# Curriculum Vitae
# Dr. Michael C. Hout

Email: mhout@nmsu.edu
Office: O'Donnell Hall, Suite 301
Phone: 575-646-3721
Cell: 412-983-5290
Website: www.michaelhout.com

College of Health, Education, and Social Transformation
New Mexico State University
Las Cruces, NM 88003-8001
PO Box 30001 / MSC 3452
ADR webpage: https://hestresearch.nmsu.edu/
LinkedIn: www.linkedin.com/in/michael-hout-b3035350

## Education

- Ph.D., Psychology (2013), Arizona State University, Tempe, AZ.
  Dissertation: *Target templates: How the precision of mental representations affects attentional guidance and decision-making in visual search.*
- M.A., Psychology (2009), Arizona State University, Tempe, AZ.
  Thesis: *Eye-movements in repeated visual search.*
- B.S., Psychology (2005), University of Pittsburgh, Pittsburgh, PA.
  Graduated *Cum Laude*, minor in Neuroscience.

## Academic Positions

- Professor, July 2024 – present: Department of Kinesiology; New Mexico State University
- Professor, August 2023 – present: Department of Psychology; New Mexico State University
- Associate Professor, August 2018 – July 2023: Department of Psychology; New Mexico State University.
- Assistant Professor, August 2013 – August 2018: Department of Psychology; New Mexico State University.
- Visiting Research Associate: Department of Psychology, University of Southampton, United Kingdom (July – August 2012).

## Executive Summary

I serve as the Associate Dean for Research in the College of Health, Education, and Social Transformation (HEST) and Interim Director of the STEM+ Education Research Institute (SERI; both at New Mexico State University). I have a joint appointment as Professor of Psychology and of Kinesiology at NMSU. My leadership experience spans multiple levels, including service as a Program Director at the National Science Foundation and Editor-in-Chief of *Attention, Perception, & Psychophysics*. In these roles, I have advanced strategic planning, faculty development, research infrastructure, and interdisciplinary collaboration, while also stewarding significant external funding portfolios. As a researcher, I direct the *Vision Sciences and Memory Laboratory* and I direct (and co-founded) the *Addison Care Virtual and Augmented Reality Laboratory*. My scholarship focuses on visual search, eye-movement behavior, similarity measurement, and memory, with broader applications to medical image perception, artificial intelligence, virtual reality, and more. I have published extensively in leading journals, contributed major stimulus databases and methodological tools, and have been awarded competitive funding from the National Institutes of Health, National Science Foundation, private partners, and other sources. To date, my portfolio includes dozens of peer-reviewed articles, invited talks across national and international venues, and grant/donation funding exceeding several million dollars.

## Leadership and Administrative Positions

Major Leadership Roles:

- Editor in Chief, January 2026 - present: *Attention, Perception, and Psychophysics.*
  - Key responsibilities: setting the journal's scientific direction, safeguarding quality and ethics, and keeping the editorial machine running smoothly. Shaping the scope and policy of the journal, triaging submissions, guiding peer review, and making final accept/reject calls. Leading the editorial board, recruitment and mentoring of editors and reviewers while monitoring performance metrics to streamline workflows. Acting as the journal's ambassador, soliciting marquee papers (e.g., special issues), speaking at conferences, and liaising with the publisher on budgets, marketing, and business strategy. When crises arise—plagiarism, data manipulation, disputes, or retractions—the EiC leads the investigation and response, ensuring the journal's integrity and reputation remain intact.
- Interim Director, November 2025 – present: STEM+ Education Research Institute; New Mexico State University.

  - Key responsibilities: The Director serves as the chief academic and administrative officer of the Institute, providing vision and leadership to advance its research mission. The Director is responsible for strategic planning, program development, and fostering an inclusive and collaborative research environment. Core responsibilities include overseeing the Institute's governance and operations; ensuring compliance with university, state, and federal policies; stewarding financial and human resources; and representing the Institute within the university and to external partners. The Director promotes faculty and student research, cultivates interdisciplinary collaborations, secures extramural funding, and advances the Institute's reputation at regional, national, and international levels. Additionally, the Director reports regularly to the appropriate university leadership, maintains transparency with the Institute's governance bodies, and ensures that the Institute's activities align with its mission, bylaws, and strategic priorities.

- Treasurer, August 2024 – present: Object Perception, Attention, and Memory conference
  - Key responsibilities: Oversee all financial operations and reporting for the annual conference name; maintain accurate financial records and ensured compliance with institutional and funding agency requirements; process payments, manage accounts payable/receivable, and coordinate reimbursements for speakers, vendors, and planning team members; work closely with the organizing committee to align financial planning with strategic goals and programming priorities; coordinate registration income and sponsorship funds, ensuring proper allocation and documentation; ensure timely tax and regulatory filings and liaise with host institution finance offices; contribute to long-term financial planning, including establishing reserve funds and evaluating conference sustainability; supported grant proposals and post-award management for conference-related funding.
- Associate Dean for Research, July 2024 – present: College of Health, Education, and Social Transformation (HEST); New Mexico State University.
  - Pertinent details about the College of HEST (as of Spring 2025): Undergraduate and graduate enrollment is more than 2,700 and 1,200, respectively (making it the second-largest college at NMSU). Students include many first-generation, part-time, and working adult students. There are currently 186 faculty spread across 9 academic units (that include Departments and Schools), plus research staff and post-doctoral researchers. The College also includes the STEM Outreach Center, a Clinic (run by the CEP Department), the Papen-Aprendamos Autism Diagnostic Center, the Edgar R. Garrett Speech/Hearing Center, the Borderland and Ethnic Studies Research Center, and more.
  - Key responsibilities: Research strategy and leadership (led strategic planning to enhance productivity and impact; foster interdisciplinary collaborations; lead new research initiatives; advocate for faculty/staff needs), faculty support and development (provide mentorship and advice; facilitate grant-writing workshops, proposal development, and training), research funding and grants administration (identify funding opportunities and assist faculty in securing grants; oversee internal research funding programs), research infrastructure and resources (advocate for new facilities, resources; use ADR budget [~$90K] to conduct new programming), external partnerships and community engagement (build relationships with industry, government agencies, and research organizations; promote research impact through public engagement and knowledge dissemination).
  - Key funding statistics: $22.23 and $12.46 million awarded in FY24/25 (10.4% and 12.7% of the University, respectively). $1.34 million in research expenditures in FY24.
- Program Director, July 2020 – July 2022: National Science Foundation
  - Primary programs duties: Perception, Action, & Cognition; and Cognitive Neuroscience
  - Secondary program duties: Integrative Strategies for Understanding Neural and Cognitive Systems; Collaborative Research in Computational Neuroscience; Stimulating Integrative Research in Computational Cognition; Real Human Intelligence; Future of Work at the Human-Technology Frontier; and Strengthening American Infrastructure.
  - Key responsibilities: Program management and leadership (oversaw funding program; developed and refined goals and solicitations), proposal evaluation and grant administration (oversaw merit review process; organized peer review panels; provided funding recommendations), research community engagement (communicated with the research community; provided mentorship and guidance to investigators; facilitated workshops/webinars to increase participation in NSF; represented NSF at conferences and meetings), program assessment (analyzed funding portfolio; contributed to NSF planning by identifying challenges/opportunities; recommended policy improvements; managed budget of approximately $8 million per year, per program).

Journal Editing (Member of Full Editorial Board):

- Associate Editor, *Attention, Perception, & Psychophysics;* July 2022 – December 2025.
- Associate Editor, *Attention, Perception, & Psychophysics;* December 2016 – December 2020.

Journal Editing (Ad Hoc):

- Editorial Board Member: *Scientific Reports,* October 2024 – present.
- Academic Editor: *Peer J,* June 2023 – March 2026.
- Consulting Editor: *The Journal of Experimental Psychology: Human Perception, & Performance,* Fall 2015 – Fall 2022.
- Consulting Editor: *The Journal of General Psychology,* Fall 2015 – Winter 2018.
- Consulting Editor: *Attention, Perception, & Psychophysics,* Fall 2015 – Winter 2016.

Laboratory Directorships:

- Director and co-founder (with Dr. Phillip Post): *Addison Care Virtual and Augmented Reality Laboratory.* New Mexico State University. May 2019 – present.
    - Secured external donations to fund laboratory construction, negotiated with NMSU to acquire a space, oversaw construction of the lab and installation of equipment, and recruited/supervised founding and ongoing lab members.
- Director: *Vision Sciences and Memory Laboratory.* New Mexico State University. August 2013 – present.

University Leadership:

- Advisory Board Member: Indirect Cost (IDC) Task Force. March 2026 – present.
    - Key responsibilities: Development of plans for "contingency fund" to offset IDC reductions across the University; development of internal IDC distribution policies; information gathering for current IDC distribution plans in the College of HEST; strategic planning for research infrastructure and IDC-supported personnel.
- Advisory Board Member: New Mexico State University Interdisciplinary Graduate Program Advisory Council. Summer 2025 – present.
    - Key responsibilities: Assist in identifying international graduate programs (IGPs) and opportunities to strengthen them; identify emerging and new IGPs; provide support for approval of new IGPs; provide appropriate policies and associated management for IGPs, including appointments of faculty, budgets, etc; establish standing committees to implement appropriate policies and procedures impacting IGPs; provide appropriate opportunities through outreach events (seminars and forums) to promote IGPs locally, regionally, and nationally; recommend Graduate Assistant support for students; review Annual Academic Departmental Assessment of student learning (AADA) submitted by IGP coordinators.
- Advisory Board Member: New Mexico State University Artificial Intelligence (AI) Council. Spring 2025 – present.
    - Key responsibilities: Provide advice and guidance on the incorporation of AI into research and education; participate in working group on the founding of an AI master's program; aid in evaluation and distribution of mini-grants for research and education; participate in faculty cluster hiring process; represent NMSU's AI efforts/interests at local and National events.
- Director: New Mexico State University, *Discovery Scholars Program*. Summer 2024 - present.
    - Key responsibilities: Implemented expansion of DSP to include the College of HEST; secured new funding from two College Deans; oversaw creation of new website and recruitment of student cohorts; conduct outreach and student mentorship; participate in all aspects of program management, maintenance, and funding oversight ($40K).
- Council of Associate Deans for Research: New Mexico State University. Summer 2024 – present.
    - Key responsibilities: recommend research policy, rules and procedures and coordinate operational research procedures among the colleges, university research institutes, and central research administration.
- Advisory Board Member: New Mexico State University, Center for Undergraduate Research and Creative Activity. Summer 2023 – present.
    - Key responsibilities: Provide guidance and service to the NMSU Honors College; participate in panels and workshops; and assist in yearly undergraduate research and creative arts conference.
- Faculty Fellow: New Mexico State University, College of Arts and Sciences Dean's Office. Fall 2023 – Summer 2024.
    - Key responsibilities: Assist the Associate Dean for Research in College programming, oversight/running of award panels, messaging/communications, faculty mentorship and career development, and outreach activities.
- Graduate Program Director: New Mexico State University, Psychology Department. Spring 2023 – Summer 2024.
    - Key responsibilities: Conducted overall program management; overhaul of graduate policies documentation; assignment of teaching assistants and other funded positions; mentorship of first-year students; compliance of faculty/students; and recruitment of new graduate students.
- Board Member (elected): New Mexico State University, Faculty Grievance Review Board. Fall 2022 – Summer 2024.
    - Key responsibilities: impartial review/evaluation of formal grievances brought by faculty/staff; participation in hearings/deliberations; rendering of fair and objective recommendations to the Provost's office.

- Associate Director: New Mexico State University, College of Arts and Sciences *Discovery Scholars Program*. Fall 2016 – Spring 2024.
    - Key responsibilities: full oversight, management, and development of an undergraduate research and creative arts program; required significant overhaul of the program relative to its prior (well-funded) structure.

External Service, Leadership Networks, and Consultancies:

- Senior Advisory Board Member: Child Safety Network (2026 – present).
- Advisory Board Member: Wellness Institute of Dona Ana County (2025 – present).
- Member: Behavior, Health, and Human Sciences collaborative of Associate Deans for Research (2024 – present).
- Member: Humanities, Arts, and Social Sciences Research Leaders Network (2024 – present).
- Consultant: Major League Baseball, Umpire Training, November 2017 – December 2018.
- Consultant: Cengage Publishers, June 2015 – July 2018.
- Conference Organizer: *Object Perception, Attention, and Memory* conference (2013 and 2014).

## Research Grants and Funding

1. **Hout, M. C.,** Del Sordo, G., & Daggett, E. (2025-2026). Human similarity data for the development of representationally aligned medical AI.
   **Agency:** NMSU Institute for Applied Practice in AI and Machine Learning.
   **Role:** PI.
   **Amount:** $24,385.
2. **Hout, M. C.,** Leonard, C., & Leber, A. (2024 - 2028). Conference: Object Perception, Attention, and Memory.
   **Agency:** National Science Foundation.
   **Role:** PI.
   **Amount:** $48,477.
3. **Hout, M. C.** (2024 – 2025). New Mexico State University (Dona Ana County) Head Start grant.
   **Agency:** Department of Health and Human Services.
   **Role:** Interim PI.
   **Amount:** $1,600,000.
4. **Hout, M. C.** (2020 - 2024). Strategy training in search: Evidence from eye movements and virtual reality.
   **Agency:** National Institutes of Health, NM IdeA Networks of Biomedical Research Excellence (INBRE), Developmental Research Project.
   **Role:** PI.
   **Amount:** $151,366.
5. Madson, L., **Hout, M. C.,** & Fraune, M. (2020). Teammate relationships formed in TBL classes provide enduring benefits.
   **Agency:** Team-based Learning Collaborative.
   **Role:** Co-PI.
   **Amount:** 5,000.
6. **Hout, M. C.,** & Post, P. (2018 - 2021). The effects of virtual reality on skill acquisition, visual search, and fall prevention.
   **Sponsor:** Electronic Caregiver.
   **Role:** PI, Co-Founder.
   **Amount:** $500,00+.
7. MacDonald, J., **Hout, M. C.,** Cruesere, C, & Choudhury, M. (2017 - 2022). Attention-guided speech enhancement for hearing impaired listeners.
   **Agency:** National Institutes of Health, National Institute on Deafness and Other Communication Disorders.
   **Role:** Collaborator.
   **Amount:** $856,933.
8. **Hout, M. C.** (2015-2017). Investigating Collaborative Search: Can Teamwork Systematically Overcome Some of the Challenges in Difficult Search?
   **Agency:** New Mexico State University, College of Arts and Sciences Discovery Scholars Award
   **Role:** PI
   **Amount:** $11,500.
9. **Hout, M. C.** (2016). "Writing To Learn" Mini-Grant.
   **Agency:** New Mexico State University, Teaching Academy.
   **Role:** PI

**Amount:** $3,000.

10. **Hout, M. C.** (2014). Guidance of search by visual and semantic similarity.
    **Agency:** New Mexico State University, College of Arts and Sciences Travel Grant.
    **Role:** PI
    **Amount:** $1000.
11. **Hout, M. C.** (2013). Overcoming the low-prevalence problem in visual search.
    **Agency:** New Mexico State University, College of Arts and Sciences Mini-grant.
    **Role:** PI
    **Amount:** $900.

## Grant Proposals Under Review or In Preparation

1. Genty, E. & **Hout, M. C.** (2026). CER: Faculty Development Microlearning: Scaling Computing Education Reform.
   **Agency:** National Science Foundation; CSR-Computer Systems Research program.
   **Role:** co-PI.
   **Amount:** $600,618, *under review.*
2. Vincent-Ruz, P., Frank, C. E., & **Hout, M. C.** (2026). Multilingual active learning in Introductory Chemistry at a Hispanic Serving Institution.
   **Agency:** William T. Grant Foundation; Reducing Inequality Priority Area.
   **Role:** co-PI.
   **Amount:** $600,000, *under review.*
3. **Hout, M. C.,** Vincent-Ruz, P., & Peel, M. (2025). Building Capacity for the STEM+ Education Research Institute (SERI).
   **Agency:** State of New Mexico, Congressionally Directed Spending proposal.
   **Role:** PI.
   **Amount:** $1,329,000, *under review.*
4. Rafferty, B., & **Hout, M. C.** (2025). Neurobiological markers of language function in healthy aging.
   **Agency:** National Institutes of Health, NM IdeA Networks of Biomedical Research Excellence (INBRE), Developmental Research Project.
   **Role:** co-PI, senior advisor.
   **Amount:** $132,958, *under review..*
5. Vanderlinden, A., **Hout, M. C.,** & Aiken, C. (2025). Gait, postural control, and visual-motor integration in children with autism spectrum disorder: A virtual reality biomechanics study.
   **Agency:** National Institutes of Health, NM IdeA Networks of Biomedical Research Excellence (INBRE), Developmental Research Project.
   **Role:** co-PI, senior advisor.
   **Amount:** $70,070, *under review.*
6. Grabman, J. & **Hout, M. C.** (2025). Eyewitness identifications as visual search: Exploring the dynamics of simultaneous lineup decisions.
   **Agency:** National Science Foundation; Perception, Action, and Cognition program
   **Role:** Co-PI.
   **Amount:** $651,440, *under review.*
7. **Hout, M. C.,** MacDonald, J., Simon, D., Aiken, C., & Post, P. (2025). A collection (4) of white papers.
   **Agency:** Army DEVCOM Analysis Center FY25.
   **Project #1 Lead/Title: Hout:** Optimizing Threat Detection via Human Intervention in Soldier-Machine Systems.
   **Project #2 Lead/Title:** MacDonald**:** Enhancing Situational Awareness through the Sonification of Multi-Agent Systems.
   **Project #3 Lead/Title:** Simon**:** Optimizing Operator Displays for Tactical Control of Semi-autonomous Swarms of RCV/UAS Agents.
   **Project #4 Lead/Title:** Post**:** Soldier Empowerment through Real-Time Physiological Feedback.
   **Status:** *Under review.*

## Notable Scholarship or Teaching Awards, Recognitions

- Primarius Academicus Socius recognition for "outstanding collaborative scientific achievements," awarded to researchers "who attained international research excellence by reaching a scientific impact in the global top 10%" while collaborating with researchers at the University of Pécs, Hungary. Awarded by the Rector, University of Pécs (Fall, 2025).

- New Mexico State University *Teaching Academy* "Workshop of the Year" award. Amount: $1,000. (Spring, 2023).
- New Mexico State University College of Arts and Sciences "*Department Star*" recognition. Honorees recognized are living individuals who have achieved state, national, or international distinction by their accomplishments and leadership, all while supporting their community and the NMSU College of Arts and Sciences. (Spring, 2023).
- National Science Foundation's "*Special Act Award*" in recognition of substantial support for extra-programmatic activities during second year of a Program Officer rotation (May, 2022).
- National Science Foundation's "*Special Act Award*" in recognition of substantial support for extra-programmatic activities during first year of a Program Officer rotation (August, 2021).
- New Mexico State University College of Arts and Sciences "*Department Star*" recognition. Honorees recognized are living individuals who have achieved state, national, or international distinction by their accomplishments and leadership, all while supporting their community and the NMSU College of Arts and Sciences. (Spring, 2019).
- Association for Psychological Science *Rising Star Award* (2017) for "outstanding psychological scientists in the earliest stages of their research careers post-PhD." Awarded by APS, the "leading international organization dedicated to advancing scientific psychology across disciplinary and geographic borders." *(Fall, 2017).*
- Donald C. Roush Award for Teaching Excellence. Awarded by the Office of the Provost, New Mexico State University. Amount: $1,000. *(Fall, 2016).*
- Early Career Award for Exceptional Achievements in Creative Scholarly Activity. Awarded by the Sixteenth Annual University Research Council, New Mexico State University. Amount: $2,000. (*Spring, 2016*).
- Outstanding Achievement Award in Scholarship. Awarded by the College of Arts and Sciences, New Mexico State University. Amount: $1,500. (*Spring, 2015*).

## Languages

- English (native), Spanish (beginner-intermediate, actively learning; Duolingo score 44 [Elementary Proficiency])

## Peer-reviewed Journal Articles (and Editorials)

*-- Supervised graduate students denoted by asterisks (*); supervised undergraduates denoted by daggers (†).*

1. Scarince, C., & **Hout, M. C.** (*in press*). Expanding the computational capabilities of Guided Search with a multidimensional scaling 'plug in'. *Quarterly Journal of Experimental Psychology.*
2. Godwin, H. J., **Hout, M. C.,** & Barnhart, A. (2025). Pay attention to eye movement behavior. *Response to Rosenholtz article ("Visual Attention in Crisis") in Behavioral and Brain Sciences.* doi: 10.1017/S0140525X25000275, e141.
3. Zsido, A. N., **Hout, M. C.,** *Daggett, E., Basler, J., Csonka, O., Yildiz, B., †Hernandez, M., *White, B., & Kiss, B. (2025). ThreatSim: A novel stimuli database of threatening and non-threatening image pairs rated for similarity. *Behavior Research Methods.* doi: 10.3758/s13428-025-02906-w.
4. Godwin, H. J., Dewis, H., Darch, P., **Hout, M. C.,** Ernst, D., Broadbent, P., Papesh, M. H., & Wolfe, J. (2025). A sharing practices review of the visual search and eye movements literature reveals recommendations for our field and others. *Behavior Research Methods, 57:*235. doi: 10.3758/s13428-025-02759-3.
5. Robbins, A., **Hout, M. C.,** Phelps, A., Schmidt, J., Godwin, H. J., & MacDonald, J. (2025). The Pictures by Category and Similarity (PiCS) Database: A multidimensional scaling database of 1200 images across 20 categories. *Behavior Research Methods, 57:212.* doi: 10.3758/s13428-025-02732-0.
6. Papesh, M. H., **Hout, M. C.,** Del Sordo, G. (2025). Eye-tracking as a lens into expertise development in visual search. *Proceedings of the ACM Symposium on Eye Tracking Research and Applications.*
7. Wang, H., Gonzalez, X., Renta-Lopez, G., Bordes, M. C., **Hout, M. C.,** Choi, S., Reece, G., & Markey, M. (2025). Breast cancer survivors' perceptual map of breast reconstruction appearance outcomes. *The Journal of Medical Imaging.* doi: 10.1117/1.JMI.12.5.051802.
8. *Daggett, E. W., & **Hout, M. C.** (2025). A tutorial review on methods for collecting similarity judgments from human observers. *Attention, Perception, & Psychophysics.* doi: 10.3758/s13414-025-03044-3.
9. *White, B. L., **Hout, M. C.,** Montelongo, J., Hernandez, A., & Serrano-Wall, F. (2024). English-Spanish Cognates in the Paivio, Yuille, and Madigan Imagery Norms Rated for Orthographic Transparency. *Sage Open, 14.* doi: 10.1177/21582440241300494.
10. *White, B., *Daggett, E., & **Hout, M. C.** (2024). Similarity ratings for basic-level categories from the Nosofsky et al. (2018) database of rock images. *Frontiers in Psychology, 15:1438901.* doi: 10.3389/fpsyg.2024.1438901.

11. Zsido, A. N., **Hout, M. C.,** March, D. S., Coelho, C. M., & Polak, J. (2024). Editorial: Towards an understanding of the cognitive mechanisms involved in threat processing and perception. Editorial at *Frontiers in Psychology,* 15:1427224. doi: 10.3389/fpsyg.2024.1427224.
12. Trafimow, D., **Hout, M. C.,** & Conway, A. R. A. (2024). A nuanced view of the extent to which narrow samples are scientifically problematic. *American Psychologist.* doi:.1037/amp0001359.
13. Madson, L., **Hout, M. C.,** & *Del Sordo, G. (2024). Students in team-based learning classes report greater belongingness. *Teaching of Psychology.* doi: 10.1177/00986283241243089.
14. Zsido, A. N., **Hout, M. C.,** †Hernandez, M., *White, B., Polak, J., Kiss, B. L., & Godwin, H. J. (2024). No evidence of attentional prioritization for threatening targets in visual search. *Scientific Reports, 14:*5651. doi: 10.1038/s41598-024-56265-1.
15. Stecina, D. T., **Hout, M. C.,** Bali, C., & Zsido, A. N. (2024). Can the processing of task-irrelevant threatening stimuli be inhibited? The role of shape and valence in the saliency of threatening objects. *Acta Psychologica, 243,* 104150. doi: 10.1016/j.actpsy.2024.104150.
16. Godwin, H. J., & **Hout, M. C.** (2023). Just say 'I don't know': Understanding information stagnation during a highly ambiguous visual search task. *PLoS One, 18(2):* e0295669. doi: 10.1371/journal.pone.0295669.
17. Trafimow, D., **Hout, M. C.,** & Conway, A. R. A. (2023). Why *Basic and Applied Social Psychology* declines demographics requirements. Editorial at *Basic and Applied Social Psychology.* doi: 10.1080/01973533.2023.2267258.
18. **Hout, M. C.,** Montelongo, J., *White, B. L., Hernandez, A., & Serrano-Wall, F. (2023). Orthographic Similarity Ratings for English-Spanish Cognates from the Academic Word List. *Frontiers in Education, 8:1225169.* doi: 10.3389/feduc.2023.1225169
19. McKinley, G., Peterson, D., & **Hout, M. C.** (2023). How does searching for faces among similar-looking distractors affect distractor memory? *Memory and Cognition.* doi: 10.3758/s13421-023-01405-7.
20. Madson, L., **Hout, M. C.,** Wheat, S., & Fraune, M. (2022). Students in team-based learning classes report greater perceived social support. *Teaching of Psychology.* doi: 10.1177/00986283221136865.
21. Zsido, A. N., Bali, C., Kocsor, F., & **Hout, M. C.** (2022). Task-irrelevant threatening information is harder to ignore compared to other valences. *Emotion.* doi: 10.1037/emo0001189.
22. **Hout, M. C.,** Papesh, M. H., *Masadeh, S., *Sandin, H., Walenchok, S., Post, P., *Madrid, J., *White, B., Guevara-Pinto, J. D., †Welsh, J., *Goode, D., *Skulsky, R., & †Cazares Rodriguez, M. (2022). The Oddity Detection in Diverse Scenes (ODDS) database: Validated real-world scenes for studying anomaly detection. *Behavior Research Methods.* doi: 10.3758/s13428-022-01816-5.
23. Zsidó, A. N., Stecina, D. T., & **Hout, M. C.** (2022). Task demands determine whether shape or arousal of a stimulus modulate competition for working memory resources. *Acta Psychologica.* doi: 10.1016/j.actpsy.2022.103523.
24. **Hout, M. C.,** *White, B., *Madrid, J., Godwin, H. J., & Scarince, C. (2021). Examining the effects of passive and active strategy use during interactive search for Lego bricks. *Journal of Experimental Psychology: Applied.* doi: 10.1037/xap0000295.
25. Zsidó, A. N., Stecina, D. T., Cseh, R., & **Hout, M. C.** (2021). The effects of task-irrelevant threatening stimuli on orienting- and executive attentional processes under cognitive load. *British Journal of Psychology, 113,* 412-433. doi: 10.1111/bjop.12540.
26. Godwin, H., J., **Hout, M. C.,** Alexdottir, K. J., Walenchok, S. C., & Barnhart, A. S. (2021). Avoiding potential pitfalls in visual search and eye movements experiments: A tutorial review. *Attention, Perception, & Psychophysics, 83,* 2753-2783. doi: 10.3758/s13414-021-02326-w.
27. Papesh, M. H., **Hout, M. C.,** Guevara Pinto, J. D., Robbins, A., †Lopez, A. (2021). Eye movements reflect the development of expertise in hybrid search. *Cognitive Research: Principles and Implications, 6(7),* 1-20. doi: 10.1186/s41235-020-00269-8.
28. Robbins, A., & **Hout, M. C.** (2020*).* Typicality guides attention during categorical search, but not universally so. *Quarterly Journal of Experimental Psychology, 73,* 1977-1999. doi: 10.1177/1747021820936472.
29. Guevara-Pinto, J., Papesh, M. H., & **Hout, M. C.** (2020). The detail is in the difficulty: Challenging search facilitates rich incidental object encoding. *Memory & Cognition, 48,* 1214-1233. doi: 10.3758/s13421-020-01051-3.
30. Walenchok, S. C., Goldinger, S. D., & **Hout, M. C.** (2020). The confirmation and prevalence biases in visual search reflect separate underlying processes. *Journal of Experimental Psychology: Human Perception and Performance, 46,* 274-291. doi: 10.1037/xhp0000714.
31. *Sabic, E., Henning, D., Myuz, H., *Morrow, A., **Hout, M. C.,** & MacDonald, J. (2020). Examining the role of eye movements during conversational listening in noise. *Frontiers in Psychology, 11:200.* doi: 10.3389/fpsyg.2020.00200.
32. Richie, D. R., *White, B., Bhatia, S, & **Hout, M. C.** (2020). The spatial arrangement method of measuring similarity can capture high-dimensional, semantic structures. *Behavior Research Methods, 52,* 1906-1928. doi: 10.3758/s13428-020-01362-y.

33. Aiken, C. A., Post, P. G., **Hout, M. C.,** & Fairbrother, J. T. (2019). Self-controlled amount and pacing of practice facilitate learning of a sequential timing task. *Journal of Sports Sciences, 38,* 405-415. doi: 10.1080/02640414.2019.1704498.
34. MacDonald, J., **Hout, M. C.,** & Schmidt, J. (2019). An algorithm to minimize the number of blocks in incomplete block designs. *Behavior Research Methods, 52,* 1459-1468. doi: 10.3758/s13428-019-01326-x.
35. Robbins, A., & **Hout, M. C.** (2019). Scene priming provides clues about target appearance that improve attentional guidance during categorical search. *Journal of Experimental Psychology: Human Perception and Performance, 46,* 220-230. doi: 10.1037/xhp0000707.
36. *Madrid, J., & **Hout, M. C.** (2019). Examining the effects of passive and active strategies on behavior during hybrid visual memory search: Evidence from eye tracking. *Cognitive Research: Principles and Applications, 4:39.* doi: 10.1186/s41235-019-0191-2.
37. Coburn, A., Kardan, O., Kotabe, H., Steinberg, J., **Hout, M. C.,** *Robbins, A., MacDonald, J., Hayn-Leichsenring, G., & Berman, M. (2019). Psychological responses to natural patterns in architecture. *Journal of Environmental Psychology, 62,* 133-145. doi: 10.1016/j.jenvp.2019.02.007.
38. *Madrid, J., Cunningham, C., *Robbins, A., & **Hout, M. C.** (2019). You're looking for what?: Comparing search for familiar, nameable objects to search for unfamiliar, novel objects. *Visual Cognition, 27,* 8-20. doi: 10.1080/13506285.2019.1577318.
39. **Hout, M. C.,** Cunningham, C., *Robbins, A., & MacDonald, J. (2018). Simulating the fidelity of data for large stimulus set sizes and variable dimension estimation in multidimensional scaling. *Sage Open, 8(2).* doi: 10.1177/2158244018773143.
40. *Scarince, C., & **Hout, M. C.** (2018). Cutting through the MADness: Expectations about what a target is doing impacts how likely it is to be found in dynamic visual displays. *The Quarterly Journal of Experimental Psychology, 71,* 2342-2354. doi: 1747021817741408.
41. **Hout, M. C.,** *Robbins, A., Godwin, H. J., Fitzsimmons, G, & *Scarince, C. (2017). Categorical templates are more useful when features are consistent: Evidence from eye-movements during search for societally important vehicles. *Attention, Perception, & Psychophysics, 79,* 1578-1592. doi: 10.3758/s13414-017-1354-1.
42. Ratiu, I., **Hout, M. C.,** Walenchok, S., Azuma, T., & Goldinger, S. D. (2017). Bilingual search advantage: Comparing visual search and eye movements in bilinguals and monolinguals. *Attention, Perception, & Psychophysics, 79,* 1695-1725. doi: 10.3758/s13414-017-1328-3.
43. Walenchok, S. C., **Hout, M. C.,** & Goldinger, S. D. (2016). Implicit object naming in visual search: Evidence from phonological competition. *Attention, Perception, & Psychophysics, 78,* 2633–2654. doi: 10.3758/s13414-016-1184-6.
44. Goldinger, S. D., Papesh, M. H., Barnhart, A. S., Hansen, W. A., & **Hout, M. C.** (2016). The poverty of embodied cognition. *Psychonomic Bulletin & Review*, *23,* 959-978. doi: 10.3758/s13423-015-0860-1.
45. **Hout, M. C.,** & Goldinger, S. D. (2016). SpAM is convenient, but also satisfying: Reply to Verheyen et al. (2016). *Journal of Experimental Psychology: General, 3,* 383-387. doi: 10.1037/xge000014.
46. Papesh, M. H., Goldinger, S. D., & **Hout, M. C.** (2016). Eye movements reveal fast, voice-specific priming. *Journal of Experimental Psychology: General, 3,* 314-337. doi: 10.1037/xge0000135.
47. Horst, J. S., & **Hout, M. C.** (2015). The Novel Object and Unusual Name (NOUN) Database: A collection of novel images for use in experimental research. *Behavior Research Methods, 48,* 1393-1409. doi: 10.3758/s13428-015-0647-3.
48. **Hout, M. C.,** Godwin, H. J., Fitzsimmons, G., *Robbins, A., Menneer, T., & Goldinger, S. D. (2015). Using multidimensional scaling to quantify similarity in visual search and beyond. *Attention, Perception, & Psychophysics, 78,* 3-20. doi: 10.3758/s13414-015-1010-6.
49. Godwin, H. J., Walenchok, S., Houpt, J. W., **Hout, M. C.,** & Goldinger, S. D. (2015). Faster than the speed of rejection: Object identification processes during visual search for multiple targets. *Journal of Experimental Psychology: Human Perception & Performance*, *41,* 1007-1020. doi: 10.1037/xhp0000036.
50. **Hout, M. C.,** Walenchok, S. C., Goldinger, S. D., & Wolfe, J. M. (2015). Failures of perception in the low-prevalence effect: Evidence from active and passive visual search. *Journal of Experimental Psychology: Human Perception & Performance, 41,* 977-994. doi: 10.1037/xhp0000053.
51. Kardan, O., Demiralp, E., **Hout, M. C.,** Hunter, M., Karimi, H., Hanayik, T., Yourganov, G., Jonides, J., & Berman, M. G. (2015). Is the preference of natural versus man-made scenes driven by top-down or bottom-up processing? *Frontiers in Psychology, 6*, 1-13. doi: 10.3389/fpsyg.2015.00471.
52. **Hout, M. C.,** & Goldinger, S. D. (2015). Target templates: The precision of mental representations affects attentional guidance and decision-making in visual search. *Attention, Perception & Psychophysics, 77*, 128-149. doi: 10.3758/s13414-014-0764-6.
53. Berman, M. G., **Hout, M. C.,** Kardan, O., Hunter, M., Yourganov, G., Henderson, J. M., Hanayik, T., Karimi, H., & Jonides, J. (2014). The perception of naturalness correlates with low-level visual features of environmental scenes. *PLoS ONE, 9:* e114572. doi: 10.1371/journal.pone.0114572.

54. **Hout, M. C.,** Goldinger, S. D., & Brady, K. J. (2014). MM-MDS: A multidimensional scaling database with similarity ratings for 240 object categories from the Massive Memory picture database. *PLoS ONE, 9:* e112644. doi: 10.1371/journal.pone.0112644.
55. McFrederick, Q. S., Wcislo, W. T., **Hout, M. C.,** & Mueller, U. G. (2014). Host developmental stage, not host sociality, affects bacterial community structure in socially polymorphic bees. *FEMS Microbiology Ecology*, *88,* 398-406. doi: 10.1111/1574-6941.12302.
56. Godwin, H., **Hout, M. C.,** & Menneer, T. (2014). Visual similarity is stronger than semantic similarity in guiding visual search for numbers. *Psychonomic Bulletin & Review, 21,* 689-695. doi: 10.3758/s13423-013-0547-4
57. **Hout, M. C.,** Goldinger, S. D., & Ferguson, R. W. (2013). The versatility of SpAM: A fast, efficient spatial method of data collection for multidimensional scaling. *Journal of Experimental Psychology: General, 142*, 256-281. doi: 10.1037/a0028860.
58. **Hout, M. C.,** Papesh, M. H., & Goldinger, S. D. (2012). Multidimensional scaling. *Wiley Interdisciplinary Reviews (WIREs): Cognitive Science, 4,* 93-103. doi: 10.1002/wcs.1203.
59. **Hout, M. C.,** & Goldinger, S. D. (2012). Incidental learning speeds visual search by lowering response thresholds, not by improving efficiency: Evidence from eye movements. *Journal of Experimental Psychology: Human Perception and Performance, 38,* 90-112. doi: 10.1037/a0023894.
60. Papesh, M. H., Goldinger, S. D., & **Hout, M. C.** (2012). Memory strength and specificity revealed by pupillometry. *International Journal of Psychophysiology, 83,* 56-64. doi: 10.1016/j.ijpsycho.2011.10.002.
61. Homa, D., **Hout, M. C.,** Milliken, L., & Milliken, A. M. (2011). Bogus concerns about the false prototype enhancement effect. *Journal of Experimental Psychology: Learning, Memory and Cognition, 37,* 368-377. doi: 10.1037/a0021803.
62. **Hout, M. C.,** & Goldinger, S. D. (2010). Learning in repeated visual search. *Attention, Perception & Psychophysics, 72,* 1267-1282. doi: 10.3758/APP.72.5.1267.

## Edited Collections

1. **Hout, M. C.,** Merabet, L. B., & Vine, S. (*in progress*). Eye-tracking in virtual reality. Article collection in progress at *Scientific Reports.*
2. Zsido, A. N., **Hout, M. C.,** Coelho, C. M., March, D. S., & Polak, J. (2024). Towards an understanding of the cognitive mechanisms involved in threat processing and perception. Research Topic (10 articles) at *Frontiers in Psychology.* https://www.frontiersin.org/research-topics/54567/towards-an-understanding-of-the-cognitive-mechanisms-involved-in-threat-processing-and-perception/articles

## Peer-reviewed Conference Proceedings

-- *Supervised graduate students denoted by asterisks (*)*

1. Richie, D. R., *White, B., Bhatia, S., & **Hout, M. C.** (2020). The spatial arrangement method of measuring similarity can capture high-dimensional, semantic structures. *Proceedings Paper presented at the 42nd Annual Meeting of the Cognitive Science Society in Toronto, Canada* (July, 2020).
2. *Robbins, A., & **Hout, M. C.** (2015). Categorical templates: Typical category members are found and identified quickly during word-cued search. *Summary published in* Object Perception, Attention, and Memory (OPAM) 2015 Conference Report, *Visual Cognition, 23,* 817-821. doi: 10.1080/13506285.2015.1093247.
3. Moher, J., **Hout, M. C.,** Lustig Michal, A., & Godwin, H. (2014). Object Perception, Attention and Memory 2014 Conference Report (22nd Annual Meeting, Long Beach, California), *Visual Cognition, 22,* 1013-1049. doi: 10.1080/13506285.2014.974900.
4. Cosman, J., Mack, M., **Hout, M. C.,** & Moher, J. (2013). Object Perception, Attention and Memory 2013 Conference Report (21st Annual Meeting, Toronto, Ontario, Canada), *Visual Cognition, 21,* 673-725. doi: 10.1080/13506285.2013.849902.
5. Walenchok, S. C., **Hout, M. C.,** & Goldinger, S. D. (2013). What does that picture sound like to you?: Oculomotor evidence for phonological competition in visual search. *Summary published in* Object Perception, Atttention, and Memory (OPAM) 2013 Conference Report, *Visual Cognition, 21,* 718-722. doi: 10.1080/13506285.2013.844970.
6. **Hout, M. C.,** & Goldinger, S. D. (2011). Multiple-target search increases workload but enhances incidental learning: A computational modeling approach to a memory paradox. *Summary published in* Object Perception, Attention, and Memory (OPAM) 2011 Conference Report, *Visual Cognition,* 18-21. doi: 10.1080/13506285.2011.618773.

## Book Chapters

*-- Supervised graduate students denoted by asterisks (*)*

1. Papesh, M. H., Del Sordo, G. C., & **Hout, M. C.** (*in press*). Eye-tracking and pupillometry. *Cognitive Neuroscience Methods*.
2. *Daggett, E., & **Hout, M. C.** (2026). Modeling similarity using multidimensional scaling. *Encyclopedia of Measurement in Social Sciences (2nd Edition)*.
3. Guevara Pinto, J., & **Hout, M. C.** (2024). The utility of pupillometric methods for studying visual search. *Modern Pupillometry: Cognition, Neuroscience, and Practical Applications* (Eds. M. H. Papesh and S. D. Goldinger).
4. *Sams, R., & **Hout, M. C**. (2017). Understanding the dual-process theory of decision-making. In *Advances in Psychology Research*, Volume 115. Nova Science Publications, Hauppauge, NY.
5. *Madrid, J., *Robbins, A., *Scarince, C., Godwin, H. J., & **Hout, M. C.** (2016). Visual spatial attention: What it is, how it works, and what it does for us. In *Spatial Attention: Function, Influences and Performance*. Nova Science Publications, Hauppauge, NY.
6. *Scarince, C., *Madrid, J., **Hout, M. C.,** & Trafimow, D. (2015). Signal detection theory: Overview and recent considerations. In *Advances in Psychology Research*, Volume 112 (pp. 129 – 150). Nova Science Publications, Hauppauge, NY.

## Science communication (Publications in the Popular Media, Science Journalism, General Science Outlets, Podcast Appearances)


*-- Supervised graduate students denoted by asterisks (*); supervised undergraduates denoted by daggers (†).*

### *Popular Science/Media Outlets and Science Journalism:*

1. Robbins, A., *Daggett, E., & **Hout, M. C.** (2026). AI doesn't think the way that you do, and that could be a problem. *The Conversation.* Published 3/11/2026: https://theconversation.com/ai-doesnt-see-the-way-that-you-do-and-that-could-be-a-problem-when-it-categorizes-objects-and-scenes-271481
2. *Robbins, A., & **Hout, M. C.** (2015). Look into my eyes. *Scientific American MIND magazine, 26,* 54-61. Link: http://www.scientificamerican.com/article/new-technologies-track-our-eyes-and-read-our-minds/
3. **Hout, M. C.,** & Goldinger, S. D. (2013). To see or not to see? *Scientific American MIND Magazine*, *24,* 60-67. Link: http://www.scientificamerican.com/article.cfm?id=how-your-eyes-search-scene&WT.mc_id=SA_MND_20130606


### *Public Lectures and Panel Discussions:*

1. **Hout, M. C.** (2026). Understanding the mind through extraordinary brains. *Invited lecture in the "Science on Screen" series conducted by the Mesilla Valley Film Society* (Fountain Theatre, Mesilla, NM; May, 2026).
2. **Hout, M. C.** (2026). AI everywhere: Empowering educators and students. *Invited Panel moderation at the AI & Energy conference put on by the Mesilla Valley Economic Development Alliance (Las Cruces, NM; January 2026).*

### *Podcast appearances:*

1. "How to find lost objects: 6 techniques that really work." Guest appearance on the National Public Radio (NPR) *Life kit* podcast. (Aired October 31st, 2024). https://www.npr.org/2024/10/31/nx-s1-5050813/expert-techniques-to-find-missing-objects?fbclid=IwY2xjawGUlbdleHRuA2FlbQIxMQABHVULFwGDnQ55-CZjhcCBizyZofnje8eqcPLuEoOvyRdwiMe2sac4NH8qAg_aem_IhzIeYEpyvBNKGXvfP_PWA
2. "An Eye for Cognitive Innovation." Guest appearance on *The Neuro Transmission* podcast. (Season 2, Episode 14, 2018). https://itunes.apple.com/us/podcast/neuro-transmission-podcast-station/id1328941226?mt=2
3. "Cognitive Psychology: Flying Below the Radar." Guest appearance on *The Neuro Transmission* podcast. (Season 2, Episode 13, 2018). https://itunes.apple.com/us/podcast/neuro-transmission-podcast-station/id1328941226?mt=2
   **Podcast website:** https://www.cengage.com/discipline-psychology/neurotransmission-podcast

*Science Writing for a Young Audience:*

1. #Del Sordo, G., & **Hout, M. C.** (*in press*). The pupils tell all: How our eyes reveal how well we can imagine. *Frontiers for Young Minds.*
2. †Millsap, V., **Hout, M. C.,** & Zsido, A. N. (2026). Facing fear: The science behind the development of phobias. *Frontiers for Young Minds. 14:1559505.* doi: 10.3389/frym.2026.1559505.
3. *Mathis, A. P., Conway, A. R. A., & **Hout, M. C.** (2025). Can you picture it? People vary in their ability to create mental pictures. *Frontiers for Young Minds*, 13:1478794. doi: 10.3389/frym.2025.1478794.
4. Pathare, M., & **Hout, M. C.** (2024). Seeing eye to eye: How culture affects our understanding of others' minds. *Frontiers for Young Minds, 12:1290682.* doi: 10.3389/frym.2024.1290682.
5. Oberhauser, C., & **Hout, M. C.** (2024). Single-cell recording: An inside look at a brain cell's work. *Frontiers for Young Minds, 12:1267709.* doi: 10.3389/frym.2024.1267709.
6. O'Leary, S., & **Hout, M. C.** (2024). What can the eyes tell us about schizophrenia? *Frontiers for Young Minds, 12:1274188.* doi: 10.3389/frym.2024.1274188.
7. Martinez, J. E., & **Hout, M. C.** (2024). Uncovering the mental effort of reading with eye-tracking technology. *Frontiers for Young Minds, 12:1237161.* doi: 10.3389/frym.2024.1237161.
8. *Daggett, E., & **Hout, M. C.** (2024). What is similarity and how can we measure it? *Frontiers for Young Minds, 12:1239117.* doi: 10.3389/frym.2024.1239117
9. Berger, D., & **Hout, M. C.** (2024). Manipulating the activity of your brain using magnets. *Frontiers for Young Minds, 12:1248252.* doi: 10.3389/frym.2024.1248252.
10. Zsido, A. N., & **Hout, M. C.** (2023). What happens in your brain when you spot something scary? *Frontiers for Young Minds, 11:1032968.* doi: 10.3389/frym.2023.1032968.
11. **Hout, M. C.,** *White, B., *Madrid, J., Godwin, H. J., & Scarince, C. (2022). Looking for LEGO bricks!: How we can find things with our eyes and our hands. *Frontiers for Young Minds, 10:814043.* doi: 10.3389/frym.2022.814043.
12. Zsidó, A. N., & **Hout, M. C.** (2022). Your smile caught my eye: Why do emotional things catch and hold our attention? *Frontiers for Young Minds, 10:781748.* doi: 10.3389/frym.2022.781748.
13. Robbins, A., & **Hout, M. C.** (2021). Searching for the unknown: How your surroundings provide clues about difficult-to-spot items. *Frontiers for Young Minds, 9:587865.* doi: 10.3389/frym.2021.587865.
14. Guevara Pinto, J. D., Papesh, M. H., & **Hout, M. C.** (2021). Learning by accident: Sometimes memory mistakes are not totally wrong. *Frontiers for Young Minds, 9:588337.* doi: 10.3389/frym.2021.588337.
15. *Sabic, E., **Hout, M. C.,** MacDonald, J. A., Henning, D., Myuz, H., & *Morrow, A. (2021). Understanding speech with our ears and eyes. *Frontiers for Young Minds, 9:569624.* doi: 10.3389/frym.2021.569624.
16. Cochran, S., & **Hout, M. C.** (2021). Leveling up injury recovery: Video games for good! *Frontiers for Young Minds, 9:552774.* doi: 10.3389/frym.2021.552774.
17. Berger, M., Henning, D., & **Hout, M. C.** (2021). Working out your pain: Why physically intense exercise is painful. *Frontiers for Young Minds, 9:566420.* doi: 10.3389/frym.2021.566420.
18. Del Sordo, G., Moyer, E., *Goode, D., & **Hout, M. C.** (2020). "This will only hurt for a minute": How our brain plans for pain. *Frontiers for Young Minds, 8:539649.* doi: 10.3389/frym.2020.539649.
19. Robbins, A., & **Hout, M. C.** (2019). Using your brain (not just your eyes) to find lost objects. *Frontiers for Young Minds 7:89.* doi: 10.3389/frym.2019.00089.
20. Berg, M., *Morrow, A., & **Hout, M. C.** (2019). Wake up, brain!: Using electricity to think and feel differently. *Frontiers for Young Minds, 7:62.* doi: 10.3389/frym.2019.00062.
21. Myuz, H., & **Hout, M. C.** (2019). Trick, or treat?: How artificial sweeteners fool the brain and body. *Frontiers for Young Minds, 7:51.* doi: 10.3389/frym.2019.00051.
22. †Torres, A., & **Hout, M. C.** (2019). Pupils: A window into the mind. *Frontiers for Young Minds. 7:3.* doi: 10.3389/frym.2019.00003.
23. *Madrid, J., & **Hout, M. C.** (2018). Eye spy: Why we need to move our eyes to gather information about the world. *Frontiers for Young Minds. 6:71.* doi: 10.3389/frym.2018.00071.
24. Henning, D., *Sabic, E., & **Hout, M. C.** (2018). Hear and there: Sounds from everywhere! *Frontiers for Young Minds.6:63.* doi: 10.3389/frym.2018.00063.
25. *Penn, R., & **Hout, M. C.** (2018). Making reality virtual: How VR "tricks" your brain. *Frontiers for Young Minds, 6:62.* doi: 10.3389/frym.2018.00062.

## Manuscripts Under Review/Revision

*-- Supervised graduate students denoted by asterisks (*); supervised undergraduates denoted by daggers (†); supervised post-docs by hashtags (#)*

1. Kiss, B. L., #Del Sordo, G., **Hout, M. C.,** Kocsor, F., & Zsido, A. N. (*being revised to resubmit*). Anticipatory attentional avoidance in learned threat associations. Submitted to *Psychological Research.*
2. Dewis, H., Godwin, H., Houpt, J., **Hout, M. C.,** & Howsley, L. (*being revised to resubmit*). Low prevalence targets are primarily missed due to mind wandering. Submitted to *Attention, Perception, & Psychophysics.*
3. Weatherford, D. R., Wieters, N. H., Pardo, R. M., *Daggett, E., *White, B., Morquecho, A., & **Hout, M. C.** (*being revised to resubmit*). Multidimensional similarity spaces for the FACETS Database: Faces Across Cameras, Emotions, Time, and Settings. Submitted to *PLoS One.*
4. #Del Sordo, G, Dewis, H., Darch, P., **Hout, M. C.,** & Godwin, H. (*under review*). 'It makes sense to me': Examining data file column names in the visual cognitive literature. Submitted to *Behavior Research Methods.*
5. *Mathis, A. P., & **Hout, M. C.** (*under review*). Mental imagery's context-dependent role in visual search efficiency. Submitted to *Journal of Experimental Psychology: General.*
6. #Del Sordo, G., Papesh, M. H., †Alonso, M., & **Hout, M. C.** (*under review*). Beyond vigilance: A dual-process perspective on visual sustained attention. Submitted to *Cognitive, Affective, and Behavioral Neuroscience.*
7. #Del Sordo, G., Dewis, H., Deverill, E., Mane, P., **Hout, M. C.,** & Godwin, H. J. (*under review*). A comment on Roth et al.'s (2024) "Gaze behavior reveals expectations of potential scene changes." Submitted to *The Replication Game.*

## Invited Symposia, Talks, Workshops, and Panels (External)

*-- Supervised graduate students denoted by asterisks (*); supervised undergraduates denoted by daggers (†).*

1. **Hout, M. C.** (2025). Operational resilience: How can we re-envision and re-seed partnerships to support HASS research and creative activity. *Invited Panel participation at the Humanities, Arts, & Social Sciences Research Leaders Network Meeting 2025 (Washington, DC; September, 2025*).
2. **Hout, M. C.** (2025). Overview of the *Vision Sciences and Memory Lab* and research in the College of HEST. *Invited presentation to the Los Alamos National Labs and New Mexico Consortium (Los Alamos, NM; February, 2025).*
3. **Hout, M. C.,** Papesh, M. H., *Del Sordo, G., *Mathis, A., & *White, B. (2024). Use-inspired basic research approaches to studying medical image perception. *Invited lecture presented to the Cognitive and Neuroscience brownbag at the University of Nebraska-Lincoln (virtual; November, 2024)*.
4. **Hout, M. C.,** Papesh, M. H., *Penn, R., †Stutesman, E., & †Hernandez, J. (2024). Learning to find anomalies: A use-inspired basic research approach to studying medical image perception. *Invited lecture presented to the University of New Mexico School of Medicine Center for Brain Recovery and Repair (Albuquerque, NM; April 2024).*
5. **Hout, M. C.** (2024). Visual search: Using science to understand how we find our keys, how radiologists find tumors, how search and rescue responders find missing persons, and how airport security finds contraband. *Invited public science lecture presented to the Las Cruces Museum of Nature and Science (Las Cruces, NM; March 2024).*
6. **Hout, M. C.** (2022). Strategy training and perceptual learning approaches to improving medical image perception. *Invited research talk presented to the Biomedical Seminar series at Northern New Mexico College (virtual; November, 2022).*
7. **Hout, M. C.** (2022). Modeling similarity for tighter experimental control: An overview, examples from vision science, and helpful resources. *Invited research **talk** presented to the George Washington University Mind-Brain Institute Lecture Series (Washington, DC; April 2022).*
8. **Hout, M. C.** (2022). A primer on federal funding, service, and employment. *Invited **talk** presented to the Psychology Department at Old Dominion University (virtual; April, 2022).*
9. **Hout, M. C.** (2022). Modeling similarity to conduct better vision science: An overview with helpful resources. *Invited research **talk** presented to the Department of Psychological and Brain Sciences at the University of Delaware (Newark, Delaware; April 2022).*
10. **Hout, M. C.** (2021). **Panelist** for *Object Perception, Attention, and Memory* meeting, Career Panel (virtual; November, 2021).
11. **Hout, M. C.** (2021). Thoughts on federal funding and employment. *Invited **talk** presented to the Psychology Department at the University of Utah (virtual; October, 2021)*.
12. Godwin, H. J., & **Hout, M. C.** (2021). Human visual cognition and decision making. *Invited research **talk** presented at the Turing Visualization Symposium, Newcastle, UK (virtual; September, 2021).*

13. **Hout, M. C.** (2021). Modeling similarity to conduct better vision science: An overview with helpful resources. *Invited research **talk** presented to the Departments of Psychology and Neuroscience at University of California, Davis (virtual; May, 2021).*
14. **Hout, M. C.** (2021). **Panelist** for *Eye Tracking Research and Applications* (virtual) conference, Doctoral Symposium Mentor Panel (May, 2021).
15. Papesh, M. H., & **Hout, M. C.** (2020). **Panelist** for El Paso Community College workshop on publishing (virtual; November, 2020).
16. **Hout, M. C.,** Guevara Pinto, J., & Papesh, M. H. (2019). The detail is in the difficulty: Challenging search facilitates incidental encoding of object's perceptual details. *Invited research **talk** presented to the Department of Psychology at Macquarie University (Australia; July 2019).*
17. **Hout, M. C.,** Guevara Pinto, J., & Papesh, M. H. (2019). The detail is in the difficulty: Challenging search facilitates incidental encoding of object's perceptual details. *Invited research **talk** presented to the Department of Psychology at the University of Wollongong (Australia; July 2019).*
18. **Hout, M. C.,** & *Madrid, J. (2019). Examining passive and active search strategies during hybrid visual memory search: Evidence from eye movements. *Invited research **talk** presented to the Centre for Visual Cognition (in the Psychology department) at the University of Southampton (England; April, 2019).*
19. **Hout, M. C.,** & *Madrid, J. (2018). Passive search strategies improve attentional guidance and object recognition during demanding visual search. *Invited (and funded) **symposium** presented at the 4th Symposium on Visual Search and Selective Attention in Munich, Germany (July, 2018).*
20. **Hout, M. C.,** & *Madrid, J. (2018). Passive search strategies improve attentional guidance and object recognition during demanding visual search. *Invited (and funded) **talk** presented to the Psychology department at the University of Chicago (May, 2018).*
21. **Hout, M. C.** (2017). Using multi-dimensional scaling to conduct better experiments in cognitive science. *Invited (and funded) **symposium** talk presented at the Southwestern Psychological Association meeting; San Antonio, TX (March, 2017).*
22. **Hout, M. C.,** †Lopez, A., *Robbins, A., & Papesh, M. H. (2017). Becoming an expert at difficult visual search: Experience fine-tunes mental representations of target categories. *Invited (and funded) research **talk** presented to the Psychology department at the University of Arizona (February, 2017).*
23. **Hout, M. C.** (2016). An introductory workshop on multidimensional scaling: What it is, what it can do for you, and how to use it properly. *Invited (and funded) **workshop** presented to the Psychology department at Louisiana State University (November, 2016).*
24. **Hout, M. C.** (2016). Mental representations in visual search: Basic research informing the real-world application of vision science. *Invited (and funded) research **talk** presented to the Psychology department at California State University Polytechnic, Pomona (February, 2016).*
25. **Hout, M. C.** (2015). Failures of perception in the low-prevalence effect: Evidence from active and passive visual search. *Invited research **talk** presented to the Psychology department at the University of Texas, El Paso (May, 2015).*
26. **Hout, M. C.** (2013). The intersection of memory and attention in visual search. *Invited (and funded) research **talk** presented to the Psychology department at New Mexico State University (March, 2013).*
27. **Hout, M. C.** (2012). Small perceptual differences cause big problems when they make your "target template" imprecise. *Invited (and funded) research **talk** presented to the Psychology department at the University of Iowa (October, 2012).*
28. **Hout, M. C.** (2012). Multidimensional scaling: An introductory workshop. *Invited **workshop** presented to the Psychology department at the University of Southampton (England; July 2012).*
29. **Hout, M. C.** (2012). RSVPupillometry: Visual search examined using behavioral data, exemplar modeling and psychophysiology. *Invited research **talk** presented to the Centre for Visual Cognition (in the Psychology department) at the University of Southampton (England; July, 2012).*
30. **Hout, M. C.** (2012). RSVPupillometry: Visual search challenges examined using an exemplar model and psychophysiology. *Invited research **talk** presented to Jeremy Wolfe's Visual Attention Seminar Series in Brigham and Women's Hospital, Harvard Medical School (June, 2012).*
31. **Hout, M. C.** (2010). Eye movements in repeated visual search. *Invited research **talk** presented to the Learning Research and Development Center at the University of Pittsburgh (April, 2010).*

## Invited Talks and Workshops (Internal)

1. **Hout, M. C.,** & Layfield, A. (2025). Planning NSF Broader Impacts in 2025. *Workshop presented to the Colleges of HEST and A&S (Las Cruces, NM; April, 2025).*

2. **Hout, M. C.** (2024). NSF grant writing and opportunities. *Presented at the 2024 Postdoc Association Symposium (Las Cruces, NM; September, 2024).*
3. **Hout, M. C.** (2023). An overview of National Science Foundation funding. *Workshop presented to the New Mexico State University* HSI-STEM Hub program. (*Las Cruces, NM; May, 2023).*
4. **Hout, M. C.** (2022). Navigating NSF: Breaking down barriers. *Workshop (presented at the New Mexico State University* Teaching Academy. (*Las Cruces, NM; October, 2022).*
5. **Hout, M. C.** (2018). Writing to learn? It's not just for writing courses. *Panelist at the 2018 NMSU Assessment Conference: Writing to Think. (Las Cruces, NM; April, 2018).*
6. **Hout, M. C.** (2016). Watching your eyes: How gaze-tracking technology lets us control gadgets, diagnose disease, and much more. *New Mexico State University, Salon Discovery Series. (Las Cruces, NM; March, 2016).*
7. Walenchok, S. C., **Hout, M. C.,** Goldinger, S. D., & Wolfe, J. M. (2013). Hiding in plain sight: Examining the low prevalence effect in visual search. *Research **talk** presented at the 4th Annual Arizona State / University of Arizona Cognitive Conclave (Tucson, Arizona; December, 2013; Read by Steve Walenchok).*
8. **Hout, M. C.** (2013). Vision happens in the brain, not the eyes. *New Mexico State University, College of Arts & Sciences Colloquium Series on Science and Society. (Las Cruces, NM; November 2013).*
9. **Hout, M. C.** (2012). Target "templates": Examining the precision and stability of mental representations during visual search. *Research **talk** presented at the 3rd Annual Arizona State / University of Arizona Cognitive Conclave (Tempe, Arizona; December, 2012).*
10. **Hout, M. C.** (2011). SQuEaL (Scanning Quiet Echoes and Learning): An exemplar model used to investigate a memory paradox. *Research **talk** presented at the 2nd Annual Arizona State / University of Arizona Cognitive Conclave (Tucson, Arizona; December, 2011).*
11. **Hout, M. C.** (2009). Introduction to E-Prime. *Invited methodology **workshop** presented to the Social Psychology department at Arizona State University (March, 2009).*

## Unfunded Grant Proposals

1. Cezarotta, M., **Hout, M. C.,** Bundy, C. S., Chamberlin, B., & Martinez, P. N. (2024). Out from behind the microscope: Expanding how students can learn to identify insects using virtual reality.
   **Agency:** National Science Foundation; DRL – Cyberlearn & Future Learn Tech.
   **Role:** Co-PI.
   **Amount:** $899,998, *not awarded.*
2. Hernandez, A., **Hout, M. C.,** Simon, D., & Montelongo, J. (2024). Investigating the Facilitating Effect of English-Spanish Cognates on Non-Cognate Learning: Phrasal Verbs, Compound Words, and Idioms.
   **Agency:** Department of Education; Education Research, Development, and Dissemination.
   **Role:** Co-PI.
   **Amount:** $1,691,662, *not awarded.*
3. Shane, M., May, N., McVann, L., Bittner, L., & **Hout, M. C.** (2024). Nurturing roots: Comprehensive care for Hispanic, Indigenous, and underserved childbearing women in borderland communities.
   **Agency:** United Health Foundation.
   **Role:** Co-PI.
   **Amount:** $2,000,000, *not awarded.*
4. Hernandez, A., **Hout, M. C.,** Wang, T., & Montelongo, J. (2023). Learning and memory of English-Spanish cognates, verb phrases, compound words, and idioms: Exploratory studies.
   **Agency:** Department of Education; Education Research, Development, and Dissemination.
   **Role:** Co-PI.
   **Amount:** $1,688,739, *not awarded.*
5. Lavoie, R., **Hout, M. C.,** & Keleher, L. W. (2023). A danger and an opportunity of using artificial intelligence tools in creative tasks.
   **Agency:** National Endowment for the Humanities.
   **Role:** Co-PI.
   **Amount:** $150,000, *not awarded.*
6. Hernandez, A., **Hout, M. C.,** & Montelongo, J. (2022). Language study through English-Spanish Cognate Vocabulary: Training workshop and resources for education researchers.
   **Agency:** Institute of Education Sciences (Methods Training for Education Researchers).
   **Role:** Co-PI.

**Status:** Expression of Interest submitted, *not invited.*

7. Holliman, N., Godwin, H., Archambault, D., Shafik, R., Simperl, E., **Hout, M. C.,** Kawai, T., Coltekin, A., & Weber, J. (2022). Visualization Science for Trustworthy AI (ViSTAI).
   **Agency:** Engineering and Physical Sciences Research Council (United Kingdom Research and Innovation), Turing AI Fellowship.
   **Role:** Sub-contractor.
   **Status:** Expression of Interest submitted, *not invited.*
8. Godwin, H. J., **Hout, M. C.,** Wolfe, J. M., Papesh, M. H., Wu, C-C., & Ernst, D. (2022). Misses in visual search.
   **Agency:** Economic and Social Research Council (United Kingdom Research and Innovation), Secondary Data Analysis Initiative (SDAI).
   **Role:** Co-PI.
   **Status:** Expression of Interest submitted; *not invited.*
9. Post, P., **Hout, M. C.,** & Papesh, M. H. (2020). The effects of virtual and augmented reality on reducing older adult falls risks.
   **Agency:** National Institutes of Health, NM IdeA Networks of Biomedical Research Excellence (INBRE).
   **Role:** Collaborator.
   **Amount:** $300,000. *Not awarded.*
10. Ratiu, I., **Hout, M. C.,** Azuma, T., & MacDonald, J. (2020). The impact of mild traumatic brain injuries and naturalistic auditory distraction on reading: An eye-tracking investigation.
    **Agency:** National Institutes of Health.
    **Role:** Collaborator.
    **Amount:** $428,076. *Not awarded.*
11. MacDonald, J., & **Hout, M. C.** (2020). Control mechanisms for spatial filtering in hearing aids.
    **Agency:** Alzheimer's Research UK, Discovery Research Grant 2020.
    **Role:** Co-PI.
    **Amount:** £200,000. *Not awarded.*
12. **Hout, M. C.,** & MacDonald, J. (2019). Auditory augmented reality: A flexible, general purpose listening enhancement algorithm controlled by real-time eye gaze.
    **Agency:** Sony, Faculty Innovation Award, Human Computer Interaction (System Technology for AR/VR/MR).
    **Role:** PI.
    **Amount:** $100,000. *Not awarded.*
13. Fraune, M. R., Dehghan-Niri, E., & **Hout, M. C.** (2019). Group effects on trust, moral decision-making, and performance related to Artificial Intelligence (AI) across broad applications and cultures.
    **Agency:** Department of Defense, Minerva Research Initiative.
    **Role:** Co-PI.
    **Amount:** $1,343,580. *Not awarded.*
14. Madson, L., **Hout, M. C.,** & Fraune, M. (2018). Teammate relationships formed in TBL classes provide enduring benefits. Team-based learning collaborative research grant.
    **Agency:** Team-Based Learning Collaborative.
    **Amount:** $2,600. *Not awarded.*
15. Madson, L., **Hout, M. C.,** & Fraune, M. (2018). Team-based learning fosters enduring supportive peer relationships. Scholarship of Teaching and Learning small grant.
    **Agency:** Association for Psychological Science, Teaching Fund small grant.
    **Amount:** $2,500. *Not awarded.*
16. **Hout, M. C.,** Post, P., MacDonald, J., Fisher, D., & Lau, K. S. (2017). Using Virtual Reality as a Tool to Empirically Study Search and Rescue Performance. Interdisciplinary IMPACT Mini-grant.
    **Agency:** New Mexico State University, Offices of the Vice President for Research and the Provost.
    **Amount:** $40,000. *Not awarded.*
17. **Hout, M. C.,** & Papesh, M. H. (2016). Using shared gaze to create an automated training model for search.
    **Agency:** Transportation Security Agency (TSA), Transportation Security Innovative Concepts.
    **Role:** Principle Investigator.
    **Amount:** $1,013,728. ($795,797 to NMSU). *Not awarded.*
18. Multi-team proposal. (2016). FAA Center of Excellence for Technical Training and Human Performance program proposal.
    **Agency:** Federal Aviation Administration.
    **Role:** Collaborator.
    **Amount:** ~1,000,000. *Not awarded.*

19. **Hout, M. C.** (2012). Overcoming the low-prevalence effect in visual search.
    **Agency**: NIH, National Eye Institute; NRSA F32.
    **Sponsor**: Jeremy Wolfe, Brigham & Women's Institute, Harvard Medical School.
    **Outcome:** *Reviewed, not awarded, not revised (because I accepted a faculty position).*

## Appearances in the Media (Popular Science Outlets, Interviews, News, etc.)

*Magazine stories and interviews:*

1. Interviewed by NMSU *Data Science and Application Center* about data science in cognition. Full interview (September, 2021): https://datascience.nmsu.edu/news-events/2021/09/interview-with-michael-hout.html
2. Interviewed by *Nature Index* about the importance of and what can be gained by doing science communication for a more general and younger audience. The interview was about the recent set of papers our group had written for the journal *Frontiers for Young Minds*. Full story (April, 2021): https://www.natureindex.com/news-blog/lessons-writing-a-science-paper-kids-journal-frontiers-young-minds
3. Interviewed by the *Association for Psychological Science* about my move to the *National Science Foundation* and my work as a Program Director. Full story (October 2020): https://www.psychologicalscience.org/observer/hout?fbclid=IwAR3OTltxnSyYGsXXV-mq3K1HTqfoBTjmnPy_lbRa-ai2EX_Dai0j1gjc9FA
4. Our 2014 *PLoS One* article was discussed in an article by CityLab (from *The Atlantic* magazine). Appeared January 5th, 2015. Link: http://www.citylab.com/design/2015/01/what-makes-nature-look-natural/384202/
5. Our research was discussed in "Study Looks at How Motorists Pay Attention to School Buses" by Ryan Gray. Appears in the March 28th, 2014 news report by *School Transportation News*. Link: http://www.stnonline.com/home/latest-news/5988-study-looks-at-how-motorists-pay-attention-to-school-buses

*Stories in the news:*

1. EIN Presswire has run a story discussing my role as Advisor to the Child Safety Network, and my role as Chief Scientific Investigator on their work to combat schoolbus stop arm violations. Link: https://www.einpresswire.com/article/897304489/child-safety-network-csn-appoints-dr-michael-c-hout-ph-d-lead-investigator-to-combat-school-bus-stop-arm-runners
2. NMSU News has run a story about our efforts to create collaborations with UTEP researchers on topics in brain and behavioral health. Link: https://newsroom.nmsu.edu/news/nmsu--utep-collaboration-focuses-on-research-in-brain--behavioral-health/s/df961abf-9503-40c1-8812-266e3cbf4aad
3. June 28th, 2025: The Psychonomic Society has posted about me taking over as Editor in Chief at AP&P in 2026. And NMSU News has run a story on the appointment. Psychonomic Society post: https://www.linkedin.com/posts/psychonomic-society_psynomapp-activity-7340483507988652033-4H6w?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAq605QBXUC4aCZnYyIJbxouNWtb3HeniCY. NMSU News: https://newsroom.nmsu.edu/news/nmsu-associate-dean-named-editor-of-academic-journal/s/b66cc926-33b1-4e35-a2c7-1a2db49fe9eb
4. November 14th, 2024: NMSU news story regarding the relaunch and expansion of the Discovery Scholars Program (which I direct). Link: https://newsroom.nmsu.edu/news/nmsu-undergraduate-research-program-invites-students-to-discover-potential/s/cc1a9bdf-8317-4b95-9718-bf7460fb658d
5. May 16th, 2023: NMSU news story regarding my recent award from the Teaching Academy. Link: https://newsroom.nmsu.edu/news/nmsu-s-20th-annual-teaching-academy-gala-honors-members--donors/s/98990458-76a4-48bc-bfdf-308800a2a5e6
6. August 6th, 2020: NMSU story regarding my move to the National Science Foundation. Link: https://newscenter.nmsu.edu/Articles/view/14350/two-nmsu-professors-selected-for-nsf-program-director-appointments
7. October 2nd, 2019: The *Addison Care Virtual and Augmented Reality Laboratory* – sponsored by Las Cruces based tech company Electronic Caregiver and co-directed by myself and Dr. Phillip Post – opened on NMSU campus. This event was widely covered in the media, including:
    - Youtube coverage of the lab from NMSU: https://www.youtube.com/watch?v=Q0BEX1iw-7U&fbclid=IwAR1v60_w60FgxsRLNjQ2WxoNV4E7DoYKSNrNh2yNxRzcdU7h29agOI7VgMM
    - An NMSU news briefing: https://newscenter.nmsu.edu/Articles/view/13886/nmsu-electronic-caregiver-unveil-virtual-reality-lab-at-milton-hall?fbclid=IwAR2wh_bN-EV0OJcRrU39GrLm94G_HOTVQrBT6cq8vpjp7TQfCWXAW9T-sqI

- KVIA El Paso news coverage: https://www.kvia.com/news/new-mexico/virtual-reality-research-lab-unveiled-at-new-mexico-state-university/1128290800
- KTSM El Paso news coverage: https://www.ktsm.com/local/nmsu-unveils-virtual-reality-research-lab-improve-quality-of-life-for-others/
- Las Cruces Sun News coverage: https://www.lcsun-news.com/story/news/2019/10/03/nmsu-professors-demonstrated-functions-of-the-virtual-reality-lab/3847061002/

8. January 7th, 2019: The *Las Cruces Sun News* ran a story about the virtual reality lab that is being built through donations from Electronic Caregiver, and co-directed by myself and Dr. Phil Post. Link: https://www.lcsun-news.com/story/news/education/nmsu/2019/01/07/nmsu-create-virtual-reality-lab-gift-electronic-caregiver/2507215002/?fbclid=IwAR3xMDtr7rwi3lGJkVCmi_axtc5IVuUqFK1hMOqm3BTp_hftpsmNeopJip4
9. February 18th, 2017: The *Las Cruces Sun News* ran a story about the *Rising Star* award I received from the *Association for Psychological Science*. Link: http://www.lcsun-news.com/story/news/education/nmsu/2018/02/17/nmsu-professor-receives-award-advancing-psychology/348314002/
10. April, 2017: The *Las Cruces Sun News* ran a story on the *Discovery Scholars Program*, of which I am the Associate Director. Link: http://www.lcsun-news.com/story/news/2017/03/25/nmsus-discovery-scholars-program-gives-students-paid-research-experience/99603844/
11. January, 2017: NMSU covered the awards given out at the spring convocation, of which I was a recipient (of the *Donald C. Roush* award for excellence in teaching). Link: https://newscenter.nmsu.edu/Articles/view/12307/nmsu-honors-faculty-retired-staff-member-during-convocation-ceremony
12. August, 2016: NMSU covered the awards given out at the fall convocation, of which I was a recipient (for Early Career Exceptional Achievement in Scholarly Activity). Link: https://newscenter.nmsu.edu/Articles/view/12076/nmsu-convocation-honors-eight-faculty-members-for-excellence-in-teaching-research
13. January, 2016: Our work was again featured in the *Las Cruces Sun News*. Discussed was our work on collaborative visual search, and our budding work on expertise and eye-movements. Link: http://www.lcsun-news.com/story/news/education/nmsu/2016/01/03/research-shows-some-jobs-better-done-alone/78230552/.
14. October, 2015: The work I have been doing with Garrett Bennett as part of the Discovery Scholars program was featured in the *Las Cruces Sun News*. Link: http://www.lcsun-news.com/story/news/education/nmsu/2015/10/31/program-fosters-undergraduates-achievement/74950956/

*Blog posts about our work:*

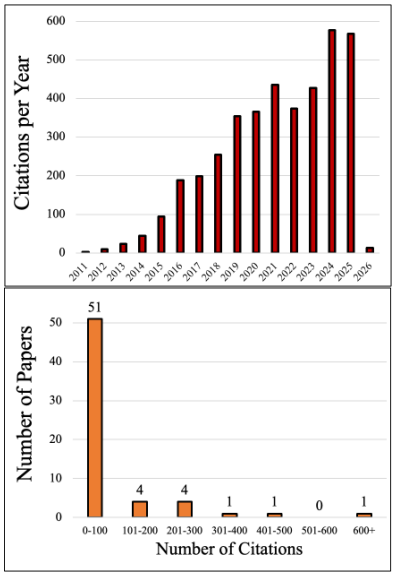
1. December 15th, 2025: The Psychonomic Society has posted about our new(est) paper out in *Behavior Research Methods,* which is focused on evaluating (and making recommendations for) open data sharing practices in the cognition literature (using visual search and eye movements as a bit of a case study). Link: https://featuredcontent.psychonomic.org/sharing-caring-and-developing-better-practices-for-both/
2. September 6th, 2025: The Psychonomic Society has posted about our new paper out in *Behavior Research Methods* (a similarity database of 1200 objects across 20 categories to be used to control visual similarity in experiments in attention, memory, and more). Link: https://www.linkedin.com/posts/psychonomic-society_resources-for-research-activity-7366922670325649408-FdNt?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAq605QBXUC4aCZnYyIJbxouNWtb3HeniCY
3. May 24th, 2022: Benjamin Wolfe's blog post for the Psychonomic Society about our 2022 *Behavior Research Methods* paper. Link: https://featuredcontent.psychonomic.org/sometimes-a-little-bit-odd-is-what-you-need-the-odds-database-of-search-stimuli/
4. July 26th, 2017: Gary Lupyan's blog post for the Psychonomic Society about our 2017 *Attention, Perception, & Psychophysics* paper. Link: https://featuredcontent.psychonomic.org/finding-the-waldolance-among-sedans-verbal-cues-can-guide-search-for-societally-important-vehicles/
5. June 12th, 2016: Stephan Lewandowsky's blog post for the Psychonomic Society about our 2016 *Psychonomic Bulletin & Review* paper. Link: https://featuredcontent.psychonomic.org/symbodiment-god-may-really-be-up-there-but-perhaps-your-lips-dont-listen/
6. December 17th, 2015: Melissa Le-Hao Vo's blog post for the Psychonomic Society about our 2016 *Attention, Perception, & Psychophysics* paper. Link: http://www.psychonomic.org/featured-content-detail/telling-apart-santas-stockings-sneaky-waldos-ho-ho.

*YouTube features:*

1. August, 2016: Featured in an interview after being selected to be part of the NMSU College of Art's and Sciences *Writing to Learn* program. Link: https://www.youtube.com/watch?v=LOvc_o6Isks&feature=youtu.be

2. December, 2015: Our work was featured in an "Eye on research" video, produced by New Mexico State University. The video discusses our research, and gives an introduction to eye-tracking technology. Link: https://www.youtube.com/watch?v=0KJDRAadHNg.

## Citations and Impact




Citations: 4,092; h-index: 26; i10-Index: 42. (Updated: March 2026)

- Source: http://scholar.google.com/citations?user=RzltjfkAAAAJ&hl=en

## Paper Presentations

*-- Supervised graduate students denoted by asterisks (*); supervised undergraduates denoted by daggers (†); supervised post-docs by hashtags (#)*

1. Godwin, H. J., Darch, P., #Del Sordo, G., Buchanan, E., Dewis, H., Bokhove, C., & **Hout, M. C.** (2026). One column name to rule them all: Can we agree on how to label participant identifier columns in our datasets. *Paper presented at the 2026 Society for the Improvement of Psychological Science meeting* (online; May, 2026).
2. #Del Sordo, G., †Alonso, M., Papesh, M. H., & **Hout, M. C.** (2025). Pupillometry reveals distinct signatures of active and passive sustained attention. *Paper presented at the 66th Annual Meeting of the Psychonomic Society:* Denver, CO (November, 2025).
3. Daggett, E. and **Hout, M. C**. (2025). Attentional blink dynamics are modulated by categorical color changes between targets. *Paper presented at the 33rd annual Object Perception, Attention and Memory conference:* Denver, CO (November, 2025).
4. Weatherford, D., †Wieters, N., †Pardo, R., †Morquecho, A., *White, B., *Daggett, E., & **Hout, M. C.** (2024). Multi-dimensional similarity spaces for the FACETS Database: Faces across cameras, emotions, time, and settings. *Paper presented to the 2024 ARMADILLO Cognition Conference: College Station, Tx (*October, 2024*).*
5. Wang, H., Gonzalez, X. T., Renta-Lopez, G. A., Bordes, M. C., **Hout, M. C.,** Choi, S., Reece, G., & Markey, M. K. (2024). Breast cancer survivors' perceptual map of breast reconstruction appearance outcomes. Paper presented at the *2024 Medical Image Perception Society conference* (Nashville, TN; August, 2024).
6. **Hout, M. C.,** Papesh, M. H., *Penn, R., *Mathis, A., *Del Sordo, G., & *White, B. (2024). Developing use-inspired basic research paradigms (and stimuli) for the study of medical image perception. *Paper presented at the 2024 NM-INBRE Symposium* (Las Cruces, NM; July, 2024).
7. *Daggett, E., & **Hout, M. C.** (2024). Addressing perceptual misalignment between artificial intelligence and humans. Paper presented at the *Rocky Mountain Psychological Association conference* (Denver, CO; April, 2024).
8. Scarince, C., & **Hout, M. C.** (2024). Expanding the computational use of Guided Search using a multidimensional scaling "plugin". *Paper presented at the Southwestern Psychological Association meeting; San Antonio, TX (March, 2024).*
9. **Hout, M. C.,** Papesh, M. H., *Penn, R., †Stutesman, E., & †Hernandez, J. (2023). Learning to find anomalies: How behavior and eye movements change across 7 weeks of training. *Paper presented at the 64th Annual Meeting of the Psychonomic Society (San Francisco, California)*.
10. **Hout, M. C.,** Papesh, M. H., †Stutesman, E., †Hernandez, J., *Penn, R., & *Daggett, E. (2023). Simulated medical image perception training: Insights from perceptual learning, eye movements, and AI-assisted similarity modeling. Paper presented at the *2023 NIH IDeA Western Regional Conference* (Albuquerque; August, 2023).
11. **Hout, M. C.,** McKinley, G. L., & Peterson, D. J. (2023). Incidental distractor memory is enhanced by target-distractor similarity during visual search. Paper presented at the *Rocky Mountain Psychological Association conference* (Albuquerque; April, 2023).
12. *White, B., *Daggett, E., Robbins, A., & **Hout, M. C.** (2023). Rock on: Category learning shapes perceived similarity in a natural category. Paper presented at the *Rocky Mountain Psychological Association conference* (Albuquerque; April, 2023).
13. *Daggett, E., & **Hout, M. C.** (2023). Neighborhood inhibition in psychological space elicits Lag-1 sparing. Paper presented at the *Rocky Mountain Psychological Association conference* (Albuquerque; April, 2023).
14. †Hernandez, M., *White, B., **Hout, M. C.,** Godwin, H. J., Polak, J., & Zsido, A. (2023). Investigating prevalence effects during visual search for threatening and non-threatening items. Paper presented at the *Rocky Mountain Psychological Association conference* (Albuquerque; April, 2023).

15. **Hout, M. C.** (2023). Avoiding pitfalls in eye-movement research. *Paper presented at the 2nd Annual New Mexico State University Data Science Symposium in Las Cruces, NM (February, 2023)*.
16. **Hout, M. C.,** Papesh, M. H., *Madrid, J., *Penn, R., & Post, P. (2022). Training of attentional control strategies during visual search through simulated medical images. *Paper presented at the 2022 NM-INBRE Symposium in Santa Fe, NM (July, 2022).*
17. Zsidó, A. N., Stecina, D. T., Cseh, R., & **Hout, M. C.** (2021). The effects of task-irrelevant threatening stimuli on orienting- and executive attentional processes under cognitive load. *Paper presented at the 62nd Annual Meeting of the Psychonomic Society (virtual, 2021)*.
18. Godwin, H. J., Butnaru, A., & **Hout, M. C.** (2019). Using the abacus task to study overestimation of accuracy in eye movements. *Paper presented at the Experimental Psychology Society Summer meeting. Bournemouth, UK. (July, 2019).*
19. Robbins, A., & **Hout, M. C.** (2019). Scene context facilitates search for heterogeneous categories. *Paper presented at the 91st Annual Midwestern Psychological Association conference*: *Chicago, IL. (April, 2019).*
20. **Hout, M. C.,** †Green, E., Guevara Pinto, J., & Papesh, M. H. (2018). Challenging visual search creates better incidental memories for objects and their features. *Paper presented at the 2018 Rocky Mountain Psychological Association conference: Denver, CO (April, 2018).*
21. *Robbins, A., & **Hout, M. C.** (2018). Scene context can facilitate search for imprecisely specified targets. *Paper presented at the 2018 Rocky Mountain Psychological Association conference: Denver, CO (April, 2018).*
22. Kulpa, J., **Hout, M. C.,** & Simon, D. A. (2018). Evaluating SpAM and multi-trial spatial arrangement methods of estimating subjective similarity. *Paper presented at the 2018 Rocky Mountain Psychological Association conference: Denver, CO (April, 2018).*
23. **Hout, M. C.** (2018). Using virtual reality technology to hone the skills of professional baseball umpires. *Three "breakout sessions" presented at the Major League Baseball Annual Umpire Meetings; Scottsdale, Arizona (January, 2018).*
24. *Scarince, C., & **Hout, M. C.** (2017). How to find the green ketchup bottle: How non-defining features impact visual search. *Paper presented at the 25th annual Object Perception, Attention and Memory conference: Vancouver, CA (November, 2017).*
25. Walenchok, S. C., Goldinger, S. D., & **Hout, M. C.** (2017). Your attention seeks confirmation: Visual confirmation bias overshadows prevalence effects in visual attention. *Paper presented at the 19th European Conference on Eye Movements; Wuppertal, Germany (August, 2017).*
26. Walenchok, S. C., Goldinger, S. D., & **Hout, M. C.** (2017). Examining confirmatory strategies in visual search: Prevalence learning counteracts confirmation bias. *Paper presented at the Southwestern Psychological Association meeting; San Antonio, TX (March, 2017).*
27. Godwin, H. J., Fitzsimmons, G., Weal, M., Liversedge, S. P., Menneer, T., & **Hout, M. C.** (2016). Knowing when to quit searching for information. *Paper presented at the 57th Annual Meeting of the Psychonomic Society in Boston, Massachusetts (November, 2016)*.
28. Walenchok, S. C., Houpt, J. W., Godwin, H. J., **Hout, M. C.,** & Goldinger, S. D. (2016). Is this object "yellow" or is this object "Not yellow": Disconfirmatory strategies influence object identification during visual search. *Paper presented at the 24th annual Object Perception, Attention and Memory conference: Boston, MA (November, 2016).*
29. **Hout, M. C.,** †Lopez, A., *Robbins, A., & Papesh, M. H. (2016). Expertise fine-tunes mental representations of targets during challenging visual search. *Paper presented to the 2016 ARMADILLO Cognition Conference: El Paso, TX (September, 2016).*
30. **Hout, M. C.,** and *Robbins, A. (2016). Individual differences in the perception of category typicality predict the usefulness of target templates during word-cued search. *Micro-talk presented at the Individual Differences Brownbag, a satellite event at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
31. *Scarince, C., & **Hout, M. C.** (2016*). Coping with a MAD World: Visual search strategies in dynamic environments. *Paper presented at the 2016 Rocky Mountain Psychological Association conference: Denver, CO (March, 2016).*
32. Guevara Pinto, J., Papesh, M. H., & **Hout, M. C.** (2016). RSVP search: Typicality effects in an atypical visual search task. *Paper presented at the 2016 Southeastern Psychological Association meeting in New Orleans, LA (March, 2016).*
33. *Robbins, A., & **Hout, M. C.** (2015). Categorical templates: Typical category members are found and identified quickly during word-cued search. *Paper presented at the 23rd annual Object Perception, Attention and Memory conference: Chicago, IL (November, 2015).*

    Also presented at the New Mexico State University, *Graduate Research and Arts Symposium* (April, 2016).
34. **Hout, M. C.,** Walenchok, S. C., Goldinger, S. D., & Wolfe, J. M. (2014). The low-prevalence effect is due to failures of attention, not premature search termination or motor errors: Evidence from passive search and eye-movements. *Paper presented at the Vision Sciences Society 2014 Meeting in St. Petersburg, Fl (May, 2014).*

35. Walenchok, S. C., **Hout, M. C.,** & Goldinger, S. D. (2013). What does that picture sound like to you?: Oculomotor evidence for phonological competition in visual search. *Paper presented at the 21st annual Object Perception, Attention and Memory conference: Toronto, Canada (November, 2013).*
36. **Hout, M. C.,** & Goldinger, S. D. (2013). Tortoise or hare? Picture-derived target "templates" quicken search but are prone to decay. Word-derived templates slow search but are stable over time. *Paper presented at the Vision Sciences Society 2013 Meeting in Naples, FL (May, 2013).*
    **Also at:** *Journal of Vision, 13,* 1251. doi: 10.1167/13.9.1251.
37. **Hout, M. C.,** & Goldinger, S. D. (2011). Multiple-target search increases workload but enhances incidental learning: A computational modeling approach to a memory paradox. *Paper presented at the 19th Annual Object Perception, Atttention, & Memory Conference in Seattle, Washington (November, 2011).*
38. **Hout, M. C.,** & Goldinger, S. D. (2011). Incidental learning speeds visual search by lowering response thresholds, not by improving efficiency. *Paper presented at the 16th European Conference on Eye Movements in Marseilles, France (August, 2011).*
39. Papesh, M. H., **Hout, M. C.,** & Goldinger, S. D. (2010). Eye movements and pupil dilations reveal fast, voice-specific priming. *Paper presented at the 51st Annual Meeting of the Psychonomic Society in St. Louis, Missouri (November, 2010; read by Stephen Goldinger).*
40. **Hout, M. C.,** & Goldinger, S. D. (2009). Eye movements in repeated visual search for complex images. *Paper presented at the Western Psychological Association 89th Annual Convention in Portland, Oregon (April, 2009).*

## Poster Presentations

*-- Supervised graduate students denoted by asterisks (*); supervised undergraduates by daggers (†); supervised post-docs by hashtags (#)*

1. #Del Sordo, G., *Daggett, E., †Art, J., & **Hout, M. C.** (2026). An AI-human similarity database for studying context-dependent representational alignment in medical imaging. *Poster presented at the Vision Sciences Society 2026 Meeting in St. Petersburg, Fl (May, 2026).*
2. *Daggett, E., #Del Sordo, G., †Art, J., & **Hout, M. C.** (2026). Contexts effects in similarity judgments impact AI-human visual representation alignment. *Poster presented at the Vision Sciences Society 2026 Meeting in St. Petersburg, Fl (May, 2026).*
3. †Kass, M., #Del Sordo, G., & **Hout, M. C.** (2026). Mixed signals: How feedback cues shape memory correction. Poster presented at the *New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2026).
4. †Art, J., Daggett, E. W., & **Hout, M. C.**. (2026). An exploration of the effects of timing and target-target similarity in the attentional blink. Poster presented at the *Rocky Mountain Psychological Association conference* (Boise, IH; March, 2026).
5. *Daggett, E., & **Hout, M. C.** (2025). Context matters: Artificial intelligence trained on human similarity data is susceptible to context effects. *Poster presented at the 66th Annual Meeting of the Psychonomic Society:* Denver, CO (November, 2025).
6. Carrillo, M. A., #Del Sordo, G., Papesh, M. H., and **Hout, M. C**. (2025). Disentangling active and passive sustained attention: Evidence from temporal patterns in pupillometry. *Poster presented at the 33rd annual Object Perception, Attention and Memory conference:* Denver, CO (November, 2025).
7. †Carrillo, M. A., #Del Sordo, G., Papesh, M. H., and **Hout, M. C**. (2025). Disentangling active and passive sustained attention: Evidence from temporal patterns in pupillometry. Poster presented at the *New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2025).
8. *Penn, R., & **Hout, M. C.** (2024). Reading the handler: A location-based map of handler attention during detection work. *Poster presented to the Joint Symposium for Working K9s:* Atlanta, GA (April, 2024).
9. **Hout, M. C.,** Kiss, B., Basler, J., Csonka, O., Yildiz, B., †Hernandez, M., *White, B., *Daggett, E., & Zsido, A. N. (2024). A database of threatening and non-threatening objects, visually alike and rated for similarity. *Poster presented at the 65th Annual Meeting of the Psychonomic Society:* New York, NY (November, 2024).
10. Weatherford, D., Pardo, R. M., Wieters, N. H., *Daggett, E., *White, B., & **Hout, M. C.** (2024). Multi-dimensional similarity spaces for the FACETS Database: Faces Across Cameras, Emotions, Time, and Settings. *Poster presented at the 65th Annual Meeting of the Psychonomic Society:* New York, NY (November, 2024).
11. *Mathis, A., & **Hout, M. C.** (2024). Waldo and the mind's eye: Exploring visual search and individual differences in mental imagery. *Poster presented at the 65th Annual Meeting of the Psychonomic Society:* New York, NY (November, 2024).

12. †Luby, P., *Mathis, A. P., *White, B. W., *Penn, R., Robbins, A., & **Hout, M. C.** (2024). Using virtual reality to simulate wilderness search and rescue 'clue-finding' tasks. *Poster presented at the 32nd annual Object Perception, Attention and Memory conference:* New York, NY (November, 2024).
13. *Mathis, A., *Del Sordo, G., **Hout, M. C.**, Papesh, M. H., *White, B. W., & *Penn, R. (2024). A closer look at perceptual training during an anomaly search task: Target recognition and error distributions. *Poster presented at the 32nd annual Object Perception, Attention and Memory conference:* New York, NY (November, 2024).
14. Wang, H., Gonzalez, X. T., Renta Lopez, G. A., Hull, S., Bordes, M. C., **Hout, M. C.,** Choi, S. W., Markey, M. K., & Reece, G. P. (2024). Algorithms to help patients visually express what they expect to look like after breast reconstruction. *Poster presented at the 2024 AI in Health Conference:* Houston, Tx (September, 2024).
15. **Hout, M. C.,** Papesh, M. H., *Penn, R., †Stutesman, E., & †Hernandez, J. (2024). Developing use-inspired basic research paradigms (and stimuli) for the study of medical image perception. *Poster presented to the 9th National IDeA Symposium of Biomedical Research Excellence (NISBRE):* Washington DC (June, 2024).
16. *Daggett, E., & **Hout, M. C.** (2023). A suite of R code for visualizing and exploring high-dimensional data. *Poster presented at the 64th Annual Meeting of the Psychonomic Society:* San Francisco, California (November, 2023).
17. Scarince, C., & **Hout, M. C.** (2023). Using multidimensional scaling to enable continuous complex features in a modified Guided Search model. *Poster presented at the 64th Annual Meeting of the Psychonomic Society:* San Francisco, California (November, 2023).
18. *White, B., *Daggett, E., **Hout, M. C.,** & Robbins, A. (2023). Learning shapes perceived similarity of natural categories. *Poster presented at the 64th Annual Meeting of the Psychonomic Society: San Francisco, California (November, 2023)*.
19. †Hernandez, M., **Hout, M. C.,** Godwin, H. J., Polak, J., *White, B., & Zsido, A. (2023). An exploration of prevalence effects for threatening and non-threatening targets. *Poster presented at the 64th Annual Meeting of the Psychonomic Society:* San Francisco, California (November, 2023).
20. *White, B., *Daggett, E., & **Hout, M. C.** (2023). The RockSim database: Multidimensional scaling analyses of similarity ratings for 30 categories of rocks. *Poster presented at the 31st annual Object Perception, Attention and Memory conference:* San Francisco, California (November, 2023).
21. †Stutesman, E., †Hernandez, J., *Penn, R., Papesh, M., & **Hout, M. C.** (2023). An exploration of perceptual training methods for improving medical image perception Part 1: Training sessions. *Poster presented at the 31st annual Object Perception, Attention and Memory conference:* San Francisco, California (November, 2023).
22. †Hernandez, J., †Stutesman, E., *Penn, R., Papesh, M., & **Hout, M. C.** (2023). An exploration of perceptual training methods for improving medical image perception Part 2: Retention and transfer. *Poster presented at the 31st annual Object Perception, Attention and Memory conference:* San Francisco, California (November, 2023).
23. Wang, H., Choi, S., Reece, G. P., Parham, C. S., Bordes, M. C., **Hout, M. C.,** & Markey, M. K. (2023). Perceptual map of breast reconstruction appearance outcomes. Poster presented at the *Biomedical Engineering Society meeting* (Seattle, WA; October 2023).
24. Dearie, M. C, Wheat, S. C., **Hout, M. C.,** & Madson, L. J. (2023). Students' perceptions of team-based learning: Benefits, drawbacks, and enduring friendships. Poster presented at the *Western Psychological Association conference* (Riverside, CA; April, 2023).
25. Stone, L., Wheat, S., C., **Hout, M. C.,** & Madson, L. J. (2023). Belongingness in team-based learning. Poster presented at the *Western Psychological Association conference* (Riverside, CA; April, 2023).
26. †Stutesman, E., *Penn, R., Papesh, M. H., & **Hout, M. C.** (2023). An exploration of perceptual training methods for improving medical image perception. Poster presented at the *New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2023).
27. Zsido, A. N., **Hout, M. C.,** & Stecina, D. T. (2023). Task-irrelevant threatening objects are hard to inhibit due to their affective rather than visual properties. Poster presented at the *Rocky Mountain Psychological Association conference* (Albuquerque, NM; April, 2023).
28. **Hout, M. C.,** Godwin, H. J., Polak, J., & Zsido, A. N. (2022). Investigating prevalence effects during visual search for threatening targets. *Poster presented at the 63rd Annual Meeting of the Psychonomic Society (Boston; November, 2022)*.
29. *Daggett, E. W., & **Hout, M. C.** (2022). Constructing connectionist implementations of n-dimensional psychological spaces. *Poster presented at the 63rd Annual Meeting of the Psychonomic Society (Boston; November, 2022)*.

30. McKinley, G., Peterson, D., & **Hout, M. C.** (2022). How does searching for multiple faces among similar-looking distractors affect search performance and distractor memory? *Poster presented at the 63rd Annual Meeting of the Psychonomic Society (Boston; November, 2022)*.
31. Zsido, A. N., Bali, C., Kocsor, F., & **Hout, M. C.** (2022). Emotional valence-based effects of task-irrelevant stimuli on attentional processes under cognitive load. *Poster presented at the 63rd Annual Meeting of the Psychonomic Society (Boston; November, 2022)*.
32. Wang, H., Choi, S., **Hout, M. C.,** Reece, G. P., & Markey, M. K. (2022). Comparison of approaches for patient-reported visual similarity of breast reconstruction outcomes. *Poster presented at the American Medical Informatics Association 2022 Clinical Informatics Conference (May, 2022).*
33. Wheat, S., Madson, L., **Hout, M. C.,** & Fraune, M. (2022). Perceived social support and other non-academic benefits of TBL. *Poster presented at the 2022 Team Based Learning Conference (virtual; March, 2022).*
34. **Hout, M. C.,** Masadeh, S., *Sandin, H., Papesh, M. H., Post, P., *Madrid, J., *White, B., Guevara Pinto, J., †Welsh, J., *Goode, D., *Skulsky, R., & †Cazares Rodriguez, M. (2021). The Oddity Detection in Diverse Scenes (ODDS) database: Rated and validated real-world scenes for studying anomaly detection. *Poster presented at the 62nd Annual Meeting of the Psychonomic Society (virtual; November, 2021)*.
35. Zsidó, A. N., Stecina, D. T., & **Hout, M. C.** (2021). The role of shape and arousal in competition for visual working memory resources. *Poster presented at the PSACon 2021 meeting of the Psychological Science Accelerator (virtual; October, 2021)*.
36. Madson, L. J., Wheat, S., **Hout, M. C.,** & Fraune, M. R. (2021). Team-based learning fosters student friendships that endure beyond the semester. *Poster presented at the Annual Conference on Teaching (virtual; October, 2021).*
37. †Ayavar, J., **Hout, M. C.,** *Penn, R., †Phi, K., & Post, P. (2021). Using virtual reality to study best practices in search and rescue 'clue finding' tasks. *Poster presented at the New Mexico State University, Undergraduate Research and Creative Arts Symposium* (virtual; May, 2021).
38. †Welsh, J., **Hout, M. C.,** Masadeh, S., *Sandin, H., Papesh, M. H., Post, P., *Madrid, J., *White, B., Guevara Pinto, J., *Goode, D., *Skulsky, R., & †Cazares Rodriguez, M. (2021). The ODDS Database: Scene stimuli that can be used to study basic and complex visual search. *Poster presented at the New Mexico State University, Undergraduate Research and Creative Arts Symposium* (virtual; May, 2021).
39. Zsidó, A. N., Stecina, D. T., Cseh, R., & **Hout, M. C.** (2021). The effects of task-irrelevant threatening stimuli on orienting- and executive attentional processes under cognitive load. *Poster presented at the Experimental Psychology Society meeting. London, UK. (virtual; January, 2021).*
40. *Madrid, J., *White, B., Godwin, H. J., Scarince, C., & **Hout, M. C.** (2020). Some assembly required: Examining strategy use during multi-modal search for Lego bricks. *Poster presented at the 61st Annual Meeting of the Psychonomic Society (virtual; November, 2020)*.
41. Richie, D. R., *White, B., Bhatia, S., & **Hout, M. C.** (2020). The spatial arrangement method of measuring similarity can capture high-dimensional, semantic structures. *Poster presented at the 42nd Annual Meeting of the Cognitive Science Society in Toronto, Canada* (July, 2020).
42. Powell, P., †Phi, K., Masadeh, S., †Ayavar, J., *Skulsky, R., *White, B., Del Sordo, G., Aiken, C., **Hout, M. C.,** & Post, P. (2020). Investigating the ability of "virtual vacations" to alleviate pain and discomfort. *Poster presented at the New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2020).
43. †Cazares Rodriguez, M., *Penn, R., & **Hout, M. C.** (2020). MeSS Database: Creating a database of systematic stimuli in messy real-world scenarios. *Poster presented at the New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2020).
44. Henning, D., *Sabic, E., Berg, M., & **Hout, M. C.** (2020). Examining the distracting effects of languages with varying phonological similarity. *Poster presented at the 2020 Rocky Mountain Psychological Association conference: Denver, CO (April, 2020).*
45. *Madrid, J., & **Hout, M. C.** (2019). Open the window: Passive search strategies lead to broader attentional distribution during single target and hybrid visual search. *Poster presented at the 27th annual Object Perception, Attention and Memory conference: Montreal, Canada (November, 2019).*
46. *White, B. L., Godwin, H. J., *Madrid, J., Scarince, C., & **Hout, M. C.** (2019). Every search is awesome!: A pilot study using Lego to examine three-dimensional visual search. *Poster presented at the 27th annual Object Perception, Attention and Memory conference: Montreal, Canada (November, 2019).*

47. Guevara Pinto, J., Papesh, M. H., & **Hout, M. C.** (2019). The details are in the difficulty: Incidental recognition of objects' perceptual details following visual search. *Poster presented at the 60th Annual Meeting of the Psychonomic Society in Montreal, Canada (November, 2019)*.
48. Richie, D. R., *White, B., Bhatia, S., & **Hout, M. C.** (2019). The spatial arrangement method of collecting similarity ratings can capture higher dimensional, conceptual similarity structures. *Poster presented at the 60th Annual Meeting of the Psychonomic Society in Montreal, Canada (November, 2019)*.
49. Richie, D. R., *White, B., **Hout, M. C.,** & Bhatia, S. (2019). Modeling fine-grained word similarity with embeddings from language corpora, free association, and feature norms. *Poster presented at the 60th Annual Meeting of the Psychonomic Society in Montreal, Canada (November, 2019)*.
50. †Mcpherson, R., *Sandin, H., *Sabic, E., & **Hout, M. C.** (2019). Creation of a large, open-access database of complex visual scenes for use in experimental psychology. *Poster presented at the New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2019).
51. †Phi, K., *Penn, R., Masadeh, S., Post, P., & **Hout, M. C.** (2019). Simulating an open terrain visual search environment in three-dimensional virtual reality. *Poster presented at the New Mexico State University, Undergraduate Research and Creative Arts Symposium* (April, 2019).
52. Robbins, A., MacDonald, J., Ercolino, A., Schmidt, J., *Sabic, E., & **Hout, M.C.** (2019). The Pictures by Category and Similarity (PICS) Database: A database of 1200 pictures from 20 object categories rated for similarity using multidimensional scaling. *Poster presented at the 31st Annual Association for Psychological Science Convention in Washington D.C. (May, 2019).*
53. Robbins, A., Scherer, K., *Sabic, E., MacDonald, J., Ercolino, A., Schmidt, J., & **Hout, M. C.** (2019). Using multidimensional scaling to quantify category heterogeneity effects in visual search. *Poster presented at the Vision Sciences Society 2019 Meeting in St. Petersburg, Fl (May, 2019).*
54. *Morrow, A. M., Amiotte, A., **Hout, M. C.,** & MacDonald, J. (2018). The effect of transcranial direct current stimulation (tDCS) on audition. *Poster presented at the 2018 New Mexico Academy of Science Research Symposium: Albuquerque, NM (October, 2018).*
55. *Madrid, J., *Penn, R., *White, B., †Torres, A., & **Hout, M. C.** (2018). It's all a blur: Partial visual information triggers logarithmic decision making during object recognition. *Poster presented at the 26th annual Object Perception, Attention and Memory conference: New Orleans, LA (November, 2018).*
56. *Penn, R., & **Hout, M. C.** (2018). Getting a clue: Visual search in open terrain environments. *Poster presented at the 26th annual Object Perception, Attention and Memory conference: New Orleans, LA (November, 2018).*
57. *Madrid, J., & **Hout, M. C.** (2018). Looking for the one: Passive strategies improve guidance and object recognition in single-target search. *Poster presented at the 59th Annual Meeting of the Psychonomic Society in New Orleans, Louisiana (November, 2018)*.
58. *Scarince, C., & **Hout, M. C.** (2018). An update to the Guided Search model using multi-dimensional scaling to capture the features of complex, real-world objects. *Poster presented at the 59th Annual Meeting of the Psychonomic Society in New Orleans, Louisiana (November, 2018)*.
59. Post, P. G., Aiken, C. A., **Hout, M. C.,** & *Madrid, J. (2018). Learner-controlled pace of practice in isolation does not yield the self-control effect. *Poster presented at the 2018 North American Society for the Psychology of Sport and Physical Activity meeting in Denver, CO (June, 2018).*
60. Aiken, C. A., Post, P. G., **Hout, M. C.,** & *Madrid, J. (2018). Learner-controlled amount of practice with fixed inter-trial interval benefits learning. *Poster presented at the 2018 North American Society for the Psychology of Sport and Physical Activity meeting in Denver, CO (June, 2018).*
61. Kulpa, J., **Hout, M. C.,** & Simon, D. A. (2018). Evaluating SpAM and multi-trial spatial arrangement methods of estimating subjective similarity. *Poster presented at the 30th Annual Convention of the Association for Psychological Science in San Franciso, CA (May, 2018).*
62. *Robbins, A., & **Hout, M. C.** (2018). Scene context influences expectations about imprecisely specified search targets. *Poster presented at the Vision Sciences Society 2018 Meeting in St. Petersburg, Fl (May, 2018).*
63. Guevara Pinto, J. D., Papesh, M. H., Goldinger, S. D., & **Hout, M. C.** (2018). Enhanced distractor memory following difficult search: The role of attention allocation in incidental encoding. *Poster presented at the Vision Sciences Society 2018 Meeting in St. Petersburg, Fl (May, 2018).*
64. †Green, E., **Hout, M. C.,** Guevara Pinto, J., & Papesh, M. H. (2018). Challenging visual search creates better incidental memories for objects and their features. *Poster presented at the 2018 Undergraduate Research and Creative Arts Symposium (URCAS) in Las Cruces, NM (April, 2018).*
65. *Madrid, J., & **Hout, M. C.** (2017). Use the force: Passive strategies in hybrid visual search impact eye-movements and improve search efficiency. *Poster presented at the 58th Annual Meeting of the Psychonomic Society in Vancouver, Canada (November, 2017)*.

66. †DesGeorges, J., & **Hout, M. C.** (2017). Is the internet really a crutch?: An utter failure (and new attempts) to replicate the Google Effect. *Poster presented at the 25th annual Object Perception, Attention and Memory conference: Vancouver, CA (November, 2017).*
67. Fasenko, G., Castro, C., **Hout, M. C.,** & Wilson, C. (2017). Are dog owners able to correctly identify primary and secondary emotions in their canine companions based on dog vocalization and body language? *Poster presented at the International Society for Anthrozoology meeting in Irvine, Ca (June, 2017).*
68. †DesGeorges, J., & **Hout, M. C.** (2017). Help me Google?: A complete failure to replicate a prominent *Science* article. *Poster presented at the New Mexico State University, College of Arts and Sciences Undergraduate Research and Creative Arts Symposium* (April, 2017).
69. Chen, F. M., Walenchok, S. C., Goldinger, S. D., & **Hout, M. C.** (2017). Examining confirmation bias in visual search. *Poster presented at the Arizona Psychology Undergraduate Research Conference (February, 2017).*
70. **Hout, M. C.,** †Lopez, A., *Robbins, A., & Papesh, M. H. (2016). Expertise fine-tunes mental representations of targets during challenging visual search. *Poster presented at the 57th Annual Meeting of the Psychonomic Society in Boston, Massachusetts (November, 2016)*.
71. *Robbins, A., Cunningham, C. A., MacDonald, J., & **Hout, M. C.** (2016). Strength in numbers: Testing the fidelity of multidimensional scaling for large datasets. *Poster presented at the 57th Annual Meeting of the Psychonomic Society in Boston, Massachusetts (November, 2016)*.
72. Walenchok, S. C., Goldinger, S. D., & **Hout, M. C.** (2016). The low-prevalence effect counteracts confirmatory bias in visual search. *Poster presented at the 57th Annual Meeting of the Psychonomic Society in Boston, Massachusetts (November, 2016)*.
73. *Scarince, C., & **Hout, M. C.** (2016). Finding the green ketchup bottle: Investigating how non-essential features sometimes aid in search. *Poster presented at the 24th annual Object Perception, Attention and Memory conference: Boston, MA (November, 2016).*
74. *Madrid, J., Godwin, H. J., Cunningham, C. A., *Robbins, A., & **Hout, M. C.** (2016). All targets are not created equal: Some targets are often missed in hybrid visual search tasks. *Poster presented at the 24th annual Object Perception, Attention and Memory conference: Boston, MA (November, 2016).*
75. †Lopez, A., *Robbins, A., Godwin, H. J., & **Hout, M. C.** (2016). Working with a partner may help protect against frequency effects in difficult visual search. *Poster presented at the 24th annual Object Perception, Attention and Memory conference: Boston, MA (November, 2016).*
76. *Scarince, C., & **Hout, M. C.** (2016). I beat the odds, right?: The effects of expectancy on gambling memory. *Poster presented at the 2016 ARMADILLO Cognition Conference: El Paso, TX (September, 2016).*
77. **Hout, M. C.,** Maxfield, J., *Robbins, A., & Zelinsky, G. (2016). Object categorization performance modeled using multidimensional scaling and category-consistent features. *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
78. *Melia, C., & **Hout, M. C.** (2016). Perceptual challenges for inverted icons: The Face Inversion Effect does not extend to complex objects. *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
79. *Scarince, C., & **Hout, M. C.** (2016). Investigating dynamic feature prevalence and quitting thresholds in Multi-element Asynchronous Dynamic (MAD) search. *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
80. †Lopez, A., †Bennett, G., *Robbins, A., Godwin, H. J., & **Hout, M. C.** (2016). Find one fast, or find them all slow: Do collaborative visual searchers search more quickly or more thoroughly? *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
81. †Sabik, M., *Scarince, M., Papesh, M. H., Godwin, H. J., Goldinger, S. D., & **Hout, M. C.** (2016). Rare targets induce less "perceptual readiness:" Evidence from pupillometry. *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
82. *Madrid, J., Cunningham, C. A., *Robbins, A., Godwin, H. J., Wolfe, J. M., & **Hout, M. C.** (2016). Exploring the nature of mental representations in hybrid visual and memory search. *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
83. Walenchok, S. C., Goldinger, S. D., & **Hout, M. C.** (2016). Examining confirmatory strategies in visual search: People are more flexible than you think. *Poster presented at the Vision Sciences Society 2016 Meeting in St. Petersburg, Fl (May, 2016).*
84. *Robbins, A., **Hout, M. C.,** Fitzsimmons, G., Menneer, T., & Godwin, H. J. (2015). Going beyond the 'visual' in visual search: Semantic search for related words. *Poster presented at the 56th Annual Meeting of the Psychonomic Society in Chicago, Illinois (November, 2015)*.

85. Walenchok, S. C., Godwin, H. J., Houpt, J. W., **Hout, M. C.,** & Goldinger, S. D. (2015). Greater than parallel: Distinguishing features can be combined for efficient object identification in dual-target search. *Poster presented at the 56th Annual Meeting of the Psychonomic Society in Chicago, Illinois (November, 2015)*.
86. †Lopez, A., †Bennett, G., *Robbins, A., Godwin, H. J., & **Hout, M. C.** (2015). Four eyes aren't always better than two: Collaborative categorical multiple-target hybrid search. *Poster presented at the 23rd annual Object Perception, Attention and Memory conference: Chicago, IL (November, 2015).*
87. *Scarince, C., & **Hout, M. C.** (2015). Cutting through the MADness: Investigating visual search efficiency in dynamic displays. *Poster presented at the 23rd annual Object Perception, Attention and Memory conference: Chicago, IL (November, 2015).*
88. *Madrid, J., Cunningham, C., *Robbins, A., & **Hout, M. C.** (2015). Don't label me!: Search for familiar, nameable objects vs. search for unfamiliar, novel objects. *Poster presented at the 23rd annual Object Perception, Attention and Memory conference: Chicago, IL (November, 2015).*
89. **Hout, M. C.,** Godwin, H. J., Walenchok, S., Houpt, J. W., & Goldinger, S. D. (2015). Faster than the speed of rejection: Object identification processes during visual search for multiple targets. *Poster presented at the Vision Sciences Society 2015 Meeting in St. Petersburg, Fl (May, 2015)*.
90. *Robbins, A., **Hout, M. C.,** Godwin, H. J., & Fitzsimmons, G. (2015). Quiet eyes: Stress, worry, and anxiety fail to influence fixational stability, accuracy, or movement frequency. *Poster presented at the Vision Sciences Society 2015 Meeting in St. Petersburg, Fl (May, 2015)*.
91. *Madrid, J., *Robbins, A., & **Hout, M. C.** (2015). Drop the beat and miss T2: How various dimensions of music influence attentional failures. *Poster presented at the Vision Sciences Society 2015 Meeting in St. Petersburg, Fl (May, 2015)*.
92. Walenchok, S. C., **Hout, M. C.,** & Goldinger, S. D. (2015). Phonological interference in visual search: Object names are automatically activated in non-linguistic tasks. *Poster presented at the Vision Sciences Society 2015 Meeting in St. Petersburg, Fl (May, 2015)*.
93. *Scarince, C., & **Hout, M. C.** (2015). I Won (As Far As I Can Remember)! Broad Implications of the Incongruity Effect. *Poster presented at the 16th Annual Meeting of the Society of Personality and Social Psychology: Long Beach, CA (February, 2015).*
94. **Hout, M. C.,** Godwin, H. J., Fitzsimmons, G., *Robbins, A., & Menneer, T. (2014). Semantic and visual similarity guide visual search for words and number. *Poster presented at the 55th Annual Meeting of the Psychonomic Society in Long Beach, California (November, 2014).*
95. Walenchok, S. C., **Hout, M. C.,** & Goldinger, S. D. (2014). Beanie and the Beast: Articulatory suppression fails to inhibit covert object-naming during visual search. *Poster presented at the 22nd annual Object Perception, Attention and Memory conference: Long Beach, CA (November, 2014).*
96. Ratiu, I., **Hout, M. C.,** Walenchok, S. C., Azuma, T., & Goldinger, S. D. (2014). The bilingual switching advantage investigated using a visual search task. *Poster presented at the 22nd annual Object Perception, Attention and Memory conference: Long Beach, CA (November, 2014).*
97. *Robbins, A., **Hout, M. C.,** Godwin, H. J., Fitzsimmons, G., & *Scarince, C. (2014). Where's Volvo: Visual search for automobiles and why attention is prioritized to school buses. *Poster presented at the 22nd annual Object Perception, Attention and Memory conference: Long Beach, CA (November, 2014).*
98. *Scarince, C., & **Hout, M. C**. (2014). Investigating the effects of depth perception on the evaluative conditioning of abstract objects. *Poster presented at the 22nd annual Object Perception, Attention and Memory conference: Long Beach, CA (November, 2014).*
99. Walenchok, S. C., **Hout, M. C.,** & Goldinger, S. D. (2014). Categorical contextual cueing in visual search. *Poster presented at the Vision Sciences Society 2014 Meeting in St. Petersburg, Fl (May, 2014).*
100. Menneer, T., Godwin, H., & **Hout, M. C.** (2014). Visual similarity is stronger than semantic similarity in guiding visual search for numbers. *Poster presented at the Vision Sciences Society 2014 Meeting in St. Petersburg, Fl (May, 2014).*
101. **Hout, M. C.,** Papesh, M. H., & Goldinger, S. D. (2013). Pupil size reveals template construction and target detection in RSVP search. *Poster presented at the 54th Annual Meeting of the Psychonomic Society in Toronto, Canada (November, 2013).*
102. Ratiu, I., **Hout, M. C.,** Azuma, T., & Goldinger, S. D. (2013). The bilingual advantage investigated using visual search. *Poster presented at the 21st annual Object Perception, Attention and Memory conference: Toronto, Canada (November, 2013).*
103. Walenchok, S., **Hout, M. C.,** & Goldinger, S. D. (2013). Is an image worth a phonological representation? Investigating the effect of target-distractor phonological similarity in multiple-target search. *Poster presented at the Vision Sciences Society 2013 Meeting in Naples, FL (May, 2013).*

104. **Hout, M. C.,** & Goldinger, S. D. (2012). Small perceptual differences cause big problems when they make your "target template" imprecise. *Poster presented at the 20th annual Object Perception, Attention and Memory conference: Minneapolis, Minnesota (November, 2012)*.
105. **Hout, M. C.,** Papesh, M. H., & Goldinger, S. D. (2012). RSVPupillometry: Incidental memory and psychophysiology in rapid-serial multiple-target search. *Poster presented at the Vision Sciences Society 2012 Meeting in Naples, Florida (May, 2012).*
106. **Hout, M. C.,** Ferguson, R. W., Homa, D., & Goldinger, S. D. (2009). Testing a fast, efficient method for multidimensional scaling. *Poster presented at the 50th Annual Meeting of the Psychonomic Society in Boston, Massachusetts (November, 2009).*
107. **Hout, M. C.,** & Goldinger, S. D. (2009). Eye movements in repeated visual search. *Poster presented at the European Society for Cognitive Psychology, in Krakow, Poland (September, 2009).*
108. **Hout, M. C.,** & Goldinger, S. D. (2008). Repeated visual search: The contributions of object identity, spatial information, and working memory load. *Poster presented at the Western Psychological Association 88th Annual Convention in Irvine, California (April, 2008).*

## Professional Service (academic service)

Professional Affiliations:

- Spark Society member (2022 – present)
- Cognitive Science Society member (2020 – present)
- Psychonomic Society Fellow (2016 – present)
- Psychonomic Society Associate Member (2013 - 2016)
- Vision Sciences Society member (2011 – 2017; 2025 - present)
- Association for Psychological Science member (2014 – 2016)
- Western Psychological Association member (2007 – 2009)

Journal reviewer (as needed; typically 3-5 papers per month):

- Acta Psychologica
- Applied Cognitive Psychology
- Attention, Perception & Psychophysics
- Behavior Research Methods
- Brain and Language
- Canadian Journal of Experimental Psychology
- Cognition
- Cognitive Research: Practices and Implications
- Collabra
- Computing in Science and Engineering
- Consciousness and Cognition
- Current Opinion in Psychology
- Emotion
- Experimental Brain Research
- European Journal of Personality
- Human Factors
- International Journal of Distributed Sensor Networks
- International Journal of Psychophysiology
- Journal of Applied Research in Memory and Cognition
- Journal of Cognitive Enhancement
- Journal of Cognitive Psychology
- Journal of Defense Modelling and Simulation
- Journal of Experimental Psychology: Applied
- Journal of Experimental Psychology: General
- Journal of Experimental Psychology: Human Perception & Performance
- Journal of Experimental Psychology: Learning, Memory, & Cognition
- Journal of Experimental Social Psychology
- Journal of General Psychology
- Journal of Neurophysiology
- Journal of Personality and Social Psychology: Personality Processes and Individual Differences
- Journal of Vision
- Methods in Psychology
- Memory & Cognition
- Multivariate Behavioral Research
- Nature Reviews: Psychology
- Neuroimage
- Peer J
- Perception
- PLOS One
- Psychological Methods
- Psychological Research
- Psychonomic Bulletin & Review
- Quarterly Journal of Experimental Psychology
- Social Psychological and Personality Science
- Trends in Cognitive Sciences
- Vision
- Vision Research
- Visual Cognition

Grant reviewer, panelist, or panel moderator:

- As moderator:

    - Computing Alliance of Hispanic Serving Institutions (partnership between University of Texas at El Paso and Google); Summer 2025.
    - Computing Alliance of Hispanic Serving Institutions (partnership between University of Texas at El Paso and Google); Summer 2024.
- As panelist:
    - National Science Foundation (NSF), SBE Directorate; Fall 2024.
    - National Science Foundation (NSF), EDU Directorate; Spring 2024.
    - National Science Foundation (NSF), SBE Directorate; Fall 2019.
    - National Science Foundation (NSF), SBE Directorate; 2017.
- As reviewer:
    - Leverhulme Trust fellowship; Summer 2025.
    - National Science Foundation (NSF), EDU Directorate; Fall 2024.
    - Natural Sciences and Engineering Research Council of Canada; Fall 2024.
    - National Science Foundation (NSF), SBE Directorate; Fall 2024.
    - National Science Foundation (NSF), SBE Directorate; Spring 2024.
    - Leverhulme Trust fellowship; Spring 2023.
    - Colorado University (Boulder) "Grand Challenges"; Spring 2023.
    - National Science Foundation (NSF), SBE Directorate; Spring 2023.
    - National Science Foundation (NSF), SBE Directorate; Fall 2022.
    - National Science Foundation (NSF), SBE Directorate; Fall 2020.
    - American Psychology-Law Society (AP-LS) Early Career Professional Grant In-Aid; 2017.
    - US Army Research Office, Neurophysiology of Cognition division; 2016.
    - US Army Research Office, Neurophysiology and Cognitive Neuroscience division; 2014.

Conference submission reviewer:

- Psychonomic Society: Graduate Conference Awards (2025).
- Psychonomic Society: Graduate Conference Awards (2024).
- Psychonomic Society: Graduate Conference Awards (2023).
- Psychonomic Society: J. Frank Yates Travel Award Reviewer (2019).
- Psychonomic Society: Review Committee (2018).
- Rocky Mountain Psychological Association meeting 2018.
- CogSci 2018: The annual meeting of the Cognitive Science Society.
- CogSci 2017: The annual meeting of the Cognitive Science Society.
- CogSci 2016: The annual meeting of the Cognitive Science Society.
- CogSci 2015: The annual meeting of the Cognitive Science Society.

External reviewer for faculty Promotion and Tenure:

- Caglar Tas (to Associate Professor), University of Tennessee Knoxville (Summer 2025)
- Jason Watson (to Full Professor), University of Colorado, Denver (Summer 2025)

Textbook Advisory Board:

- Pearson Publishers (Fall 2016 – Fall 2019).

Textbook / Resource Evaluator:

- *Sensation & Perception 5th Edition* by Wolfe et al., Oxford University Press (Spring, 2018).
- *Cognitive Psychology* by Ball, Butler, Sherman, and St Clair-Thompson, Palgrave Publishers (Fall, 2017).
- *Think Psychology 2019* program by Pearson Publishers (Spring, 2017).
- *Cognitive Psychology: Connecting Mind, Research, and Everyday Experience (5th Edition)* by Bruce Goldstein, Cengage Publishers (Fall 2016).
- *Social Research Methods: A Student's Life* by Wendy Heath, Cambridge University Press (Summer 2016; Fall 2016).
- Cognitive Tool Kit (online Cognitive Psychology experiments), Worth Publishers (Spring, 2014).

Textbook / Resource Creator:

- Online material creation for E. Bruce Goldstein's "Cognitive Psychology 5th Edition." Cengage learning (Summer 2016 – Fall 2017).

- Online material creation for E. Bruce Goldstein's "Sensation and Perception, 10th Edition." Cengage Learning (Summer 2015 – Fall 2016).

Professional volunteer work:

- Mentorship panelist for NMSU McNair Program (Spring, 2026).
- Session chair at the 2025 Annual Meeting of the Psychonomic Society (session on Attention; Denver, CO; November 2025).
- Panelist, *NMSU Research and Creativity week panel* "Ascent to R1." (Spring, 2025).
- Panelist, *NMSU Undergraduate Research and Creative Arts Symposium panel* "Considering graduate school?" (Spring, 2025).
- Poster judge for NMSU McNair Program (Spring, 2025).
- Panelist, *NMSU Center for Undergraduate Research and Creative Activity* "Pathways to Research and Creative Scholarships: Hear from Faculty Mentors and Undergraduates" panel (Fall, 2024).
- Panelist for NMSU NM-INBRE grant NISE Program "Applying to graduate school" panel (June 2024).
- Talk judge for NMSU *Undergraduate Research and Creative Arts Symposium* (April, 2024).
- Presenter at El Paso Community College's Psychology Career Day (April, 2024).
- Career panelist for NMSU McNair Program (Spring, 2024).
- Poster judge for NMSU McNair Program (Spring, 2024).
- Laboratory host at NMSU "Research and Creativity Open House" (October, 2023).
- Panelist, NMSU *Graduate Research and Arts Symposium* (Fall 2023).
- Faculty judge at NMSU "Research and Creativity Week" (February, 2023).
- Laboratory host at NMSU "Research and Creativity Open House" (October, 2022).
- Speaker at the "Ask a Scientist" booth at Washington DC's "Awesome-Con" science, comics, and sci-fi conference (August 2021).
- Hosted Ciudad Nueva Community Outreach group at the *Addison Care Virtual and Augmented Reality Laboratory* (January, 2020).
- Panelist for NMSU College of Arts and Sciences "Up Late at State" movie event (September, 2019).
- Panelist, NMSU *Graduate Research and Arts Symposium* (Spring 2019).
- Moderator for *2018 Rocky Mountain Psychological Association Meeting* (April 2018).
- Presenter at *Object Perception, Attention, and Memory Meeting's* "Networking Breakfast." (November, 2017).
- Assistant to Asombro Institute for Science Education presentations to Vista Middle School (Las Cruces, NM; December 2015).
- Presenter at El Paso Community College's Psychology Career day (April 2015).
- Presenter for the NMSU chapter of Psi Chi (March 2015).
- Vision Sciences Society Conference, Illusion Contest volunteer (May 2014).
- Presenter at El Paso Community College's Psychology Career Day (April 2014).
- Session chair at the 2014 Graduate Student Research & Arts Symposium (GRAS; March 2014).

## Professional Service (departmental and university service)

Departmental Service:

- Graduate Program Coordinator (NMSU; Summer 2023 – Summer 2024).
- Member of the Promotion and Tenure Committee (NMSU; Fall 2018 – present).
- Member of the Graduate Studies Committee (NMSU; Fall 2013 – Summer 2015; Fall 2018 – Summer 2024).
- Member of the Undergraduate Studies Committee (NMSU; Fall 2015 – Spring 2018).
- Member of the Graduate Quantitative Psychology Committee (NMSU; Fall 2013 – Spring 2020).

Search Committee membership:

- Member of Search Committee for cluster hire in Applied Artificial Intelligence (3 hires; Fall, 2025).
- Member of Search Committee for Associate Vice President of Research position (Spring, 2025).
- Member of Search Committee for Vice President of Research position (Spring, 2025).
- Member of Search Committee for College of HEST Dean position (Fall 2024 – Spring 2025).
- Member of the Psychology Faculty Search Committee (NMSU; Fall 2023 – Spring 2024).
- External Member of Faculty Search Committee (Department of Kinesiology; Fall 2022).

- Member of the Psychology Faculty Search Committee (NMSU; Fall 2016 – Spring 2017).
- Member of the Psychology Faculty Search Committee (NMSU; Fall 2015 – Spring 2016).

Promotion and Tenure committee membership:

- Chair of Faculty Promotion and Tenure Committee (replacement) on Promotion Committee (Department of Kinesiology; Fall 2025 – Spring 2026).
- Department Chair role (replacement) on Promotion and Tenure Committee (Department of Sociology; Fall 2025 – Spring 2026).
- Chair of Faculty Promotion and Tenure Committee (Department of Communication Disorders; Fall 2024 – Spring 2025).
- External Member of Faculty Promotion and Tenure Committee (Department of English; Fall 2023 – Spring 2024).
- External Reviewer, Promotion and Tenure Review Committee (Department of Kinesiology; Fall 2021).

University Award Committee Membership:

- College of Arts and Sciences' *Arts and Humanities Seed Grant* reviewer (Spring, 2026).
- College of Arts and Sciences' *Arts and Humanities Seed Grant* reviewer (Fall, 2025).
- College of Arts and Sciences' *Arts and Humanities Seed Grant* reviewer (Fall, 2024).
- Member of the College of Arts and Sciences "Faculty, post-doc, and grad student travel awards" Committee (Spring 2024 – Summer 2024).
- Member of the College of Arts and Sciences "Exempt staff awards" Committee (Spring 2024 – Summer 2024).
- Member of the College of Arts and Sciences "Non-exempt staff awards" Committee (Spring 2024 – Summer 2024).
- College of Arts and Sciences' *Arts and Humanities Seed Grant* reviewer (Fall, 2023).
- Member of the College of Arts and Sciences Award Committee (Fall 2017 – Spring 2020).
- Honors College International Scholarship, member of selection panel (Spring 2017).
- Research presentation judge, NMSU Alliance for Minority Participation (AMP) Undergraduate Student Research Conference. (October 2016).
- Member of the College of Arts and Sciences Award Committee (Fall 2015 – Summer 2017).

Formal Faculty Mentorship:

- Toni Rouhana (Dept of Sociology); NMSU Teaching Academy Team Mentorship Program (Fall 2025 – Spring 2026).
- Julia Soares (Dept of Psychology); NMSU Teaching Academy Team Mentorship Program (Fall 2025 – Spring 2026).

Miscellaneous University Service:

- NMSU Institute for Applied Practice in AI and Machine Learning *"AI Day"* steering committee member (Summer, 2025).
- Advisory Board member, *Center for Undergraduate Research and Creative Activity* (Summer 2023 – present).
- Journal reviewer, *The Agora* (undergraduate research journal; February 2023).
- Faculty Senate Grievance Review Board, elected member (Fall 2022 – Summer 2024).

Faculty Advisor to Student Organizations:

- Psi Chi (the National Undergraduate Honor's Society in Psychology) NMSU chapter. (Spring 2015 – Fall 2018)
- Organization for Skepticism and Scientific Literacy. (Fall 2016 – Spring 2017)

## Professional Service (students supervised and committee membership)

-- *Unless otherwise noted, all students are/were members of the Psychology Department at New Mexico State University*

Post-doctoral Researchers Supervised:

- Giovanna Del Sordo (Spring 2025 – present)

Doctoral Students Supervised (co-supervised students are denoted by asterisks *):

- Ashley Mathis (Summer 2025 – present)
- Eben Daggett (Summer 2023 – Fall 2025)
- Sydney (Aiden) Schabacker (Fall 2023 – Spring 2025; dismissed from the program)
- Giovanna Del Sordo (Summer 2023 – Fall 2024)
- Rebecca Penn (Spring 2019 – Summer 2025; withdrew from the program)
- Bryan White (Fall 2018 – Summer 2025)
- Jessica Madrid (Fall 2016 – Spring 2024; withdrew from the program)

- Dre Goode (Fall 2018 – Spring 2021; dismissed from the program)
- Edin Sabic (Fall 2018 – Spring 2020)
- Collin Scarince (Fall 2015 – Summer 2018)
- Ryan Sams (Fall 2015 – Spring 2017; withdrew from the program)
- Carrie Melia (Fall 2014 – Fall 2016; withdrew from the program)
- *Nathaniel Shaver (Fall 2014 – Spring 2016; Interdisciplinary, dismissed from the program)
- Arryn Robbins (Spring 2014 – Spring 2018)

Master's Students Supervised:

- Ashley Mathis (Fall 2023 – Summer 2025)
- Eben Daggett (Fall 2021 – Summer 2023)
- Hailey Sandin (Fall 2017 – Summer 2021; withdrew from the program)
- Rebecca Skulsky (Fall 2019 – Summer 2021)
- Rebecca Penn (Fall 2017 – Winter 2019)
- Summer Lileck (Fall 2015 – Spring 2018; dismissed from the program)
- Jessica Madrid (Fall 2014 – Fall 2016)
- Ryan Sams (Fall 2014 – Fall 2015)
- Collin Scarince (Fall 2014 – Summer 2015)
- Casey Tunstall (Fall 2013 – Fall 2014)

Undergraduate Research Scholars Supervised:

- Michelle Kass (Spring 2026 – present; Discovery Scholars Program)
- Jon Art (Summer 2025 – present; Discovery Scholars Program)
- Mayte Alonso (Fall 2024 – Summer 2025; Discovery Scholars Program)
- Virginia Millsap (Summer 2024 – Spring 2025; Honors College Capstone Thesis Program)
- Crystal Parra (Summer 2023 – present; Discovery Scholars Program)
- Janelle Hernandez (Spring 2023 – present; Discovery Scholars Program)
- Emily Stutesman (Fall 2022 – Summer 2024; Discovery Scholars Program)
- Marko Hernandez (Fall 2022 – present; Discovery Scholars Program)
- Julián Welsh (Spring 2021 – Summer 2021; Building Research Advances in Neuroscience [BRAiN] Training Program)
- Mariana Cazares Rodriguez (Spring 2020 – Spring 2021; Discovery Scholars Program)
- Jonathan Ayavar (Spring 2020 – Spring 2021; Discovery Scholars Program)
- Kitt Phi (Spring 2019 – Fall 2020; Discovery Scholars Program)
- Victoria Arvizu (Spring 2019 – Spring 2020; Discovery Scholars Program)
- Christine Dellefield-Lopez (Spring 2019 – Spring 2020; Discovery Scholars Program)
- Rene McPherson (Spring 2019 – Summer 2019; Discovery Scholars Program)
- Sydney Candelaria (Spring 2019 – Summer 2019; Discovery Scholars Program)
- John DesGeorges (Summer 2016 – Spring 2018; Discovery Scholars Program, Honors College Capstone Thesis Program)
- Emily Green (Summer 2016 – Fall 2017; Honors College Capstone Thesis Program)
- Maggie Sabik (Summer 2015 – Spring 2016; Building Research Advances in Neuroscience [BRAiN] Training Program)
- Alexis Lopez (Spring 2016 – Summer 2016; Discovery Scholars Program)
- Garrett Bennett (Summer 2015 – Fall 2015; Discovery Scholars Program)

Students financially supported (undergraduate work-study students are denoted by asterisks *):

- Ashley Mathis (Psychology, Spring 2026)
- Mallory Weber (Psychology, Spring 2026)
- *Jon Art (Psychology, Fall 2025 – Spring 2026)
- Giovanna Del Sordo (Psychology post-doc, Spring 2025 – present)
- Ashley Mathis (Psychology, Summer 2025)
- Giovanna Del Sordo (Psychology, Summer 2024)
- Ashley Mathis (Psychology, Summer 2024)
- Bryan White (Psychology, Summer 2024)
- *Paean Luby (Psychology, visiting, Fall 2023 – Summer 2024)
- *Jonathan Ayavar (Computer Science and the Creative Media Institute, Fall 2019 – Summer 2021)
- Saleem Masadeh (Computer Science, Summer 2019 – Summer 2020)
- *Kitt Phi (Computer Science, Summer 2019 – Spring 2020)

- *Phillip Powell (Computer Science, Spring 2020)

Master's Thesis Committees:

- As chair:
  - Ashley Mathis (*June 2025*)
  - Eben Daggett (*June 2023*)
  - Rebecca Skulsky (*July 2021*)
  - Hailey Sandin (*withdrew July 2021*)
  - Rebecca Penn (*January 2020*)
  - Summer Lileck (*dismissed May 2018*)
  - Jessica Madrid (*October 2016*)
  - Ryan Sams (*November 2015*)
  - Collin Scarince (*July 2015*)
  - Casey Tunstall (*December 2014*)

- As member (as Dean's representative †):
  - Tyler Chatterton (*May 2025*)
  - Cassie Oberhauser (*April 2025*)
  - Adam Bull (Psychology, *January 2025*) – Macquarie University, Australia
  - Rene Mcpherson (*withdrew July 2024*)
  - Shelby O'Leary (*July 2024*)
  - Jennifer Martinez (*June 2024*)
  - Danielle Walker (*June 2024*)
  - Ashley Zappe (*June 2023*)
  - Arianna Thoksakis (*April 2022*)
  - Giovanna Del Sordo (*June 2020*)
  - †Katie Giesler (Clinical Mental Health Counseling, *April 2020*)
  - †JeSeung Park (Computer Science, *November 2019*)
  - Mary Berg (*April 2019*)
  - Audrey Morrow (*October 2018*)
  - Bryan White (*August 2018*)
  - †Shane Alvarez (Computer Science, *May 2018*)
  - †Francesco Fabiano (Computer Science, *April 2018*)
  - †Christabel Castro (Animal and Range Sciences, *April 2017*)
  - Juan Guevara Pinto (*November 2016*) – Louisiana State University.
  - Hunter Myuz (*October 2016*)
  - Alexander VanHoudt (*May 2016*)
  - Naveen Dass (*April 2016*)
  - †Anthony Tome (English MFA, *March 2016*)
  - Kyle Brady (*November 2015*) – Arizona State University, Polytechnic.
  - C. Brooks Volkman (Psychology, *November 2014*)
  - Stephen C. Walenchok (Psychology, *June 2014*) –Arizona State University.

Master's Thesis Qualifying Exam Committees:

- As chair:
  - Sydney (Aiden) Schabacker (*November 2023*)
  - Carrie Anne Melia (*September 2014*)

- As member:
  - Rain Simons (*March 2023*)
  - Sarah Wheat (*May 2020*)
  - Dre Good (*November 2018*)
  - John Dennem (*October 2015*)
  - Yogesh Raut (*December 2013*)
  - Lindsay Ruckel (*September 2013*)

PhD Comprehensive Exams Committees:

- As chair (as co-chair *):
  - Ashley Mathis (*pending*)
  - Rebecca Penn (*withdrew August 2025*)
  - Sydney (Aiden) Schabacker (*dismissed May 2025*)
  - Eben Daggett (*January 2024*)
  - Bryan White (*August 2021*)
  - Dre Goode (*dismissed June 2021*)
  - Jessica Madrid (*November 2018*)
  - Collin Scarince (*October 2016*)
  - *Nathaniel Shaver (Interdisciplinary, *May 2016*)
  - Arryn Robbins (*October, 2014*)

- As member (as Dean's representative †):
  - †Elisabeth Zeitz (Kinesiology; *December 2025*)
  - Manali Pathare (*May 2025*)
  - Rain Simons (*May 2025*)
  - Giovanna Del Sordo (*April 2023*)
  - †Sean Cochran (Kinesiology, *May 2022*)
  - †Moe Manshad (Computer Science, *October 2018*)
  - Edin Sabic (*October 2018*)
  - Daniel Henning (*August 2018*)

- Juan Guevara Pinto (*April 2018*) – Louisiana State University.
- John Dennem (*dismissed June 2017*)
- Hunter Myuz (*May 2017*)
- Stephen C. Walenchok (*January 2016*) – Arizona State University.
- Yogesh Raut (*July 2015*)
- Lindsay Ruckel (*September 2014*)
- Youngjin Kang (*April 2014*)

Doctoral Dissertation Committees (as co-chair *):

- As chair:
  - Eben Daggett (*November 2025*)
  - Bryan White (*July 2025*)
  - *Giovanna Del Sordo (*October 2024*)
  - Jessica Madrid (*withdrew Spring 2024*)
  - Edin Sabic (*April 2020*)
  - Collin Scarince (*July 2018*)
  - Arryn Robbins (*April 2018*)
- As member (as Dean's representative †):
  - Manali Pathare (*pending*)
  - Elisabeth Zeitz (Kinesiology; *pending*)
  - †Sean Cochran (Kinesiology; *July 2023*)
  - Ashely Ercolino/Phelps (*March 2023*) – University of Central Florida.
  - Diane Baier (*December 2021*) – University of Vienna.
  - Daniel Henning (*December 2021*)
  - Hunter Myuz (*June 2020*)
  - Juan Guevara Pinto (*February 2020*) – Louisiana State University.
  - Adam Underwood (*April 2019*)
  - †Moe Manshad (Computer Science, *April 2019*)
  - Stephen C. Walenchok (*November 2018*) – Arizona State University.
  - John Kulpa (*April 2018*)
  - Yogesh Raut (*dismissed June 2017*)
  - Jesse Marczyk (*February 2016*)
  - Daniel Gambacorta (*March 2015*)
  - Jeremy Schwark (*April 2014*)

Fulbright Scholar Mentor/Host:

- Scholar: Andras Norbert Zsido from University of Pécs (Hungary); not awarded (October 2021).
- Scholar: Andras Norbert Zsido from University of Pécs (Hungary); not awarded (October 2020).
- Scholar: Andras Norbert Zsido from University of Pécs (Hungary); not awarded (October 2019).

Preparing Future Faculty Program, Faculty Advisor (New Mexico State University):

- Advisee: Ryan Sams (Fall 2016 – Spring 2017)
- Advisee: Carrie Melia (Fall 2015 – Spring 2016)
- Advisee: Collin Scarince (Fall 2014 – Spring 2015)

High school apprenticeship program, Faculty Co-Advisor (New Mexico State University):

- Advisee: Katrina Ling (2014-2015)