JORDAN WILLIAM SUCHOW

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EDUCATION & EMPLOYMENT

2019— *Assistant Professor*, Stevens Institute of Technology
2016–2018 *Research Scientist*, University of California, Berkeley
2014–2016 *Postdoctoral Fellow*, University of California, Berkeley
2014 *Ph.D. in Psychology*, Harvard University
2011 *A.M. in Psychology*, Harvard University
2009 *B.S. in Computer Science*, Brandeis University
—2008 *Junior Research Scientist*, New York University

PEER-REVIEWED JOURNAL ARTICLES

1. Aczel, B., et al. [incl. Suchow, J. W.] (2026). Investigating the analytical robustness of the social and behavioural sciences. *Nature*, *652*, 135–142.
2. Miske, O., et al. [incl. Suchow, J. W.] (2026). Investigating the reproducibility of the social and behavioural sciences. *Nature*, *652*, 126–134.
3. Yu, Y.,† Li, H.,† Chen, Z.,† Jiang, Y.,† Li, Y.,† Suchow, J. W., Zhang, D. & Khashanah, K. (2025). FinMem: A performance-enhanced LLM trading agent with layered memory and character design. *IEEE Transactions on Big Data*, *11*(6), 3443–3459.
4. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2025). Measuring the semantic priming effect across many languages. *Nature Human Behaviour*, *10*, 182–201.
5. Breznau, N., et al. [incl. Suchow, J. W.] (2025). The reliability of replications: A study in computational reproductions. *Royal Society Open Science*, *12*, 241038.
6. Almaatouq, A., Griffiths, T. L., Suchow, J. W., Whiting, M. E., Evans, J. & Watts, D. J. (2024). Beyond playing 20 questions with nature: Integrative experiment design in the social and behavioral sciences. *Behavioral and Brain Sciences*, *47*, e65.
7. Suchow, J. W., McDowell, M., Huang, J. & Haberman, J. (2024). A reflection on faces seen under mirror reversal. *Perception*, *53*(11–12), 763–774.
8. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2023). The Psychological Science Accelerator's COVID-19 rapid-response dataset. *Scientific Data*, *10*, 87.
9. Morgan, T. J. H.,† Suchow, J. W.† & Griffiths, T. L. (2022). The experimental evolution of human culture: Flexibility, fidelity and environmental instability. *Proceedings of the Royal Society B*, *289*, 20221614.

10. Peterson, J. C., Uddenberg, S. D., Griffiths, T. L., Todorov, A. T. & Suchow, J. W. (2022). Deep models of superficial face judgments. *Proceedings of the National Academy of Sciences*, *119*(17), e2115228119.

11. Legate, N., et al. [incl. Suchow, J. W.] (2022). A global experiment on motivating social distancing during the COVID-19 pandemic. *Proceedings of the National Academy of Sciences*, *119*(22), e2111091119.

12. Dorison, C. A., et al. [incl. Suchow, J. W.] (2022). In COVID-19 health messaging, loss framing increases anxiety without concomitant benefits: Experimental evidence from 84 countries. *Affective Science*, *3*, 577–602.

13. Wang, K., et al. [incl. Suchow, J. W.] (2021). A multi-country test of brief reappraisal interventions on emotions during the COVID-19 pandemic. *Nature Human Behaviour*, *5*, 1089–1110.

14. Jones, B. C., et al. [incl. Suchow, J. W.] (2021). To which world regions does the valence–dominance model of social perception apply? *Nature Human Behaviour*, *5*, 159–169.

15. Gates, V., Suchow, J. W. & Griffiths, T. L. (2021). Memory transmission in small groups and large networks: An empirical study. *Psychonomic Bulletin & Review*, *28*, 1283–1293.

16. Langlois, T., Jacoby, N., Suchow, J. W. & Griffiths, T. L. (2021). Serial reproduction reveals the geometry of visuospatial representations. *Proceedings of the National Academy of Sciences*, *118*(13), e2012938118.

17. Morgan, T. J. H.,† Suchow, J. W.† & Griffiths, T. L. (2020). Experimental evolutionary simulations of learning, memory and life-history. *Philosophical Transactions of the Royal Society B*, *375*(1803), 1–11.

18. Morgan, T. J. H., Suchow, J. W. & Griffiths, T. L. (2020). What the Baldwin Effect affects depends on the nature of plasticity. *Cognition*, *197*, 1–10.

19. Landy, J. F., et al. [incl. Suchow, J. W.] (2020). Crowdsourcing hypothesis tests: Making transparent how design choices shape research results. *Psychological Bulletin*, *146*(5), 451–479.

20. Project Jupyter, Blank, D., Bourgin, D., Brown, A., Bussonnier, M., Frederic, J., Granger, B., Griffiths, T. L., Hamrick, J., Kelley, K., Pacer, M. D., Page, L., Pérez, F., Ragan-Kelley, B., Suchow, J. W. & Willing, C. (2019). nbgrader: A tool for creating and grading assignments in the Jupyter Notebook. *Journal of Open Source Education*, *2*(11), 32.

21. Suchow, J. W., Bourgin, D. D. & Griffiths, T. L. (2017). Evolution in mind: Evolutionary dynamics, cognitive processes, and Bayesian inference. *Trends in Cognitive Sciences*, *21*(7), 522–530.

22. Suchow, J. W., Fougnie, D. & Alvarez, G. A. (2016). Looking inwards and back: Real-time monitoring of visual working memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *43*(4), 660–668.

23. Suchow, J. W. (2015). Building a social network one choice at a time. *PLOS ONE*, *10*(7), e0133463.

24. Suchow, J. W., Fougnie, D., Brady, T. F. & Alvarez, G. A. (2014). Terms of the debate on the format and structure of visual memory. *Attention, Perception, & Psychophysics*, *76*(7), 2071–2079.

25. Suchow, J. W.,† Brady, T. F.,† Fougnie, D. & Alvarez, G. A. (2013). Modeling visual working memory with the MemToolbox. *Journal of Vision*, *13*(10):9, 1–8.

26. Fougnie, D., Suchow, J. W. & Alvarez, G. A. (2012). Variability in the quality of visual working memory. *Nature Communications*, *3*(1229), 1–8.
27. Suchow, J. W. & Pelli, D. G. (2012). Learning to detect and combine the features of an object. *Proceedings of the National Academy of Sciences*, *110*(2), 785–790.
28. Suchow, J. W. & Alvarez, G. A. (2011). Motion silences awareness of visual change. *Current Biology*, *21*, 140–143.

ARCHIVAL CONFERENCE PAPERS

1. Li, H.,† Cao, Y.,† Yu, Y.,† Javaji, S. R., Deng, Z., He, Y., Jiang, Y., Zhu, Z., Subbalakshmi, K. P., Huang, J., Qian, L., Peng, X., Xie, Q. & Suchow, J. W. (2025). InvestorBench: A benchmark for financial decision-making tasks with LLM-based agents. *ACL 2025*.
2. Yu, Y.,† Yao, Z.,† Li, H.,† Deng, Z.,† Jiang, Y.,† Cao, Y.,† Chen, Z.,† Suchow, J. W., Cui, Z., Liu, R., Xu, Z., Zhang, D., Subbalakshmi, K., Xiong, G., He, Y., Huang, J., Li, D. & Xie, Q. (2024). FinCon: A synthesized LLM multi-agent system with conceptual verbal reinforcement for enhanced financial decision making. *NeurIPS 2024*.
3. Pacer, M. D. & Suchow, J. W. (2016). Linting science prose and the science of prose linting. *SciPy 2016*.

PATENTS

1. Todorov, A. T., Uddenberg, S. D., Peterson, J. C., Griffiths, T. L. & Suchow, J. W. (2023). Data-driven, photorealistic social face-trait encoding, prediction, and manipulation using deep neural networks (continuation of U.S. Patent No. 11,250,245). U.S. Patent No. 11,727,717.
2. Todorov, A. T., Uddenberg, S. D., Peterson, J. C., Griffiths, T. L. & Suchow, J. W. (2022). Data-driven, photorealistic social face-trait encoding, prediction, and manipulation using deep neural networks. U.S. Patent No. 11,250,245.

SCIENCE FICTION

1. Suchow, J. W. (*in press*). Book of Cron Job. *Nature*.
2. Suchow, J. W. (2011). NPG's policy on authorship. *Nature*, *477*, 244.

COMMENTARIES & REPLIES

1. Almaatouq, A., Griffiths, T. L., Suchow, J. W., Whiting, M. E., Evans, J. & Watts, D. J. (2024). Replies to commentaries on beyond playing 20 questions with nature. *Behavioral and Brain Sciences*, *47*, 1–6.
2. Suchow, J. W. (2023). Scaling up behavioral studies of visual memory. *Nature Human Behaviour*, *7*, 672–673.
3. Suchow, J. W. (2022). Shadow banning, astroturfing, catfishing, and other online conflicts where beliefs about group membership diverge. *Behavioral and Brain Sciences*, *45*, e122.
4. Fan, J. E. & Suchow, J. W. (2014). The crowd is self-aware. *Behavioral and Brain Sciences*, *37*(1), 81–82.

NON-ARCHIVAL CONFERENCE PAPERS

1. Yu, Y. & Suchow, J. W. (2024). Actively learning a Bayesian matrix fusion model with deep side information. *CogSci 2024*.
2. Gürkan, N. & Suchow, J. W. (2024). Exploring public opinion on responsible AI through the lens of cultural consensus theory. *HICSS 2024*.
3. Suchow, J. W., Burton, L. & Ashrafimoghari, V. (2023). The design and operation of digital platforms under folk theories of sociotechnical systems. *AMCIS 2023*.
4. Gürkan, N. & Suchow, J. W. (2023). Predicting judgments of food healthiness with deep latent-construct cultural consensus theory. *CogSci 2023*.
5. Suchow, J. W. & Ashrafimoghari, V. (2022). The paradox of learning categories in a market that values rarity: A case study of NFTs & The Bored Ape Yacht Club. *CogSci 2022*.
6. Gürkan, N. & Suchow, J. W. (2022). Learning and enforcing a cultural consensus in online communities. *CogSci 2022*.
7. Langlois, T., Jacoby, N., Suchow, J. W. & Griffiths, T. L. (2019). Orthogonal multi-view three-dimensional object representations in memory revealed by serial reproduction. *CogSci 2019*.
8. Suchow, J. W.,† Peterson, J.† & Griffiths, T. L. (2018). Learning a face space for experiments on human identity. *CogSci 2018*.
9. Paxton, A., Morgan, T. J. H., Suchow, J. W. & Griffiths, T. L. (2018). Interpersonal coordination of perception and memory in real-time online social interaction. *CogSci 2018*.
10. Peterson, J., Aghi, K., Suchow, J. W., Ku, A. & Griffiths, T. L. (2018). Capturing human category representations by sampling in deep feature spaces. *CogSci 2018*.
11. Langlois, T., Jacoby, N., Suchow, J. W. & Griffiths, T. L. (2017). Uncovering visual priors in spatial memory using serial reproduction. *CogSci 2017*.
12. Gates, V., Suchow, J. W. & Griffiths, T. L. (2017). Empirical tests of large-scale collaborative recall. *CogSci 2017*.
13. Suchow, J. W., Pacer, M. D. & Griffiths, T. L. (2016). Design from zeroth principles. *CogSci 2016*.
14. Suchow, J. W. & Griffiths, T. L. (2016). Deciding to remember: Memory maintenance as a Markov Decision Process. *CogSci 2016*.

MUSEUM EXHIBITS

1. (2021) Mindworks at Chicago Booth. The museum features a demonstration of the face-morphing techniques introduced in Peterson et al. (2022) and patented in Todorov et al. (2022, 2023).
2. (2017) Carl Bosch Museum, Heidelberg. The silencing illusion was featured in a special exhibit on illusions.
3. (2011) The Exploratorium, San Francisco. A physical installation demonstrating the silencing illusion is in their permanent collection.

WORKSHOP PAPERS

1. Li, H., Cao, Y., Yu, Y., Suchow, J. W. & Zhu, Z. (2025). Truth neurons. *KnowFM workshop at ACL 2025*.
2. Yu, Y., Li, H., Cao, Y., Wang, K., Deng, Z., Yao, Z., Jiang, Y., Li, D., Weng, R.-L. & Suchow, J. W. (2025). FinNLP-FNP-LLMFinLegal @ COLING 2025 shared task: Agent-based single cryptocurrency trading challenge. *FinNLP workshop at COLING 2025*.
3. Yu, Y., Li, H., Cao, Y., Wang, K., Deng, Z., Yao, Z., Jiang, Y., Li, D., Weng, R.-L. & Suchow, J. W. (2024). FinNLP-AgentScen-2024 shared task: Financial challenges in large language models — FinLLMs. *FinNLP workshop at ACL 2024*.
4. Yu, Y.,† Li, H.,† Chen, Z.,† Jiang, Y.,† Li, Y.,† Zhang, D., Liu, R., Suchow, J. W. & Khashanah, K. (2024). FinMem: A performance-enhanced LLM trading agent with layered memory and character design. *LLMAgents workshop at ICLR 2024*.
5. Gürkan, N. & Suchow, J. W. (2022). Cultural alignment of machine-vision representations. *SVRHM workshop at NeurIPS 2022*.
6. Yu, Y. & Suchow, J. W. (2022). Deep tensor factorization models of first impressions. *SVRHM workshop at NeurIPS 2022*.
7. Suchow, J. W. & Nickerson, J. V. (2022). Pragmatic delegation of work by humans and machines. *TRAIT workshop at CHI 2022*.
8. Peterson, J. C., Aghi, K., Suchow, J. W., Ku, A. & Griffiths, T. L. (2018). Capturing human category representations by sampling in deep feature spaces. *ICLR 2018 workshop track*.
9. Suchow, J. W. & Griffiths, T. L. (2016). Rethinking experiment design as algorithm design. *CrowdML workshop at NeurIPS 2016*.

SOFTWARE

1. Dallinger (https://github.com/Dallinger/Dallinger). Laboratory automation for the behavioral and social sciences. Used in 70+ research papers, including work published in *Science*, PNAS, and NeurIPS.
2. MemToolbox (https://github.com/visionlab/MemToolbox). A MATLAB toolbox for Bayesian modeling of visual working memory. Cited in 350+ papers.
3. Wallace (https://github.com/suchow/Wallace). A platform for simulating cultural evolution in structured populations using crowdsourced experiments.
4. Proselint (https://github.com/amperser/proselint). A linter for prose. 4.5k GitHub stars; integrated into writing tools at Google and elsewhere.
5. Dissertate (https://github.com/suchow/Dissertate). LaTeX templates for a dissertation. 750 GitHub stars; adopted at 30+ universities.
6. nbgrader (https://github.com/jupyter/nbgrader). A tool for creating and grading assignments in the Jupyter Notebook. 1.4k GitHub stars.

BOOK CHAPTERS

1. Suchow, J. W. & Alvarez, G. A. (2017). Silencing the awareness of change. *The Oxford Compendium of Visual Illusions*, Oxford University Press.

POPULAR MAGAZINE ARTICLES

1. Suchow, J. W. (2018). Haven't we met before? On doppelgängers and perception. *Aeon*.
2. Suchow, J. W. (2005). Seeing things: Visual perception research at NYU. *Imagine Magazine*.

THESES

1. Suchow, J. W. (2014). Measuring, monitoring, and maintaining memories in a partially observable mind. Ph.D. dissertation, Harvard University.

WHITE PAPERS

1. Almaatouq, A., Becker, J. A., Bernstein, M., Botto, R., Bradlow, E., Damer, E., Duckworth, A. L., Griffiths, T. L., Hartshorne, J. K., Law, E., Lazer, D., Liu, M., Matias, J. N., Rand, D. G., Salganik, M., Satlof-Bedrick, E., Schweitzer, M., Shirado, H., Suchow, J. W., Suri, S., Tsvetkova, M., Watts, D. J., Whiting, M. E. & Yin, M. (2021). Scaling up experimental social, behavioral, and economic science. *OSF White Paper*.
2. Suchow, J. W. (2017). An architecture for automated estimation of the reliability, reproducibility, and robustness of behavioral and social science research. *White paper @ DARPA RFI*.

GRANTS & FUNDING

Total: $3,813,000. As PI at Stevens: $841,000.

1. Corporate support from a Fortune 500 financial services company. *Research on Bayesian data fusion and related techniques.* PI at Stevens. 2021–2023. $210,000.
2. Center for Open Science (DARPA SCORE subcontract). *Data Enhancement to the DARPA SCORE Claims Dataset.* PI at Stevens. 2020–2021. $15,000.
3. Center for Open Science (DARPA SCORE subcontract). *Replication of Long et al. (2015).* PI at Stevens. 2020–2021. $10,000.
4. DARPA Defense Sciences Office, NGS2 program (sub-award via UC Berkeley). *Culture on a chip.* PI at Stevens. 2019–2020. $606,000.
5. DARPA Defense Sciences Office, NGS2 program. *Culture-on-a-chip computing.* PI at UC Berkeley. 2016–2018. $2,800,000.
6. NSF Directorate for Social, Behavioral & Economic Sciences. *Postdoctoral Research Fellowship.* Co-PI at UC Berkeley. 2014–2016. $172,000.

PENDING PATENT APPLICATIONS

1. Suchow, J. W. (2025). Systems and method for automated end-to-end computational reproducibility auditing of scientific research. Filed by Stevens Institute of Technology. *Pending.*
2. Suchow, J. W. & Ashrafimoghari, V. (2024). Information systems that detect, diagnose, and mitigate cognitive biases. Filed by Stevens Institute of Technology. *Pending.*

OTHER INVENTION DISCLOSURES

1. Suchow, J. W. (2021). *The total eclipse ban.* Disclosed to Stevens Institute of Technology's Office of Innovation and Entrepreneurship.

2. Suchow, J. W. (2015). *Methods and compositions for determining differences in taste perception.* Disclosed to UC Berkeley's Office of Intellectual Property and Industry Research Alliances.
3. Suchow, J. W. (2012). *Antisilencing.* Disclosed to Harvard University's Office of Technology Development.

VISUAL DEMONSTRATIONS

1. Suchow, J. W., Peterson, J. C., & Uddenberg, S. (2019). SocialGAN. *Vision Sciences Society Demo Night*.
2. Suchow, J. W. & Haberman, J. (2013). Reflections on a true mirror. *Vision Sciences Society Demo Night*.
3. Suchow, J. W., Jungé, J., & Alvarez, G. A. (2012). Touching and interpreting hallucinated patterns in dynamic visual noise. *Vision Sciences Society Demo Night*.
4. Suchow, J. W., Nakayama, K., & Vaziri-Pashkam, M. (2011). Disembodied eyes and mouth illusion. *Vision Sciences Society Demo Night*.
5. Suchow, J. W. & Alvarez, G. A. (2010). Silencing. *Vision Sciences Society Demo Night*. [1st prize, Neural Correlate Society's 2011 Best Visual Illusion of the Year contest]

TALKS, PRESENTATIONS, TUTORIALS & POSTERS

1. Suchow, J. W. (2025). Coincidental generation by AI. TEDx Stevens.
2. Suchow, J. W. (2025). Invited talk on management of A.I. technologies. *On the Horizon Summit*, New York, NY.
3. Suchow, J. W. (2025). Invited talk. AAPS-NERDG AI Round Table, Mystic, CT.
4. Suchow, J. W. & Gürkan, N. (2025). Coincidental generation by AI. Treo talk at ICIS 2025, Nashville, TN.
5. Suchow, J. W. & Gürkan, N. (2025). Coincidental generation. Poster at the Privacy Preserving Artificial Intelligence workshop at AAAI, Philadelphia, PA.
6. Yu, Y., Li, H., Chen, Z., Jiang, Y., Li, Y., Zhang, D., Liu, R., Suchow, J. W., & Khashanah, K. (2025). FinMem: A performance-enhanced LLM trading agent with layered memory and character design. ICLR Workshop on Large Language Models for Agents.
7. Suchow, J. W. & Ashrafimoghari, V. (2024). Are cognitive biases relevant to everyday decision making? Talk at SJDM 2024.
8. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2024). What can we learn about two million priming values? Poster at the *Annual Meeting of the Psychonomic Society*, New York, NY.
9. Suchow, J. W. (2023). Invited talk on generative AI. SP Jain Institute of Management & Research, Mumbai, India (virtual).
10. Suchow, J. W., Burton, L., & Ashrafimoghari, V. (2023). The design and operation of digital platforms under folk theories of sociotechnical systems. AMCIS 2023.
11. Suchow, J. W. (2023). Panelist, professional development workshop on experimental digital platforms, Academy of Management CTO division.

12. Fang, Y., Ortega, J., Gürkan, N., Suchow, J. W., & Whitney, D. (2023). Inferential tracking reveals context is more informative than faces in judgments of trustworthiness. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
13. Suchow, J. W. (2023). The design and operation of digital platforms under folk theories of sociotechnical systems. Talk at NEDSI 2023, Arlington, VA.
14. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2023). What can we learn about two million priming values? An update to SPAML. *Big Team Science Conference*.
15. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2023). What can we learn about two million priming values? Poster at the *Annual Meeting of the Psychonomic Society*, San Francisco, CA.
16. Suchow, J. W. (2022). The design and governance of digital platforms under folk theories of sociotechnical systems. Talk at the 18th Annual SIG Cognitive Research Workshop at ICIS 2022, Copenhagen, Denmark.
17. Gürkan, N. & Suchow, J. W. (2022). The infinite cultural consensus model. Talk at *MathPsych/ICCM 2022* (virtual).
18. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2022). Is priming consistent across languages? Poster at the *Annual Meeting of the Psychonomic Society*, Boston, MA.
19. Gürkan, N. & Suchow, J. W. (2022). A virtual assistant for moderators: enforcing social norms in online communities. NEDSI 2022, Newark, NJ.
20. Ashrafimoghari, V. & Suchow, J. W. (2022). A game-theoretic model of consumer behavior under the Pay-What-You-Want pricing strategy. NEDSI 2022, Newark, NJ.
21. Yu, Y., Yang, R., Suchow, J. W., & Liu, R. (2022). Deep modular co-attention networks for online product matching. NEDSI 2022, Newark, NJ.
22. Burton, L., Ashrafimoghari, V., & Suchow, J. W. (2022). Transparency in online community moderation: the case of shadowbanning. NEDSI 2022, Newark, NJ.
23. Saad-Lessler, J., Ashrafimoghari, V., & Suchow, J. W. (2022). Can a virtual "pet" take a bite out of the savings shortfall? Poster at ASSA 2022.
24. Suchow, J. W., Gürkan, N., & Peterson, J. C. (2021). When synthetic portraits do not preserve privacy. *MathPsych 2021* (virtual).
25. Gürkan, N. & Suchow, J. W. (2021). Explaining away differences in face matching. *MathPsych 2021* (virtual).
26. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2021). Creating a cross-referenced multi-linguistic dataset to investigate semantic priming. *Annual Meeting of the Psychonomic Society*.
27. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2021). Adaptive algorithms for stimuli sampling in cognitive studies. *Annual Meeting of the Society for Computation in Psychology*.
28. Gürkan, N. & Suchow, J. W. (2021). Causal inference in face identification, matching, and verification. Poster at the *Vision Sciences Society conference* (virtual).
29. Buchanan, E. M., et al. [incl. Suchow, J. W.] (2021). Cross-linguistic research is hard: Update to SPAML. *Psychological Science Accelerator Conference*.
30. Suchow, J. W. (2020). Dallinger (tutorial). Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany.

31. Suchow, J. W. (2020). Closed-loop crowdsourcing and active experiment design. Talk at *MathPsych 2020*, Toronto, Canada.
32. Suchow, J. W. (2020). Why Bayesian optimal experiment design? Talk and tutorial at the *Scaling Cognitive Science Workshop*, Princeton, NJ.
33. Suchow, J. W. (2020). Dallinger. Talk and tutorial at the *Scaling Cognitive Science Workshop*, Princeton, NJ.
34. Pincus, J. & Suchow, J. W. (2020). Estimating the dimensionality of face space empirically. Poster at *CogSci 2020*, Toronto, Canada.
35. Gürkan, N. & Suchow, J. W. (2020). The Adaptive Glasgow Face Matching Task. Poster at *CogSci 2020*, Toronto, Canada.
36. Pincus, J. & Suchow, J. W. (2020). Estimating the dimensionality of face space empirically. *Neuromatch 2020*.
37. Pincus, J. & Suchow, J. W. (2020). Estimating the dimensionality of face space empirically. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
38. Suchow, J. W. & Griffiths, T. L. (2020). Memory maintenance in a partially observable mind: rationally deciding what to maintain. Talk at CEMS, Philadelphia, PA.
39. Suchow, J. W. (2019). Scaling up experimental simulations of culture. *The Transmission of Songs in Birds, Humans, and Other Animals* workshop, Columbia University, New York, NY.
40. Lall, V. H., Suchow, J. W., Malkomes, G., & Griffiths, T. L. (2019). Automated cognitive modeling with Bayesian active model selection. Poster at *MathPsych 2019*, Montreal, Canada.
41. Langlois, T., Jacoby, N., Suchow, J. W., & Griffiths, T. L. (2019). Orthogonal multi-view three-dimensional object representations in memory. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
42. Langlois, T., Jacoby, N., Suchow, J. W., & Griffiths, T. L. (2019). Biases in visual memory represent precision not prototypes. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
43. Lall, V. H., Suchow, J. W., Malkomes, G., & Griffiths, T. L. (2019). Automated cognitive modeling with Bayesian active model selection. Poster at ICCM 2019, Montreal, Canada.
44. Suchow, J. W. & Griffiths, T. L. (2019). Learning to calibrate age estimates. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
45. Suchow, J. W., Morgan, T. J. H., Lall, V. H., Hamrick, J. B., Meylan, S. C., …, & Griffiths, T. L. (2019). Fully automated behavioral experiments on cultural transmission through crowdsourcing. Talk at *SciPy 2019*, Austin, TX.
46. Suchow, J. W., Morgan, T. J. H., Lall, V. H., Hamrick, J. B., Meylan, S. C., & Griffiths, T. L. (2019). Fully automated behavioral experiments on cultural transmission through crowdsourcing. Poster at *Collective Intelligence*, Pittsburgh, PA.
47. Suchow, J. W. (2018). Invited talk. Stevens Institute of Technology, Department of Computer Science, Hoboken, NJ.

48. Peterson, J. C., Aghi, K., Suchow, J. W., Ku, A., & Griffiths, T. L. (2018). Capturing human category representations by sampling in deep feature spaces. ICLR workshop track, Vancouver, Canada.
49. Suchow, J. W. (2018). New Members Symposium. *13th International Conference of the Learning Sciences*, London, England.
50. Morgan, T. J. H., Suchow, J. W., & Griffiths, T. L. (2018). Experimental gene-culture coevolution of human social learning in a changing environment. *The Cultural Evolution Conference*, Tempe, AZ.
51. Suchow, J. W., Lall, V. H., Callaway, F., Pacer, M., & Griffiths, T. L. (2018). Towards closed-loop crowdsourcing and human computation. PROBPROG, Cambridge, MA.
52. Suchow, J. W., Peterson, J. C., & Griffiths, T. L. (2018). A learned generative model of faces for experiments on human identity. Talk at the *Vision Sciences Society conference*, St. Pete Beach, FL.
53. Peterson, J. C., Aghi, K., Suchow, J. W., Ku, A., & Griffiths, T. L. (2018). Sampling from object and scene representations using deep feature spaces. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
54. Paxton, A., Morgan, T. J. H., Suchow, J. W., & Griffiths, T. L. (2018). Low-level coordination in minimally interactive (online) contexts. Talk at the *UConn Workshop on Cognition and Dynamics*, Storrs, CT.
55. Paxton, A., Suchow, J. W., Morgan, T. J. H., & Griffiths, T. L. (2018). The virtuous cycle of theory-building. Talk at SPSP, Atlanta, GA.
56. Suchow, J. W. & Griffiths, T. L. (2018). Culture on a chip computing. DARPA NGS2 PI meeting, Arlington, VA.
57. Suchow, J. W. (2017). Invited talk. Stevens Institute of Technology, Information Systems group, Hoboken, NJ.
58. Suchow, J. W. (2017). Algorithmic experimentation with Dallinger. Tutorial at the *Estes Fund Data on the Mind Workshop*, Berkeley, CA.
59. Peterson, J. C., Abbott, J., Battleday, R., Suchow, J. W., & Griffiths, T. L. (2017). Using large natural image datasets to study cognition. Poster at the *Psychonomic Society*, Vancouver, Canada.
60. Paxton, A., Suchow, J. W., Morgan, T. J. H., & Griffiths, T. L. (2017). Exploring social behavior with Dallinger. Poster at the *Psychonomic Society*, Vancouver, Canada.
61. McDowell, M., Suchow, J. W., & Haberman, J. (2017). A preference for flipped depictions of self. Poster at the *Vision Sciences Society conference*, St. Pete Beach, FL.
62. Suchow, J. W. (2016). Invited talk on culture-on-a-chip computing. Stanford University, Stanford, CA.
63. Suchow, J. W. (2016). Invited talk on culture-on-a-chip computing. Cornell Tech, New York City, NY.
64. Suchow, J. W. (2016). Experiment design, algorithm design, and automation in the behavioral and social sciences. CS Colloquium, Wellesley College, Wellesley, MA.

65. Suchow, J. W. (2016). Invited talk on culture-on-a-chip computing. Mount Holyoke College, South Hadley, MA.

66. Suchow, J. W., Fougnie, D., & Alvarez, G. A. (2016). Looking inwards and back: realtime monitoring of visual working memory. Talk at OPAM, Boston, MA.

67. Suchow, J. W., Morgan, T. J. H., Hamrick, J., Pacer, M., Meylan, S. C., & Griffiths, T. L. (2016). Wallace: automating cultural evolution experiments through crowdsourcing. Tutorial at *CogSci 2016*, Philadelphia, PA.

68. Suchow, J. W. & Griffiths, T. L. (2016). Deciding to remember: memory maintenance as a Markov Decision Process. Talk at *CogSci 2016*, Philadelphia, PA.

69. Suchow, J. W. & Griffiths, T. L. (2016). Culture-on-a-chip computing. Talk and poster at DARPA NGS2 kickoff meeting, Arlington, VA.

70. Suchow, J. W., Pacer, M. D., & Griffiths, T. L. (2016). Design from zeroth principles. Poster at *CogSci 2016*, Philadelphia, PA.

71. Pacer, M. D. & Suchow, J. W. (2016). Proselint: the linting of science prose and the science of linting prose. Talk at *SciPy 2016*, Austin, TX.

72. Suchow, J. W. (2016). Panel: "Extracting knowledge from data." *Data Science Summit*, Moore-Sloan Data Science Environment.

73. Suchow, J. W. (2016). Proposer's Day for DARPA NGS2, Arlington, VA.

74. Suchow, J. W. (2015). Invited talk on culture-on-a-chip computing. Cornell University, Ithaca, NY.

75. Suchow, J. W. (2015). Invited talk on culture-on-a-chip computing. Tufts University, Medford, MA.

76. Suchow, J. W. (2015). Perception and Action seminar. UC Berkeley.

77. Suchow, J. W., Morgan, T. J. H., Hamrick, J., Pacer, M., Meylan, S. C., & Griffiths, T. L. (2015). Wallace: A platform for simulating cultural evolution in structured populations online. Talk at the *Crowdsourcing and Online Behavioral Experiments* workshop, *ACM Conference on Economics and Computation*, Portland, OR.

78. Suchow, J. W. & Alvarez, G. A. (2014). The more you try to remember, the faster you forget: load-dependent forgetting and overreaching. Talk at the *Vision Sciences Society conference*, St. Pete Beach, FL.

79. Suchow, J. W. (2013). Maintaining memories in a partially observable mind. *Visual Attention Seminar*, Brigham & Women's Hospital, Cambridge, MA.

80. Suchow, J. W., Allen, B., Nowak, M. A., & Alvarez, G. A. (2013). Evolutionary dynamics of visual memory. Poster at the *Vision Sciences Society conference*, Naples, FL.

81. Herman, L., Suchow, J. W., & Alvarez, G. A. (2013). Frequency-based synesthetic associations between letters and colors. Poster at the *Vision Sciences Society conference*, Naples, FL.

82. Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2013). Gradual decay and death by natural causes in visual working memory. Poster at the *Vision Sciences Society conference*, Naples, FL.

83. Alvarez, G. A., Brady, T. F., Fougnie, D., & Suchow, J. W. (2013). Beyond slots vs. resources. Talk at the *Vision Sciences Society conference*, Naples, FL.

84. Herman, L., Suchow, J. W., & Alvarez, G. A. (2013). Frequency-based synesthetic associations between letters and colors. Poster at the *17th International Conference on Cognitive and Neural Systems*, Boston, MA.

85. Suchow, J. W. (2012). Metamemory and evolutionary dynamics in cognitive processes. *Cognition, Brain, and Behavior Seminar*, Harvard.

86. Brady, T. F., Suchow, J. W., Fougnie, D., & Alvarez, G. A. (2012). MemToolbox: A Matlab toolbox for analyzing visual working memory experiments. Poster at the *Portland Working Memory Conference*.

87. Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2012). Gradual decay and death by natural causes in visual working memory. Poster at the *Portland Working Memory Conference*.

88. Suchow, J. W., Fougnie, D., & Alvarez, G. A. (2012). Visual working metamemory. Poster at the *Vision Sciences Society conference*, Naples, FL.

89. Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2012). The volatility of working memory. Talk at the *Vision Sciences Society conference*, Naples, FL.

90. Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2011). Variable precision among working memory representations. Talk at OPAM, Seattle, WA.

91. Suchow, J. W. & Alvarez, G. A. (2011). Background motion silences awareness of foreground change. Poster at SIGGRAPH 2011, Vancouver, Canada.

92. Suchow, J. W. & Alvarez, G. A. (2011). Silencing awareness of change by background motion. Poster at the *15th Annual Meeting of the Association for the Scientific Study of Consciousness*, Kyoto, Japan.

93. Haberman, J., Suchow, J. W., & Alvarez, G. A. (2011). The visual system adapts to mean orientation. Poster at the *Vision Sciences Society conference*, Naples, FL.

94. Suchow, J. W. & Alvarez, G. A. (2011). Which kinds of motion silence awareness of visual change? Poster at the *Vision Sciences Society conference*, Naples, FL.

95. Suchow, J. W. & Alvarez, G. A. (2010). Silent updating: cross-dimensional change suppression. Talk at the *Vision Sciences Society conference*, Naples, FL.

96. Suchow, J. W. & Pelli, D. G. (2008). Letter learning: feature detection and combination. Poster at the *Vision Sciences Society conference*, Naples, FL.

97. Suchow, J. W. (2006). Feature integration during letter learning. Talk at *The Leadership Alliance National Symposium*, Chantilly, VA.

98. Suchow, J. W. (2006). Feature integration during letter learning. Talk at the *NYU Summer Undergraduate Research Symposium*, New York, NY.

99. Suchow, J. W. & Pelli, D. G. (2005). Learning to identify letters: generalization in high-level perceptual learning. Poster at the *Vision Sciences Society conference*, Sarasota, FL.

TEACHING

Course No.	Course Title	Term
BIA 568	Management of A.I. Technologies	Fall 2025
MGT 451	Computational Models of Thought and Behavior	Fall 2025
PRV 101	First-Year Experience	Fall 2025
BIA 568	Management of A.I. Technologies	Spring 2025
BIA 568	Management of A.I. Technologies	Fall 2024
MGT 451	Computational Models of Thought and Behavior	Fall 2024
PRV 101	First-Year Experience	Fall 2024
BIA 568	Management of A.I. Technologies	Spring 2024
BIA 668a	Management of A.I. Technologies	Fall 2023
MGT 451	Computational Models of Thought and Behavior	Fall 2023
BIA 668b	Management of A.I. Technologies	Fall 2023
BIA 660	Web Mining	Fall 2022
BIA 668	Management of A.I. Technologies	Fall 2022
BIA 668	Management of A.I. Technologies	Spring 2022
BIA 668	Management of A.I. Technologies	Fall 2021
MGT 451	Computational Models of Thought and Behavior	Fall 2021
BIA 668a	Management of A.I. Technologies	Spring 2021
BIA 668b	Management of A.I. Technologies	Spring 2021
MGT 451	Computational Models of Thought and Behavior	Fall 2020
BIA 660	Web Mining	Spring 2020
BIA 660	Web Mining	Fall 2019
BIA 660	Web Mining	Spring 2019

Pre-Stevens teaching:

Cognition. Instructor. Wellesley College, 2018.

Computational Models of Cognition (2 sections). Lecturer. University of California, Berkeley, 2015.

Contemporary Issues in Psychology: Intensive Cross-Level Analysis. Instructor. Harvard University, 2012, 2013.

Psychological Science (2 sections). Teaching Fellow for Dan Gilbert. Harvard University, 2011, 2012.

MATLAB Programming for Behavioral Testing. Teaching Fellow for George Alvarez. Harvard University, 2012.

TEACHING TOOLS

QALMRI+. An extended worksheet and method for learning to read a journal article.

Visual Quantitative Literacy Test (with Justin Jungé). Still used annually in coursework at Princeton.

Zipf It. An interactive tool for learning about Zipf's law.

STUDENT ADVISING

Ph.D. students sole-advised to completion:

Vahid Ashrafimoghari (2020–2025). *Decoding Decisions: An A.I.-Driven Exploration of Cognitive Errors and Decision-Making Processes.* Placement: Postdoctoral researcher, Geisinger.

Yangyang Yu (2020–2025). *Aligning Multi-modal Object Representations to Human Cognition.* Placement: Researcher, Accenture A.I. Research Lab.

Necdet Gürkan (2019–2024). *A Computational Basis for Consensus-Aware Technologies.* Placement: Assistant Professor, Information Systems and Technology, University of Missouri–St. Louis.

Ph.D. student currently co-advised: Haohang Li (with Zining Zhu, 2023–present). *On mechanistic interpretability of machine-learning models.*

4 master's students and 33 undergraduates advised on research projects.

AWARDS & FELLOWSHIPS

2026 *2nd place*, Predicting Replicability Challenge, Round 2, Center for Open Science.

2022–2027 *Presidential Fellow*, Stevens Institute of Technology.

2022–2025 *Dean's Fellow*, School of Business, Stevens Institute of Technology.

2023 *Faculty keynote speaker*, Graduate Convocation Ceremony, Stevens Institute of Technology.

2023 *Academic Advising Award*, Stevens Institute of Technology.

2022 *Best paper award* ("Application of theory"), Northeast Decision Sciences Institute (NEDSI).

2015–2016 *Fellow*, Center for Technology, Society, & Policy, University of California, Berkeley.

2014–2016 *National Science Foundation Postdoctoral Research Fellowship*, Directorate for Social, Behavioral, & Economic Sciences.

2013 *Derek Bok Center Teaching Award*, Harvard University.

2013 *George W. Goethals Teaching Award*, Harvard University.

2012 *George W. Goethals Teaching Award*, Harvard University.

2011 *First prize*, Best Visual Illusion of the Year Contest, Neural Correlate Society, for "Silencing."

2011 *Semifinalist*, ACM Student Research Competition at SIGGRAPH.

2011 *Mind, Brain & Behavior Graduate Student Award*, Harvard University.

2009–2012 *Sosland Fellow*, Harvard University.

2005–2009 *Presidential Scholar*, Brandeis University.

2005 Semifinalist, Intel Science Talent Search.

TRAINING

2014 Brains, Minds, and Machines summer school. Marine Biological Laboratory, Woods Hole, MA.

2012 Research assistant in Vadodara, India. Randomized controlled trial of mental abacus training in a local primary school, studying effects on mathematical ability and working memory.

2011 Probabilistic Models of Cognition summer school. UCLA Institute for Pure & Applied Mathematics (IPAM).

2006 NSF Research Experience for Undergraduates (REU), New York University.

2006 The Leadership Alliance Early Identification Summer Research Program.

2003–2005 Columbia University Science Honors Program.

OUTREACH & MEDIA COVERAGE

2026 Quoted in ConsumerAffairs.

2022 Peterson et al. covered by Futurism, Tech Xplore, AiThority, and others.

2021 Wang et al. covered by Vox.com.

2021 Jones et al. / PSA covered by Vox.com.

2016 Proselint reached #1 on Hacker News front page; covered by Boing Boing.

2016 "Rethinking experiment design as algorithm design." Follow the Crowd blog.

2015 Suchow (2011) translated to audio in *StarShipSofa* episode 397.

2012 Suchow & Pelli (2012) covered by Medical Xpress.

2011 Suchow & Alvarez (2011) covered by *Scientific American*, *New Scientist*, *The Washington Post*, Slashdot, Gizmodo, *Wired*, MSNBC, CBS, and others. Demo page: 250,000 visitors; YouTube demos: 2.2 million plays.

2009 Interview with Nerve.com.

2005 "Seeing things: Visual perception research at NYU." *Imagine Magazine*.

PROFESSIONAL SERVICE

Ad hoc reviewer for journals, conferences, and grant agencies (see Reviewing section for full venue list). Ongoing.

Associate Editor, ICIS 2022, 2025, 2026.

Program Committee member, CogSci 2020–*present*.

Minitrack Co-chair, Cognitive and Neuroscience Research in IS minitrack at HICSS, 2023–2025.

Co-organizer, professional development workshop on digital experimental platforms, Academy of Management CTO division, 2023.

Organizer, Scaling Cognitive Science Workshop I, Princeton University, 2020.

Organizer, Scaling Cognitive Science Workshop II, *CogSci 2020*.

Advisory Board Member, Pushkin experiment platform, 2022–*present*.

Program Committee member, WITS 2022.

Program Committee member, 11th ACM SIGCHI Symposium on Engineering Interactive Computing Systems, 2019.

Session Chair, Generative A.I. track at ICIS 2025.

Session Chair, SIG Cognitive Research sessions at AMCIS 2023.

Judge, student poster competition at SJDM 2024.

Scientific advisor, Pubget, Inc., 2011–2013.

Editorial Board member, Matters, 2015–2022.

Editorial Board member, The New School Psychology Bulletin, 2011–2013.

Committee member, Association for the Scientific Study of Consciousness e-print committee, 2011–2012.

Judge, Neural Correlate Society's 2012 Best Visual Illusion of the Year Contest.

Advisor, consulting and advisory services for a scientific due diligence startup, 2025–2026.

Consultant, consulting and advisory services for an ad-tech startup, 2018–2023.

Advisor, consulting and advisory services for a talent-management startup, 2011–2014.

UNIVERSITY & DEPARTMENTAL SERVICE

Faculty participant, Academic and Student Affairs Committee of the Board of Trustees, 2025–2027.

Member, SIAI Steering Committee, 2021–*present*.

Member, Academic Appeals Committee, 2022–2024.

Member, Committee for Stevens Core, 2022–2024.

Chair, Subcommittee of the Committee for Stevens Core on Future of Technology on A.I., 2023.

Member, Research Advisory Council of the Vice Provost for Research and Innovation, 2023–*present*.

Member, SIAI Director Search Committee, 2022.

Organizer, Harvest Day, 2021–*present*.

Member, School of Business Strategic Planning Committee, 2022–2023.

Member, Business Administration Ph.D. Program Committee, 2020–2025.

Designer, new undergraduate program in Business & A.I., 2026.

Member, BI&A Program Committee, 2019–2024.

Member, School of Business Research Committee, 2020–2023.

Member, Ph.D. Handbook Subcommittee, 2022–2023.

Member, School of Business Graduate Marketing Committee, 2020–2023.

Member, Management Program Academic Committee, 2020–2022.

Course lead, Noodle course conversion for BIA 668, 2022–2023.

Academic advisor, ≈40 undergraduate and Master's students per year, 2020–*present*.

Organizer, A.I. & Cognitive Science Webinar Series, 2021.

Member, Department of Computer Science Search Committee, 2021.

Member, Marketing Search Committee, 2021.

Member, 150th Anniversary Academic Symposium Committee, 2020.

Judge, Three-Minute Thesis Competition, Department of Biomedical Engineering, 2025–2026.

REVIEWING

Ad hoc reviewer for (alphabetical):

Academy of Management Annual Meeting (MOC, TIM, and symposia)

AMCIS
Army Research Office
Attention, Perception, & Psychophysics
Cognition
Cognitive Psychology
Cognitive Research: Principles and Implications
Cognitive Science
CogSci
Computers in Human Behavior
CVPR
ECIS
EICS
Emotion
EPIC
Eurohaptics
Frontiers in Human Neuroscience
Frontiers in Psychology
International Conference on Information Systems
ACM Interaction Design and Children
International Journal of Human Factors and Ergonomics
Israel Science Foundation
Journal of Cognitive Psychology
Journal of Comparative Psychology
Journal of Experimental Psychology: Human Perception and Performance
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Neurophysiology
Journal of the Optical Society of America A
Journal of Vision
KDD
Matters
MIS Quarterly
Nature Communications
Nature Human Behaviour
NeurIPS (datasets and benchmarks track)
NeurIPS (main track)
New School Psychology Bulletin
NIME
NSF
PACIS
Perception
Perspectives on Psychological Science
PLOS Computational Biology
PLOS ONE (also guest editor)

Psychological Research
Psychological Review
Psychological Science
Psychonomic Bulletin & Review
Science Advances
SciPy
Visual Cognition
WITS
IEEE World Haptics Conference

PROFESSIONAL REFERENCES

Denis Pelli
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New York University
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George Alvarez
Professor
Harvard University
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Justin Jungé
Senior Lecturer
Princeton University
jjunge@princeton.edu

Thomas Griffiths
Professor
Princeton University
tomg@princeton.edu

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