

CURRICULUM VITAE**THOMAS L. GRIFFITHS****PERSONAL DETAILS**

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 Department of Psychology
 Princeton University
 Princeton NJ 08540
 Nationality: Citizen of Australia, the United Kingdom, & the United States of America

PROFESSIONAL POSITIONS

2018 - present Henry R. Luce Professor of Information Technology, Consciousness, and Culture,
 Departments of Psychology and Computer Science, Princeton University
 2024 - present Director, Princeton Laboratory for Artificial Intelligence, Princeton University
 2023 - 2024 Director, Center for Statistics and Machine Learning, Princeton University
 2017 - 2018 Class of 1951 Professor, Miller Institute for Basic Research in Science
 University of California, Berkeley
 2015 - 2017 Professor, Department of Psychology and Cognitive Science Program
 University of California, Berkeley
 2010 - 2018 Director, Institute of Cognitive and Brain Sciences
 University of California, Berkeley
 2010 - 2015 Associate Professor, Department of Psychology and Cognitive Science Program
 University of California, Berkeley
 2006 - 2010 Assistant Professor, Department of Psychology and Cognitive Science Program
 University of California, Berkeley
 2005 - 2006 Assistant Professor, Department of Cognitive and Linguistic Sciences
 Brown University

EDUCATION

Ph.D. in Psychology, Stanford University, 2005

Dissertation title: *Causes, coincidences, and theories*

Exchange scholar, Brain and Cognitive Sciences Department and Computer Science and Artificial Intelligence
 Laboratory, Massachusetts Institute of Technology, 2002-2004

M.S. in Statistics, Stanford University, 2002

M.A. in Psychology, Stanford University, 2002

B.A. (Honours) in Psychology, University of Western Australia, 1998

AWARDS AND HONORS

2019 Troland Research Award, National Academy of Sciences.

2017 Fellow of the John Simon Guggenheim Memorial Foundation.

Miller Professorship, University of California, Berkeley.

2013 Early Career Impact Award for the Cognitive Science Society, Federation of Associations in Behavioral
 and Brain Sciences (FABBS) Foundation.

2012 Outstanding Young Investigator Award, Psychonomic Society.

Distinguished Scientific Award for Early Career Contribution to Psychology, American Psychological
 Association.

Fellow, Association for Psychological Science.

- 2011 Janet Taylor Spence Award for Transformative Early Career Contributions, Association for Psychological Science.
- 2010 Sloan Foundation Research Fellowship (Computer Science).
Young Investigator Program grant, Air Force Office of Scientific Research.
Young Investigator Award, Society of Experimental Psychologists.
- 2009 Faculty Early Career Development (CAREER) award, National Science Foundation.
William K. Estes Early Career Award, Society for Mathematical Psychology.
- 2006 “AI Ten to Watch” award from *IEEE Intelligent Systems* magazine, awarded to the ten most promising young scientists performing artificial intelligence research as part of the 50th anniversary of the first artificial intelligence conference.
- 2002 Stanford University Centennial Teaching Assistant Award.
Department of Psychology Distinguished Teaching Award.
- 1999 Stanford Graduate Fellowship
- 1998 Hackett Studentship
J.A. Wood Prize (best student in the Faculties of Arts, Law, and Economics at the University of Western Australia).

Best paper awards

- 2022 Outstanding Paper Prize from the Neural Information Processing Systems Conference for “Using natural language and program abstractions to instill human inductive biases in machines” with Sreejan Kumar, Carlos Correa, Ishita Dasgupta, Raja Marjeh, Michael Hu, Robert Hawkins, Nathaniel Daw, Jonathan Cohen, and Karthik Narasimhan.
- 2020 Computational Modeling Prize in Language from the Annual Conference of the Cognitive Science Society for “Generalizing meanings from partners to populations: Hierarchical inference supports convention formation on networks” with Robert Hawkins, Noah Goodman, and Adele Goldberg.
- 2017 Blue Sky Paper Award from International Symposium on Robotics Research (ISRR) for “Pragmatic-pedagogic value alignment” with J. F. Fisac, M. A. Gates, J. B. Hamrick, C. Liu, D. Hadfield-Menell, M. Palaniappan, D. Malik, S. S. Sastry, and A. Dragan.
- 2017 Best Paper Prize from the Cognitively Informed Artificial Intelligence Workshop at the Neural Information Processing Systems conference for “Learning to select computations” with Falk Lieder, Fred Callaway, Sayan Gul and Paul Krueger.
- 2016 Computational Modeling Prize in Perception and Action from the Annual Conference of the Cognitive Science Society for “Adapting deep network features to capture psychological representations” with Josh Peterson and Josh Abbott.
- 2012 Best Poster award at the Education and Data Mining conference for “Inferring learners knowledge from observed actions,” with Anna Rafferty and Michelle Lamar.
- 2010 Best Article Published in *Psychonomic Bulletin and Review* in 2010, for “Exemplar models as a mechanism for performing Bayesian inference,” with Lei Shi, Naomi Feldman, and Adam Sanborn.
Best Application Paper award at the International Conference on Machine Learning for “Modeling transfer learning in human categorization with the hierarchical Dirichlet process,” with Kevin Canini and Mikhail Shashkov.
- 2007 Adam Sanborn received the Outstanding Student Paper prize for “Markov chain Monte Carlo with people” at the Neural Information Processing Systems conference.

- 2006 Elizabeth Bonawitz received the Marr prize for best student paper for “Modeling cross-domain causal learning in preschoolers as Bayesian inference” at the Cognitive Science Society conference.
- 2004 Honorable mention for Marr prize for best student paper for “Using physical theories to infer hidden causes” at the Cognitive Science Society conference.
- 2003 Best student paper prize, natural systems (cognitive science) at the Neural Information Processing Systems conference for “From algorithmic complexity to subjective randomness,” with Joshua Tenenbaum.
- Best student paper prize, synthetic systems (machine learning) at the Neural Information Processing Systems conference for “Hierarchical topic models and the nested Chinese restaurant process,” with David Blei, Michael Jordan, and Joshua Tenenbaum.

Distinguished invited lectures

- 2022 The Edinburgh Lectures in Language Evolution, University of Edinburgh.
- 2021 Crowder Lecture, Yale University.
- 2019 J. James Woods Lecture Series, Butler University.
- 2018 Roger N. Shepard Visiting Scholar, University of Arizona.
- 2016 Mind Lecture, University of Kansas.
- 2015 Teuber Lecture, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology.
- 2012 Distinguished Speakers in Cognitive Science Lecture Series, Michigan State University.
- 2009 Distinguished Speaker Series, Center for Machine Learning and Intelligent Systems, University of California, Irvine.

GRANTS AND FUNDING

External

- 2023-2026 “Instantiating human inductive biases in machines via metalearning,” Office of Naval Research (\$750,000).
- 2023-2026 “Collaborative Proposal: CompCog: RI: Medium: Understanding human planning through AI-assisted analysis of a massive chess dataset,” (with 2 other faculty members) National Science Foundation (\$1,500,000).
- 2022-2025 “Understanding diverse intelligences via diverse constraints,” (with 3 other faculty members) Templeton World Charity Foundation (\$1,500,000).
- 2022-2027 “HUDDLE: Human Autonomy Teaming in Uncertain and Dynamic Environments,” (with 5 other faculty members, Laurel Riek as PI) Office of Naval Research (\$931,130).
- 2020-2021 “RAPID: The effect of a crisis on intertemporal choice,” (with Jonathan Cohen) National Science Foundation (\$125,142).
- 2019-2022 “Toward a Scientific Understanding of the Human Capacity for Autonomy” John Templeton Foundation (with 4 other faculty members, Jonathan Cohen as PI) (\$4,995,106).
- 2018-2022 “Structured Deep Learning for Modeling and Controlling High-Dimensional Dynamical Systems,” Office of Naval Research (with 2 other faculty members, Ani Majumdar as PI) (\$1,999,830).
- 2018-2021 “CompCog: Helping People Make More Future-minded Decision Using Optimal Gamification,” National Science Foundation, (\$499,423).

- 2018-2021 “Resource Rationality as a Foundation for Augmented Reality Systems,” Facebook Reality Labs (\$802,787).
- 2017-2021 “An Integrated Nonparametric Bayesian and Deep Neural Network Framework for Biologically-Inspired Lifelong Learning” DARPA (with 5 other faculty members, Katherine Heller as PI) (\$1,200,000).
- 2017-2020 “ Discovering optimal strategies for bounded agents,” Air Force Office of Scientific Research, FA9550-18-1-0077 (\$694,343).
- 2017-2020 “RI SMALL: CompCog: Leveraging Deep Neural Networks for Understanding Human Cognition,” National Science Foundation (\$448,284).
- 2016-2018 “Understanding and extending human metacognitive intelligence,” Templeton World Charity Foundation (\$199,707).
- 2016-2021 “Center for human-compatible AI,” Open Philanthropy Foundation (with 6 other faculty members, Stuart Russell as PI) (\$5,500,000).
- 2016-2021 “CPS: Frontier: Collaborative Research: VeHICaL: Verified Human Interfaces, Control, and Learning for Semi-Autonomous Systems,” National Science Foundation (with 7 other faculty members, Sanjit Seshia as PI) (\$3,590,000).
- 2016-2020 “Culture-on-a-chip Computing: Crowdsourced Simulations of Culture, Group Formation, and Collective Identity,” DARPA (with 3 other faculty members, Thomas Griffiths as PI) (\$4,786,471).
- 2016 “Evaluating semantic representations from neural networks against human behavior,” Google Faculty Research Award (\$71,340).
- 2015-2016 “Value alignment and moral metareasoning,” Future of Life Institute (\$110,883).
- 2015-2017 “Testing evolutionary hypotheses through large-scale behavioral simulations,” National Science Foundation, BCS-1456709 (\$474,697).
- 2014-2017 “Diagnosing misconceptions about algebra using Bayesian inverse reinforcement learning,” National Science Foundation, DRL-1420732 (\$443,248).
- 2013-2018 “Data on the mind: Center for data-intensive psychological science,” National Science Foundation, SMA-1228541 (with Alison Gopnik and Dacher Keltner) (\$531,482).
- 2013-2017 “Rational randomness: Search, sampling and exploration in children’s causal learning,” National Science Foundation, BCS-1331620 (with Alison Gopnik) (\$446,815).
- 2013-2017 “Embedded humans: Provably correct decision making for networks of human and unmanned systems,” Office of Naval Research, N00014-13-1-0341 (with 11 other faculty members, Shankar Sastry as PI) (\$7,500,000).
- 2013-2017 “Inductive inference by humans and machines,” Air Force Office of Scientific Research, FA9550-13-1-0170 (\$694,343).
- 2012-2017 “CRCNS: Cortical representation of phonetic, syntactic and semantic information during speech perception and language comprehension”, National Science Foundation, IIS-1208203 (with Jack Gallant and Frederic Theunissen) (\$423,718).
- 2011-2012 “Perceptual grounding of language using probabilistic models”, DARPA, BOLT-E (with five other faculty, Trevor Darrell as PI) (\$1,093,768).
- 2010-2013 “Probabilistic models for reconstructing ancient languages”, National Science Foundation, IIS-1018733 (with Dan Klein) (\$460,143).

- 2010-2013 “Causal learning as sampling”, National Science Foundation, BCS-1023875 (with Alison Gopnik) (\$323,030).
- 2010-2012 Research Fellowship in Computer Science, Sloan Foundation (\$50,000).
- 2010-2013 “Fast, flexible, rational inductive inference”, Air Force Office of Scientific Research, FA-9550-10-1-0232 (\$358,028).
- 2009-2013 “CAREER: Connecting human and machine learning through probabilistic models of cognition”, National Science Foundation, IIS-0845410 (\$546,841).
- 2008-2009 “Workshop: Probabilistic models of cognitive development”, National Science Foundation, DLR-0838595 (\$56,982).
- 2008 “Nonparametric Bayesian models for relational data” (with Michael Jordan, University of California, Berkeley), Lawrence Livermore National Laboratory (\$70,000).
- 2006-2008 “Topic modeling and identification” DARPA/SRI Cognitive Agent that Learns and Organizes (CALO) project (\$150,000).
- 2006-2009 “Collaborative research: Knowledge transmission through iterated learning” (with Michael Kalish, University of Louisiana at Lafayette), National Science Foundation, BCS-0704034 (\$314,234 total, with \$114,234 to Berkeley).
- 2006-2009 “Collaborative research: Bayesian methods for learning and analyzing natural language” (with Mark Johnson, Brown University), National Science Foundation, SES-0631518 (\$320,000 total, with \$160,000 to Berkeley).
- 2007-2009 “Theory-based Bayesian models of inductive inference”, Air Force Office of Scientific Research, FA9550-07-1-0351 (\$325,414).

Internal

- 2021 “Aligning human and machine representations of language,” (with Yohei Oseki), Tokyo-Princeton University Collaboration grant (\$9,998).
- 2019-2020 “Society-Scale Behavioral Simulations through Crowdsourcing” (with 4 other faculty members), Center for Statistics and Machine Learning DataX grant (\$123,928).
- 2006-2007 “Computational and statistical foundations of human inductive inference” (with Stuart Russell and Michael Jordan), Chancellor’s Faculty Partnership Fund (\$78,985).
- 2006-2009 Berkeley Committee on Research Junior Faculty Research Grants (\$22,000 total).

PUBLICATION LIST (72,000+ citations, *h* index of 116 via Google Scholar)

Books

1. Christian, B., & **Griffiths, T.** (2016). *Algorithms to live by*. New York: Holt. (Named as one of the Amazon.com “Best Science Books of 2016,” *Forbes* “Must-read brain books of 2016,” and *MIT Technology Review* “Best books of 2016.”)
2. **Griffiths, T.L.**, Chater, N., & Tenenbaum, J.B. (2024). *Bayesian models of cognition: Reverse engineering the mind*. MIT Press.

Journal articles

3. Lewandowsky, S., Kalish, M., & **Griffiths, T.L.** (2000). Competing strategies in categorization: Expediency and resistance to knowledge restructuring. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *26*, 1666-1684.

4. Tenenbaum, J.B., & **Griffiths, T.L.** (2001). Generalization, similarity, and Bayesian inference. *Behavioral and Brain Sciences*, *24*, 629-641. (target article)
5. **Griffiths, T.L.**, & Kalish, M.L. (2002). A multidimensional scaling approach to mental multiplication. *Memory and Cognition*, *30*, 97-106.
6. **Griffiths, T.L.**, & Steyvers, M. (2004). Finding scientific topics. *Proceedings of the National Academy of Sciences*, *101*, 5228-5235.
7. **Griffiths, T.L.**, & Tenenbaum, J. B. (2005). Structure and strength in causal induction. *Cognitive Psychology*, *51*, 354-384.
8. Navarro, D.J., **Griffiths, T.L.**, Steyvers, M., & Lee, M.I. (2006). Modeling individual differences with Dirichlet processes. *Journal of Mathematical Psychology*, *50*, 101-122.
9. Steyvers, M., **Griffiths, T.L.**, & Dennis, S. (2006). Probabilistic inference in human semantic memory. *Trends in Cognitive Sciences*, *10*, 327-334.
10. Tenenbaum, J.B., **Griffiths, T.L.**, & Kemp, C. (2006). Theory-based Bayesian models of inductive learning and reasoning. *Trends in Cognitive Sciences*, *10*, 309-318.
11. **Griffiths, T.L.**, & Tenenbaum, J. B. (2006). Optimal predictions in everyday cognition. *Psychological Science*, *17*, 767-773.
12. **Griffiths, T.L.**, & Tenenbaum, J. B. (2007). From mere coincidences to meaningful discoveries. *Cognition*, *103*, 180-226.
13. Kirby, S., Dowman, M., & **Griffiths, T.L.** (2007). Innateness and culture in the evolution of language. *Proceedings of the National Academy of Sciences*, *104*, 5241-5245.
14. **Griffiths, T.L.**, & Kalish, M. L. (2007). Language evolution by iterated learning with Bayesian agents. *Cognitive Science*, *31*, 441-480.
15. **Griffiths, T.L.**, Steyvers, M., & Tenenbaum, J. B. (2007). Topics in semantic representation. *Psychological Review*, *114*, 211-244.
16. Iwata, T., Saito, K., Ueda, N., Stromsten, S., **Griffiths, T.L.**, and Tenenbaum, J. B. (2007). Parametric embedding for class visualization. *Neural Computation*, *19*, 2536-2556.
17. Kalish, M.L., **Griffiths, T.L.**, & Lewandowsky, S. (2007). Iterated learning: Intergenerational knowledge transmission reveals inductive biases. *Psychonomic Bulletin and Review*, *14*, 288-294.
18. Schulz, L., Bonawitz, E. B., & **Griffiths, T.L.** (2007). Can being scared make your tummy ache? Naive theories, ambiguous evidence, and preschoolers' causal inferences. *Developmental Psychology*, *43*, 1124-1139.
19. **Griffiths, T.L.**, Steyvers, M., & Firl, A. (2007). Google and the mind: Predicting fluency with PageRank. *Psychological Science*, *18*, 1069-1076.
20. **Griffiths, T.L.**, Christian, B.R., & Kalish, M.L. (2008). Using category structures to test iterated learning as a method for revealing inductive biases. *Cognitive Science*, *32*, 68-107.
21. Goodman, N.D., Tenenbaum, J.B., Feldman, J., & **Griffiths, T.L.** (2008). A rational analysis of rule-based concept learning. *Cognitive Science*, *32*, 108-154.
22. Navarro, D.J. & **Griffiths, T.L.** (2008). Latent features in similarity judgment: A nonparametric Bayesian approach. *Neural Computation*, *20*, 2597-2628.
23. Dowman, M., Savova, V., **Griffiths, T.L.**, Körding, K., Tenenbaum, J. B., & Purver, M. (2008). A probabilistic model of meetings that combines words and discourse features. *IEEE Transactions on Audio, Speech, and Language Processing*, *16*, 1238-1248.
24. **Griffiths, T.L.**, Kalish, M., & Lewandowsky, S. (2008). Theoretical and experimental evidence for the impact of inductive biases on cultural evolution. *Philosophical Transactions of the Royal Society*, *363*, 3503-3514.

25. Reali, F. & **Griffiths, T.L.** (2009). The evolution of linguistic frequency distributions: Relating regularization to inductive biases through iterated learning. *Cognition*, *111*, 317-328.
26. Goldwater, S., **Griffiths, T.L.** & Johnson, M. (2009). A Bayesian framework for word segmentation: Exploring the effects of context. *Cognition*, *112*, 21-54.
27. **Griffiths, T.L.**, & Tenenbaum, J.B. (2009). Theory-based causal induction. *Psychological Review*, *116*, 661-716.
28. Feldman, N.H., **Griffiths, T.L.**, & Morgan, J.L. (2009). The influence of categories on perception: Explaining the perceptual magnet effect as optimal statistical inference. *Psychological Review*, *116*, 752-782.
29. Lewandowsky, S., **Griffiths, T.L.**, & Kalish, M.L. (2009). The wisdom of individuals: Exploring peoples knowledge about everyday events using iterated learning. *Cognitive Science*, *33*, 969-998.
30. Xu, J., & **Griffiths, T.L.** (2010). A rational analysis of the effects of memory biases on serial reproduction. *Cognitive Psychology*, *60*, 107-126.
31. Sanborn, A.N., **Griffiths, T.L.**, & Shiffrin, R. (2010). Uncovering mental representations with Markov chain Monte Carlo. *Cognitive Psychology*, *60*, 63-106.
32. Kemp, C., Tenenbaum, J.B., Niyogi, S., & **Griffiths, T.L.** (2010). A probabilistic model of theory formation. *Cognition*, *114*, 165-196.
33. Lucas, C.G., & **Griffiths, T.L.** (2010). Learning the form of causal relationships using hierarchical Bayesian models. *Cognitive Science*, *34*, 113-147.
34. Blei, D.M., **Griffiths, T.L.**, & Jordan, M.I. (2010). The nested Chinese restaurant process and Bayesian inference of topic hierarchies. *Journal of the ACM*, *57*, 130.
35. Reali, F., & **Griffiths, T.L.** (2010). Words as alleles: Connecting language evolution with Bayesian learners to models of genetic drift. *Proceedings of the Royal Society, Series B*, *277*, 429-436.
36. Rosen-Zvi, M., Chemudugunta, C., **Griffiths, T.**, Smyth, P., & Steyvers, M. (2010). Learning author-topic models from text corpora. *ACM Transactions on Information Systems*, *28*, 1-38.
37. Shi, L., **Griffiths, T.L.**, Feldman, N.H., & Sanborn, A.N. (2010). Exemplar models as a mechanism for performing Bayesian inference. *Psychonomic Bulletin & Review*, *17*, 443-464. (named Best Paper Published in *Psychonomic Bulletin & Review* in 2010)
38. Hsu, A.S., **Griffiths, T.L.**, & Schreiber, E. (2010). Subjective randomness and natural scene statistics. *Psychonomic Bulletin & Review*, *17*, 624-629.
39. Sanborn, A.N., **Griffiths, T.L.**, & Navarro, D.J. (2010). Rational approximations to rational models: Alternative algorithms for category learning. *Psychological Review*, *117*, 1144-1167.
40. **Griffiths, T.L.**, Chater, N., Kemp, C., Perfors, A., & Tenenbaum, J.B. (2010). Probabilistic models of cognition: Exploring representations and inductive biases. *Trends in Cognitive Sciences*, *14*, 357-364.
41. Frank, M., Goldwater, S., **Griffiths, T.L.**, & Tenenbaum, J.B. (2010). Modeling human performance in statistical word segmentation. *Cognition*, *117*, 107-125
42. **Griffiths, T.L.**, & Ghahramani, Z. (2011). The Indian buffet process: An introduction and review. *Journal of Machine Learning Research*, *12*, 1185-1224.
43. Tenenbaum, J.B., Kemp, C., **Griffiths, T.L.**, & Goodman, N.D. (2011) How to grow a mind: Statistics, structure, and abstraction. *Science*, *331*, 1279-1285.
44. Goldwater, S., **Griffiths, T.L.**, & Johnson, M. (2011). Producing power-law distributions and damping word frequencies with two-stage language models. *Journal of Machine Learning Research*, *12*, 2335-2382.
45. Austerweil, J.L., & **Griffiths, T.L.** (2011). Seeking confirmation is rational for deterministic hypotheses. *Cognitive Science*, *35*, 499-526.
46. Perfors, A., Tenenbaum, J.B., **Griffiths, T.L.**, & Xu, F. (2011). A tutorial introduction to Bayesian

- models of cognitive development. *Cognition*, *120*, 302-321.
47. Buchsbaum, D., Gopnik, A., **Griffiths, T.L.**, & Shafto, P. (2011). Children's imitation of causal action sequences is influenced by statistical and pedagogical evidence. *Cognition*, *120*, 331-340.
 48. **Griffiths, T.L.**, Sobel, D., Tenenbaum, J.B., & Gopnik, A. (2011). Bayes and blickets: Effects of knowledge on causal induction in children and adults. *Cognitive Science*, *35*, 1407-1455.
 49. **Griffiths, T.L.**, & Tenenbaum, J.B. (2011). Predicting the future as Bayesian inference: People combine prior knowledge with observations when estimating duration and extent. *Journal of Experimental Psychology: General*, *140*, 725-743.
 50. Austerweil, J.L. & **Griffiths, T.L.** (2011). A rational model of the effects of distributional information on feature learning. *Cognitive Psychology*, *63*, 173-209.
 51. Martin, J.B., **Griffiths, T.L.**, & Sanborn, A.N. (2012). Testing the efficiency of Markov chain Monte Carlo with people using facial affect categories. *Cognitive Science*, *36*, 150-162.
 52. **Griffiths, T.L.**, Vul, E., & Sanborn, A.N. (2012). Bridging levels of analysis for probabilistic models of cognition. *Current Directions in Psychological Science*, *21*, 263-268.
 53. **Griffiths, T.L.**, & Austerweil, J.L. (2012). Bayesian generalization with circular consequential regions. *Journal of Mathematical Psychology*, *56*, 281-285.
 54. **Griffiths, T.L.**, Lewandowsky, S., & Kalish, M.L. (2013). The effects of cultural transmission are modulated by the amount of information transmitted. *Cognitive Science*, *37*, 953-967.
 55. Rafferty, A.N., **Griffiths, T.L.**, & Ettliger, M. (2013). Greater learnability is not sufficient to produce cultural universals. *Cognition*, *129*, 70-87.
 56. Denison, S., Bonawitz, E., Gopnik, A., & **Griffiths, T.L.** (2013). Rational variability in children's causal inferences: The sampling hypothesis. *Cognition*, *126*, 285-300.
 57. Schlerf, J., Xu, J., Klemfuss, N., **Griffiths, T.L.**, & Ivry, R.B. (2013). Individuals with cerebellar degeneration show similar adaptation deficits with large and small visuomotor errors. *Journal of Neurophysiology*, *109*, 1164-1173.
 58. Bouchard-Côté, A., Hall, D., **Griffiths, T.L.**, & Klein, D. (2013). Automated reconstruction of ancient languages using probabilistic models of sound change. *Proceedings of the National Academy of Sciences*, *110*, 4224-4229.
 59. Sanborn, A.N., Mansinghka, V.K., & **Griffiths, T.L.** (2013). Reconciling intuitive physics and Newtonian mechanics for colliding objects. *Psychological Review*, *120*, 411-437.
 60. Feldman, N.H., Myers, E.B., White, K.S., **Griffiths, T.L.**, & Morgan, J.L. (2013). Word-level information influences phonetic learning in adults and infants. *Cognition*, *127*, 427-438.
 61. Williams, J.J., & **Griffiths, T.L.** (2013). Why are people bad at detecting randomness? A statistical analysis. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *39*, 1473-1490.
 62. Xu, J., Dowman, M., & **Griffiths, T.L.** (2013). Cultural transmission results in convergence toward colour term universals. *Proceedings of the Royal Society B*, *280*, 20123073.
 63. Austerweil, J., & **Griffiths, T.L.** (2013). A nonparametric Bayesian framework for constructing flexible feature representations. *Psychological Review*, *120*, 817-851.
 64. Feldman, N.H., **Griffiths, T.L.**, Goldwater, S., & Morgan, J. (2013). A role for the developing lexicon in phonetic category acquisition. *Psychological Review*, *120*, 751-778.
 65. Vul, E., Goodman, N.D., Tenenbaum, J.B., & **Griffiths, T.L.** (2014). One and done? Optimal decisions from very few samples. *Cognitive Science*, *38*, 599-637.
 66. Canini, K.R., **Griffiths, T.L.**, Vanpaemel, W., & Kalish, M.L. (2014). Revealing inductive biases for category learning by simulating cultural transmission. *Psychonomic Bulletin & Review*, *21*, 785-793.

67. Lucas, C.G., Bridgers, S., **Griffiths, T.L.**, & Gopnik, A. (2014). When children are better (or at least more open-minded) learners than adults: Developmental differences in learning the forms of causal relationships. *Cognition*, *131*, 284-299.
68. Shafto, P., Goodman, N.D., & **Griffiths, T.L.** (2014). A rational account of pedagogical reasoning: Teaching by, and learning from, examples. *Cognitive Psychology*, *71*, 55-89.
69. Lucas, C.G., **Griffiths, T.L.**, Xu, F., Fawcett, C., Gopnik, A., Kushnir, T., Markson, L., & Hu, J. (2014). The child as econometrician: A rational model of preference understanding in children. *PLoS One*, *9*(3), e92160.
70. Rafferty, A.N., Zaharia, M., & **Griffiths, T.L.** (2014). Optimally designing games for behavioural research. *Proceedings of the Royal Society A*, *470*, 20130828.
71. Bonawitz, E., Denison, S., Gopnik, A., & **Griffiths, T.L.** (2014). Win-stay, lose-sample: A simple sequential algorithm for approximating Bayesian inference. *Cognitive Psychology*, *74*, 35-65.
72. Rafferty, A.N., **Griffiths, T.L.**, & Klein, D. (2014). Analyzing the rate at which languages lose the influence of a common ancestor. *Cognitive Science*, *38*, 1406-1431.
73. Bonawitz, E., Denison, S., Gopnik, A., & **Griffiths, T.L.** (2014). Probabilistic models, learning algorithms, response variability: Sampling in cognitive development. *Trends in Cognitive Sciences*, *18*, 497-500.
74. Kirby, S., **Griffiths, T.L.**, & Smith, K. (2014). Iterated learning and the evolution of language. *Current Opinion in Neurobiology*, *28*, 108-114.
75. Maurits, L., & **Griffiths, T.L.** (2014). Tracing the roots of syntax with Bayesian phylogenetics. *Proceedings of the National Academy of Sciences*, *111*, 13576-13581.
76. Rafferty, A.N., Lamar, M.M., & **Griffiths, T.L.** (2015). Inferring learners' knowledge from their actions. *Cognitive Science*, *39*, 584-618.
77. **Griffiths, T.L.**, Lieder, F., & Goodman, N.D. (2015). Rational use of cognitive resources: Levels of analysis between the computational and the algorithmic. *Topics in Cognitive Science*, *7*, 217-229.
78. Buchsbaum, D., **Griffiths, T.L.**, Plunkett, D., Gopnik, A., & Baldwin, D. (2015). Inferring action structure and causal relationships in continuous sequences of human action. *Cognitive Psychology*, *76*, 30-77.
79. **Griffiths, T.L.** (2015). Revealing ontological commitments by magic. *Cognition*, *136*, 43-48. (*Science* Editors' Choice)
80. Yeung, S., & **Griffiths T.L.** (2015). Identifying expectations about the strength of causal relationships. *Cognitive Psychology*, *76*, 1-29.
81. Gopnik, A., **Griffiths, T.L.**, & Lucas, C.G. (2015). When younger learners can be better (or at least more open-minded) than older ones. *Current Directions in Psychological Science*, *24*, 87-92.
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460. **Griffiths, T.L.**, Dasgupta, I., & Grant, E. (2024). Bayesian models and neural networks. In T. L. Griffiths, N. Chater, & J. B. Tenenbaum (Eds.), *Bayesian Models of Cognition: Reverse Engineering the Mind*. MIT Press.
461. Lieder, F., Callaway, F., & **Griffiths, T.L.** (2024). Resource-rational analysis. In T. L. Griffiths, N. Chater, & J. B. Tenenbaum (Eds.), *Bayesian Models of Cognition: Reverse Engineering the Mind*. MIT Press.
462. Kemp, C., Goodman, N. D., & **Griffiths, T.L.** (2024). Bayesian inference over logical representations. In T. L. Griffiths, N. Chater, & J. B. Tenenbaum (Eds.), *Bayesian Models of Cognition: Reverse Engineering the Mind*. MIT Press.
463. Chater, N., **Griffiths, T.L.**, & Tenenbaum, J. B. (2024). A Bayesian conversation. In T. L. Griffiths, N. Chater, & J. B. Tenenbaum (Eds.), *Bayesian Models of Cognition: Reverse Engineering the Mind*. MIT Press.

Technical reports, invited articles, and other unreviewed publications

464. Tenenbaum, J.B., & **Griffiths, T.L.** (2001). Some specifics about generalization. *Behavioral and Brain Sciences*, *24*, 772-778. (response to commentaries)
465. Kemp, C., **Griffiths, T.L.**, & Tenenbaum, J.B. (2004). *Discovering latent classes in relational data*. AI Memo 2004-019, Massachusetts Institute of Technology.
466. **Griffiths, T.L.**, & Ghahramani, Z. (2005). *Infinite latent feature models and the Indian buffet process*. Gatsby Technical Report 2005-001, Gatsby Computational Neuroscience Unit, University College London.
467. **Griffiths, T.L.**, & Yuille, A. (2006). A primer on probabilistic inference. *Trends in Cognitive Sciences*. Supplement to special issue on Probabilistic Models of Cognition (volume 10, issue 7).
468. **Griffiths, T.L.**, & Tenenbaum, J.B. (2006). Statistics and the Bayesian mind. *Significance*, *3*, 130-133. (invited paper)
469. Smith, K., Kalish, M.L., **Griffiths, T.L.**, & Lewandowsky, S. (2008). Cultural transmission and the evolution of human behaviour: Introduction to the issue. *Philosophical Transactions of the Royal Society*, *363*, 3469-3476.
470. **Griffiths, T.L.** (2009). The strengths of – and some of the challenges for – Bayesian models of cognition. *Behavioral and Brain Sciences*. (commentary)
471. **Griffiths, T.L.** (2009). Connecting human and machine learning via probabilistic models of cognition. *InterSpeech 2009*. (invited paper)
472. **Griffiths, T.L.** (2011). Rethinking language: How probabilities shape the words we use. *Proceedings of the National Academy of Sciences*, *108*, 3825-3826. (invited commentary)
473. **Griffiths, T.L.**, & Real F. (2011). Modeling minds as well as populations. *Proceedings of the Royal Society, Series B*. (response to commentary)
474. Xu, F., & **Griffiths, T.L.** (2011). Probabilistic models of cognitive development: Towards a rational constructivist approach to the study of learning and development. *Cognition*, *120*, 299-301. (introduction to special issue)
475. Chater, N., Goodman, N.D., **Griffiths, T.L.**, Kemp, C., Oaksford, M., & Tenenbaum, J.B. (2011). The imaginary fundamentalists: The unshocking truth about Bayesian cognitive science. *Behavioral and Brain Sciences*, *34*, 194-196. (commentary)
476. **Griffiths, T.L.**, Chater, N., Norris, D., & Pouget, A. (2012). How the Bayesians got their beliefs (and what those beliefs actually are). *Psychological Bulletin*, *138*, 415-422. (comment)
477. Jia, Y., Abbott, J., Austerweil, J., **Griffiths, T.**, & Darrell, T. (2012). *Visually-grounded Bayesian word learning*. Technical Report UCB/EECS-2012-202, EECS Department, University of California, Berkeley.
478. **Griffiths, T.L.** (2013). Bayesian approaches to color category learning. *Encyclopedia of Color Science and Technology*. New York: Springer.
479. Goodman, N.D., Frank, M.C., **Griffiths, T.L.**, Tenenbaum, J.B., Battaglia, P., & Hamrick, J. (2015). Relevant and robust. A response to Marcus and Davis. *Psychological Science*, *26*, 539-541.
480. **Griffiths, T.L.** (2015). Manifesto for a new (computational) cognitive revolution. *Cognition*, *135*, 21-23. (invited paper)
481. Lieder, F., & **Griffiths, T.L.** (2020). Advancing rational analysis to the algorithmic level. *Behavioral and Brain Sciences*, *43*, e27. (response to commentaries)

INVITED TALKS

- 2024 Workshop on Behavioral Machine Learning, NeurIPS, Vancouver, BC. (plenary)
 Workshop on Language Gamification, NeurIPS, Vancouver, BC. (plenary)

- Empirical Methods in Natural Language Processing, Miami, FL. (keynote)
- Workshop on Naturalistic Approaches to Artificial Intelligence, Institute for Pure and Applied Mathematics, University of California, Los Angeles.
- Brain and Cognitive Science Colloquium, Massachusetts Institute of Technology, Cambridge, MA.
- Kempner Institute Colloquium, Harvard University, Cambridge, MA.
- Google DeepMind, London, UK.
- Workshop on Neuroscience and Artificial Intelligence, Norway.
- Conference on Statistical Learning, San Sebastian, Spain. (keynote)
- Department of Psychology, University of Arizona, Tucson, AZ.
- 2023 Columbia Seminar on Cognitive/Behavioral Neuroscience, Columbia University, New York, NY.
- Center for Mind, Brain, and Culture Colloquium, Emory University, Atlanta, GA.
- Data Science and AI Seminar, University of Georgia, Athens, GA.
- Decision Experience and Behavior (DEB) Seminar, University of Haifa, Haifa, Israel.
- Cognitive Science Colloquium, Département d'Études Cognitives, École Normale Supérieure, Paris, France.
- Neuroeconomics Seminar, University of Zurich, Switzerland.
- Chen Institute Symposium, Caltech, Los Angeles, CA.
- AI Center for Research, New Jersey Institute of Technology, Newark, NJ.
- Humanizing the Sustainable Smart City Workshop, Stockholm, Sweden.
- AI, Cognition, and the Economy Workshop, Microsoft Research, New York, NY.
- ML in NYC talk, Flatiron Institute, New York, NY.
- 33rd Advanced School in Economic Theory, Hebrew University Jerusalem, Israel.
- Engineering colloquium, Cambridge University, Cambridge UK.
- UniReps workshop, Neural Information Processing Systems conference, New Orleans, LA.
- 2022 Panelist, Methods and Measurement, First Global Scientific Conference on Human Flourishing.
- Association for Cognitive Science Conference, Delhi, India. (keynote)
- Precision-Convergence Webinar, McGill Centre for the Convergence of Health and Economics (MC-CHE), Montreal, Canada.
- Conference on Digital Experimentation (CODE), Massachusetts Institute of Technology, Cambridge, MA. (keynote)
- Joint Seminar, Harvard Business School and Department of Economics, Cambridge, MA.
- Society for Neuroeconomics, Crystal City, VA. (keynote)
- Edinburgh Lectures on Language, University of Edinburgh.
- International Conference on Computational Social Science (IC2S2), Chicago, IL. (keynote)
- Mind and Machine Seminar, Bristol University.
- Tech talk, Facebook AI Research.
- 2021 Workshop on "I can't believe it's not better," Neural Information Processing Systems conference.
- Workshop on "Ecological reinforcement learning," Neural Information Processing Systems conference.
- Colloquium, Computer Science Department, University of Rochester.
- Computational Psychiatry group, University College London.
- Workshop on "Computational Cognition," University of Osnabruck.

- Crowder lecture, Department of Psychology, Yale University.
 Eastern European Machine Learning Summer School.
 Toyota Research Institute Machine Assisted Cognition group.
 Tech Talk, Facebook Reality Labs.
 Center for Human-Compatible Artificial Intelligence, University of California, Berkeley, CA
 Rutgers Perceptual and Cognitive Science Forum (keynote), Rutgers University, New Brunswick, NJ.
 Workshop on “Surprise, Curiosity, and Reward” École Polytechnique Fédérale de Lausanne.
 Cognitive psychology talk series, University of California, Los Angeles, CA.
- 2020 Workshop on “The Future of Linguistics,” Max Planck Institute, Nijmegen, the Netherlands.
 Human Machine Intelligence talk series, University of Virginia, VA.
 Colloquium, Department of Psychology, University of British Columbia, Vancouver, Canada.
 Decision-making and Reinforcement Learning talk series, Max Planck Institute, Tübingen, Germany.
 AI4All summer school, Princeton, NJ.
 Workshop on “Cognitive Effort,” Annual Conference of the Cognitive Science Society.
 Diverse Intelligences Summer Institute, St. Andrews, Scotland.
 Workshop on “Human in the Loop Learning,” International Conference on Machine Learning.
 Workshop on “Machine Learning, Theory, and Method in the Social Sciences,” Institute for Advanced Study, Princeton, NJ. (public lecture)
 Workshop on “Minds and Machines,” University of California, Santa Barbara, Santa Barbara, CA.
 Workshop on “Virtual Labs,” University of Pennsylvania, Philadelphia, PA.
- 2019 Workshop on “Learning from Rich Experience,” Neural Information Processing Systems conference, Vancouver, Canada.
 Decision-making colloquium, Wharton Business School, University of Pennsylvania, Philadelphia, PA.
 Annual meeting of the Society for Judgment and Decision-making (JDM), Montreal, Canada. (keynote)
 Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland.
 Workshop on “Heuristics, Hacks, and Habits,” Annual Conference of the Cognitive Science Society, Montreal, Canada.
 Amazon TechTalk, Seattle, WA.
 Reinforcement Learning and Decision-Making, Montreal, Canada. (keynote)
 Workshop on “AI and Cognitive Development,” Facebook Artificial Intelligence Research, New York, NY.
 Janet Taylor Spence Symposium, Association for Psychological Science, Washington, DC.
 Computational Social Science Colloquium, University of Chicago, Chicago, IL.
- 2018 Microsoft Research, New York, NY.
 Decision and Cognition talk series, Columbia University, New York, NY.
 Gartner Symposium, Gold Coast, Australia. (keynote)
 Hong Kong AI Summit, Hong Kong, China. (keynote)
 Research talk, Microsoft Research New York, New York, NY.
 Cognition and Decision-Making Colloquium, Columbia University, New York, NY.
 Cognition-Perception Colloquium, New York University, New York, NY.
 Amazon Research Scientist Summit, Semiahmoo, WA. (keynote)

- Workshop on Exploration and Exploitation, Annual Conference of the Cognitive Science Society, Madison, WI.
- “Beyond deep learning” workshop, Brown University, Providence, RI.
- Roger N. Shepard Visiting Scholar, University of Arizona, Tucson, AZ.
- Sloan-Nomis workshop on “Attention and decision-making”, New York, NY.
- Affective Brain lab meeting, University College London, London, UK.
- Sensors group, Uber, San Francisco, CA.
- 2017 Workshop on Cognitively-Inspired Artificial Intelligence, Neural Information Processing Systems conference, Long Beach, CA.
- Sloan-Nomis workshop on “Attention and decision-making”.
- Debate on “Big data and the mind,” Northwestern University, Evanston, IL.
- Cognitive Computational Neuroscience conference, New York, NY. (keynote)
- TEDx Sydney, Sydney, Australia.
- Institute of Neuroinformatics, Universität Zürich, Switzerland.
- Simons Institute workshop on “Representation learning”, Berkeley, CA.
- 2016 The Commonwealth Club, San Francisco, CA.
- Bay Area ACM chapter, Menlo Park, CA.
- OpenAI, San Francisco, CA.
- Stripe, San Francisco, CA.
- Facebook, Menlo Park, CA.
- Rotman School of Management, University of Toronto.
- Google Book Talks, Mountain View, CA.
- The Commonwealth Club of Silicon Valley, Santa Clara, CA.
- California Institute of Integral Studies, San Francisco, CA.
- Cloudera, San Francisco, CA.
- Department of Psychology, Carnegie Mellon University.
- Mind lecture, University of Kansas.
- Center for Cognitive Science, University of Minnesota.
- 2015 Center for Statistics and Machine Learning, Princeton University.
- Brain day, University of Waterloo, Canada.
- Psychology colloquium, University of Pennsylvania.
- Teuber lecture, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology.
- Organizational Behavior group, Stanford Graduate School of Business.
- Cognitive Science Keynote, Yale University.
- 2014 Decision Making Conference, Bristol, UK. (keynote)
- Working group on collective cognition, Santa Fe Institute, Santa Fe, NM.
- Translational Neuroscience Unit, ETH Zürich, Switzerland.
- Cognitive Science colloquium, Central European University, Budapest, Hungary.
- Institute of Neuroinformatics, Universität Zürich, Switzerland.
- IARPA workshop on “Cognitive Science 2.0,” Fort Meade, MD.

- 2013 Mind, Brain, and Computation colloquium, Stanford University.
 Department of Statistics, Duke University.
 Distinguished Speakers in Cognitive Science Lecture Series, Michigan State University.
 Departmental colloquium, Department of Psychology, Princeton University.
 Workshop on Integrating Approaches to Computational Cognition, National Science Foundation.
 Sage Junior Fellows Workshop, University of California, Santa Barbara.
 Computational Social Sciences colloquium, University of Massachusetts, Amherst.
- 2012 Plenary symposium on “30 Years of Marr’s Levels of Analysis,” Annual Conference of the Cognitive Science Society.
 Evolution of Language conference, Kyoto, Japan. (keynote)
 Computational and Systems Neuroscience (CoSyNe) conference, Salt Lake City, Utah. (keynote)
 Debate on Bayesian models of Cognition, Cognitive Science Program, Northwestern University.
 Cognition and Language Group, Stanford University.
- 2011 Researching Communication Conference, University of Western Sydney, Sydney, Australia. (keynote)
 Department of Linguistics, University of Maryland.
 Department of Psychology, Cornell University.
 International Conference on Artificial Neural Networks, Helsinki, Finland. (keynote)
 Stanford Psychology of Language Talk, Stanford University.
 Swartz Institute for Theoretical Neuroscience, Yale University.
 California Cognitive Science Students Conference, University of California, Berkeley (keynote).
 Cognitive Science Department, University of California, San Diego.
 Mind, Brain, and Computation Colloquium, Stanford University.
- 2010 Symposium on “The cognition and language of color,” Optical Society of America Fall Vision Meeting, Rochester, NY.
 Workshop on “Computational models of the mind,” Stanford University, Stanford, CA.
 Annual Meeting of the Society for Mathematical Psychology, Portland, OR.
 Workshop on “Language as an evolutionary system,” University of Edinburgh.
 School of Informatics, University of Edinburgh.
 Society of Experimental Psychologists, Philadelphia, PA.
 Department of Anthropology, University of California, Los Angeles, Los Angeles, CA.
 Cognitive Science Center, University of Minnesota, Minneapolis, MN.
 Human, Social, Culture, and Behavior Modeling group, Naval Postgraduate School, Monterey, CA.
 Workshop on “The sampling hypothesis,” Computational and Systems Neuroscience (CoSyNe) conference, Park City, UT.
 School of Psychology, University of Western Australia.
 Institute for Research in Cognitive Science, University of Pennsylvania.
- 2009 Workshop on “Nonparametric Bayes,” Neural Information Processing Systems conference, Vancouver, BC.
 InterSpeech 2009, Brighton, UK. (keynote)
 Workshop on “Pedagogical reasoning,” 31st Annual Conference of the Cognitive Science Society, Amsterdam, Netherlands.

- Child Language Research Forum, Linguistic Society of America Summer Institute, Berkeley, CA. (keynote)
- Department of Statistics, Carnegie Mellon University, Pittsburgh, PA.
- Workshop on “Human and machine learning,” Institute for Mathematical Behavioral Sciences, University of California, Irvine, Irvine, CA.
- 2008 Empirical Methods in Natural Language Processing conference, Honolulu, HI. (keynote)
- Workshop on “The cognitive science of induction and confirmation,” Venice, Italy.
- International Meeting of the Psychometric Society, Durham, NH. (keynote)
- Quantitative talk series, Psychology Department, University of California, Davis, Davis, CA.
- Symposium on “Bayesian models of perception,” Annual Meeting of the Vision Sciences Society, Naples, FL.
- Workshop on “Language and Cognition,” University of Chicago, Chicago, IL.
- Cognitive Science Department, University of Arizona, Tucson, AZ.
- Workshop on “Core cognitive developmental mechanisms of understanding social causation and the establishment of conceptual representations of causal and intentional agency and action,” Center for Advanced Study in the Behavioral Sciences, Stanford University, Palo Alto, CA.
- Computer Science Department, University of Utah, Salt Lake City, UT.
- Computer Science Department, Brigham Young University, Provo, UT.
- Cognitive Science Department, University of California, Merced, Merced, CA.
- Workshop on “Evolution of psychological categories,” Institute for Mathematical Behavioral Sciences, University of California, Irvine, CA.
- Workshop on “Spanning the Socio-Cognitive Modeling Gap: From Development to Social Simulation,” Massachusetts Institute of Technology, Cambridge, MA.
- 2007 Distinguished Speaker Series, Center for Machine Learning and Intelligent Systems, University of California, Irvine, Irvine, CA.
- Cowles symposium, Cowles Foundation for Research in Economics, Yale University, New Haven, CN.
- Natural language processing group, Microsoft Research, Redmond, WA.
- Psychology Department, University of California, San Diego, La Jolla, CA.
- Center for the Study of Language and Information, Stanford, CA.
- Psychology Department, Stanford University, Stanford, CA.
- Workshop on “Normative models in neuroscience” Computational and Systems Neuroscience (CoSyNe) conference, Park City, UT.
- 2006 Department of Psychology, University of California, Los Angeles, Los Angeles, CA.
- Department of Statistics, University of California, Los Angeles, Los Angeles, CA.
- Bayes focus week, Statistics and Mathematical Sciences Institute, Research Triangle Park, NC.
- NeuroCritical Care Conference, Baltimore, MD. (keynote)
- Center for Mind, Brain, and Computation, Stanford University, Stanford, CA.
- AI group, SRI, Palo Alto, CA.
- NSF Science of Learning Center conference on “Generalization of knowledge,” University of Colorado, Boulder, CO.
- Department of Brain and Cognitive Sciences, University of Rochester, Rochester, NY.
- Department of Psychology, Yale University, New Haven, CN.

- 2005 Workshop on “Bayesian natural language processing” at the Neural Information Processing Systems conference, Whistler, BC.
 Institute for Research in Cognitive Science, University of Pennsylvania, Philadelphia, PA.
 “Empirical inference” symposium, Max Planck Institute for Biological Cybernetics, Tubingen, Germany.
 Language Evolution and Computation Research Unit, Edinburgh University, Edinburgh, Scotland.
 Brain Sciences Program, Brown University, Providence, RI.
- 2004 Institute of Cognitive and Brain Sciences seminar, UC Berkeley, Berkeley, CA.
 “Hot topics” workshop on Visualization and Analysis of High Dimensional Data, Mathematical Sciences Research Institute, Berkeley, CA.
 Department of Psychology, Harvard University, Cambridge, MA.
 Gatsby Computational Neuroscience Unit, University College London.
 Department of Cognitive and Linguistic Sciences, Brown University, Providence, RI.
- 2003 Computer Science Department, University of California, Berkeley, CA.
 Psychology Department, University of California, Irvine, CA.
 Sackler Colloquium on “Mapping knowledge domains,” National Academy of Sciences, Irvine, CA.
 NTT Communication Sciences Laboratory, Osaka, Japan.
- 2002 Psychology Department, University of Colorado, Boulder, CO.
 Psychology Department, Indiana University, Bloomington, IN.
 Applied statistics workshop, Center for Behavioral Research in the Social Sciences, Harvard University, Cambridge, MA.
- 2001 Psychology Department, University of California, San Diego, CA.

OTHER TALKS AND CONFERENCE PRESENTATIONS

- 2024 Science of Magic conference, Las Vegas, NV.
- 2023 Annual meeting of the Society of Experimental Psychologists, Pennsylvania, PA.
- 2021 International Conference on Thinking, Paris, France.
- 2019 Annual Conference of the Society for Philosophy and Psychology, San Diego, CA.
 Annual Meeting of the Society of Experimental Psychologists, New Brunswick, NJ.
- 2016 Annual Meeting of the Psychonomic Society, Boston, MA.
- 2015 Symposium on generative and discriminative models, Annual Conference of the Cognitive Science Society, Pasadena, CA.
- 2014 Society of Experimental Psychologists, Los Angeles, CA.
 Association for Psychological Science conference, San Francisco, CA.
 Workshop on deep learning, Annual Conference of the Cognitive Science Society, Quebec City, Canada.
- 2013 Uncertainty in Artificial Intelligence conference, Seattle, WA.
- 2012 Symposium on “Psychonomics without experiments”, Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- 2011 Society for Philosophy and Psychology, Montreal, Canada.

- 2010 Annual Summer Interdisciplinary Conference, Bend, OR.
 Australasian Mathematical Psychology Conference, Margaret River, Western Australia.
- 2009 31st Annual Conference of the Cognitive Science Society, Amsterdam, The Netherlands.
- 2008 Biennial Meeting of the Philosophy of Science Association, Pittsburgh, PA.
 International Conference on Thinking, Venice, Italy.
 Annual meeting of the Society for Mathematical Psychology, Washington, DC.
 30th Annual Conference of the Cognitive Science Society, Washington, DC.
- 2007 Neural Information Processing Systems conference, Vancouver, BC.
 Annual meeting of the Society for Mathematical Psychology, Irvine, CA.
 29th Annual Conference of the Cognitive Science Society, Nashville, TN.
 Cognitive Development Society, Santa Fe, NM.
 Society for Research in Child Development, Boston, MA.
- 2006 Neural Information Processings Systems Conference, Vancouver, BC.
 Annual meeting of the Psychonomic Society, Houston, TX.
 Annual meeting of the Society for Mathematical Psychology, Vancouver, BC.
 28th Annual Conference of the Cognitive Science Society, Vancouver, BC.
 Eastern Psychological Association, Baltimore, MD.
- 2005 Neural Information Processing Systems conference, Vancouver, BC.
 Annual meeting of the Society for Judgment and Decision-Making, Toronto, ON.
 Annual meeting of the Psychonomic Society, Toronto, ON.
 27th Annual Conference of the Cognitive Science Society, Stresa, Italy.
- 2004 Workshop on “Probabilistic models of categorization,” Neural Information Processing Systems conference, Whistler, BC.
 Neural Information Processing Systems conference, Vancouver, BC.
 Annual meeting of the Psychonomic Society, Minneapolis, MN.
 Annual Cape Cod conference on Monte Carlo Methods, Cambridge, MA.
 Society for Philosophy and Psychology conference, Barcelona, Spain.
 Annual Summer Interdisciplinary Conference, Cavalese, Italy.
 26th Annual Conference of the Cognitive Science Society, Chicago, IL.
- 2003 Workshop on “Syntax, Semantics, and Statistics,” Neural Information Processing Systems conference, Whistler, BC.
 Neural Information Processing Systems conference, Vancouver, BC.
 25th Annual Conference of the Cognitive Science Society, Boston, MA.
 DIMACS workshop on “Complexity and inference,” Rutgers University, Piscataway, NJ.
- 2002 Neural Information Processing Systems conference, Vancouver, BC.
 24th Annual Conference of the Cognitive Science Society, Fairfax, VA.
- 2001 23rd Annual Conference of the Cognitive Science Society, Edinburgh, Scotland.
 Neural Information Processing Systems conference, Denver, CO.
 Workshop on “Causal learning and inference in humans and machines,” Neural Information Processing Systems conference, Denver, CO.
- 2000 22nd Annual Conference of the Cognitive Science Society, Philadelphia, PA.
 Neural Information Processing Systems conference, Denver, CO.

PROFESSIONAL ACTIVITIES

Editorial and reviewing

- 2023- Section editor, *Open Encyclopedia of Cognitive Science*.
- 2017- Editorial board member, *Open Mind*.
- 2010- Consulting editor, *Psychological Review*.
- 2009- Editorial board member, *Journal of Machine Learning Research*.
- 2009- Editorial board member, *Cognitive Science*.
- 2007- Program committee member, Annual Conference of the Cognitive Science Society.
- 2021- Senior area chair, Neural Information Processing Systems conference.
- 2013 Member of search committee for new editor, *Psychonomic Bulletin & Review*.
- 2010-2011 Guest editor for special issue of *Cognition* (with Fei Xu).
- 2008 Guest editor for special issue of *Philosophical Transactions of the Royal Society* (with Kenny Smith, Mike Kalish, and Steve Lewandowsky).
- 2006-2009 Consulting editor, *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- 2005-2012 Member of tutorial organizing committee, Annual Conference of the Cognitive Science Society.
- 2005-2006 Area chair for cognitive science and graphical models, Neural Information Processing Systems conference.

Ad hoc reviewer and panelist for the National Science Foundation (multiple programs), ad hoc reviewer for equivalent organizations in the United Kingdom, Australia, European Union, and Canada. Ad hoc reviewer for *Cognitive Science*, *Cognitive Psychology*, *Psychonomic Bulletin and Review*, *Psychological Review*, *Journal of Machine Learning Research*, *Annals of Applied Statistics*, *Nature Human Behavior*, *Memory and Cognition*, *Neurocomputing*, *Psychological Science*, *Cognition*, *Advances in Applied Mathematics*, *Journal of Mathematical Psychology*, *Psychological Bulletin*, *PLoS Computational Biology*, *Behavioral and Brain Sciences*, *Proceedings of the Royal Society*, *Journal of the Royal Society: Interface*, *Journal of Experimental Psychology: General*, *Complexity*, *PLoS One*, *Acta Psychologica*, *European Journal of Cognitive Psychology*, *Journal of Memory and Language*, *IEEE Transactions on Audio, Speech, and Language Processing*, *Journal of Artificial Intelligence Research*, *Adaptive Behavior*, *Interaction Studies*, *Computational Linguistics*, *Language Learning*, *Trends in Cognitive Science*, *Proceedings of the National Academy of Sciences*, *Science*, *Nature*, the Annual Conference of the Cognitive Science society, the International Conference on Machine Learning, the Artificial Intelligence and Statistics conference, the International Joint Conference on Artificial Intelligence, the National Conference on Artificial Intelligence, the Uncertainty in Artificial Intelligence conference, the Annual Meeting of the Association for Computational Linguistics, the Empirical Methods in Natural Language Processing conference, and the Neural Information Processing Systems conference.

Workshop and symposium organization

- 2024 Co-organizer, workshop on “Naturalistic Approaches to Artificial Intelligence,” Institute for Pure and Applied Mathematics, University of California, Los Angeles.
Co-organizer, workshop on “From Symbols to Signals,” The Royal Society, London, UK.
- 2023 Co-organizer, workshop on “Large Language Models meet Cognitive Science,” Annual Meeting of the Cognitive Science Society.

- 2022 Co-organizer, workshop on “Shared Visual Representations in Human and Machine Intelligence,” Neural Information Processing Systems conference.
- 2021 Co-organizer, workshop on “Shared Visual Representations in Human and Machine Intelligence,” Neural Information Processing Systems conference.
Co-organizer, workshop on “Human and Machine Decisions,” Neural Information Processing Systems conference.
- 2020 Co-organizer, workshop on “Scaling cognitive science,” Annual Conference of the Cognitive Science Society.
- 2019 Co-organizer, workshop on “Shared Visual Representations in Human and Machine Intelligence,” Neural Information Processing Systems conference.
Co-organizer, workshop on “Scaling cognitive science,” Princeton University, Princeton NJ.
- 2015 Co-organizer, workshop on “Bounded optimality and metareasoning,” Neural Information Processing Systems conference.
- 2010 Co-organizer, workshop on “Transfer learning by learning rich generative models,” Neural Information Processing Systems conference.
- 2009 Co-organizer, workshop on “Bounded-rational analyses of human cognition,” Neural Information Processing Systems conference.
Co-organizer, workshop on “Probabilistic models of cognitive development,” Banff International Research Station, Banff, Canada.
- 2008 Co-organizer, workshop on “Connecting probabilistic models of cognition and neural networks,” University of California, Berkeley, Berkeley, CA.
- 2007 Co-organizer, symposium on “Modern Monte Carlo methods,” Meeting of the Society for Mathematical Psychology.
- 2003 Co-organizer, workshop on “Syntax, semantics, and statistics,” Neural Information Processing Systems conference.
- 2001 Co-organizer, workshop on “Causal learning and inference in humans and machines,” Neural Information Processing Systems conference.

External tutorials

- 2022 Sloan-Nomis Summer School on Cognitive Foundations of Economic Behavior, Luzern, Switzerland.
- 2018 Sloan-Nomis Summer School on Cognitive Foundations of Economic Behavior, Luzern, Switzerland.
- 2017 Co-organizer, Data on the Mind Summer School, University of California, Berkeley.
- 2011 Tutorials on Causality and Monte Carlo as part of the Graduate Summer School on probabilistic models of cognition at the Institute for Pure and Applied Mathematical, University of California, Los Angeles.
- 2010 Co-presenter, tutorial on “Bayesian models of inductive learning,” Annual Conference of the Cognitive Science Society.
Tutorials on Causality, Nonparametric Bayes, and Monte Carlo methods at Machine Learning and Cognitive Science Summer School.
Tutorial on “Bayesian models of cognition,” Australasian Mathematical Psychology Conference.
- 2008 Co-presenter, tutorial on “Bayesian models of inductive learning,” Annual Conference of the Cognitive Science Society.

2007 Tutorials on graphical models, Monte Carlo, categorization, causal induction, and assorted other topics as part of the Graduate Summer School on probabilistic models of cognition at the Institute for Pure and Applied Mathematics, University of California, Los Angeles.

2006 Co-presenter, tutorial on “Bayesian models of inductive learning,” Annual Conference of the Cognitive Science Society.

2004 Co-presenter, tutorial on “Bayesian models of inductive learning,” Annual Conference of the Cognitive Science Society.

Media coverage

Research mentioned in *The Economist*, *The Atlantic*, *New Scientist*, *The New York Times Magazine*, *San Jose Mercury News*, *Psychology Today*, *Slate*, and *Cosmopolitan*, and on National Public Radio, BBC Radio, Canadian Broadcasting Corporation Radio One, *Scientific American* podcast, and the television program *Criminal Minds*, as well as a variety of science blogs. *Algorithms to Live By* was a question on the game show *Jeopardy* and inspired a song by the Brooklyn art-rock collective Foyer Red.

Profiled in *IEEE Intelligent Systems Magazine* as one of the “AI Ten to Watch” and *American Psychologist* as recipient of Distinguished Scientific Award for Early Career Contribution to Psychology.

ADVISING AND LAB ALUMNI

Undergraduate honors theses

Linsey Smith (graduate student, Northwestern University)
 Aaron Beppu (software engineer, Etsy.com)
 Brett Goldstein (analyst, Accenture Tech Labs)
 Andy Horng (programmer, Recommind)
 Nick Lewis (graduate student, Indiana University)
 Jared Lorince (graduate student, Indiana University)
 Jay Martin (graduate student, New York University)
 Julia Ying (graduate student, Cornell University)
 Rebecca Neumann (research analyst, RiskIQ)
 Avi Press (software engineer, Pandora)
 Benj Shapiro (researcher, Pandora)
 Tiffany Hwu (graduate student, University of California, Irvine)
 Priyam Das (graduate student, University of California, Irvine)
 Sonia Murthy (predoctoral researcher, Allen AI Institute)
 Pulkit Singh (researcher, Broad Institute)
 Tayler Jean-Jacques (investment associate, General Atlantic)
 Michael Hu (graduate student, New York University)

Graduate students

Sharon Goldwater (Reader, University of Edinburgh)
 Adam Sanborn (Assistant Professor, University of Warwick)
 Lei Shi (Associate, McKinsey & Company)
 Chris Lucas (Chancellor’s Fellow, University of Edinburgh)
 Naomi Feldman (Assistant Professor, University of Maryland)
 Kevin Canini (software engineer, Google)
 Jing Xu (Assistant Professor, University of Georgia)
 Saiwing Yeung (faculty member, Beijing Institute of Technology)
 Joseph Williams (Assistant Professor, University of Toronto)
 Joe Austerweil (Associate Professor, University of Wisconsin)
 Daphna Buchsbaum (Assistant Professor, Brown University)
 Anna Rafferty (Associate Professor, Carleton College)

Joshua Abbott (software engineer, Adobe)
M Pacer (software engineer, Netflix)
Jessica Hamrick (researcher, DeepMind)
Stephan Meylan (postdoctoral researcher, MIT)
David Bourgin (software engineer, Adobe)
Falk Lieder (Assistant Professor, University of California, Los Angeles)
Thomas Langlois (postdoctoral researcher, Princeton)
Joshua Peterson (postdoctoral researcher, Princeton)
Vael Gates (postdoctoral researcher, Stanford)
Rachel Jansen (postdoctoral researcher, NASA)
Erin Grant (postdoctoral fellow, University College London)
Michael Chang (researcher, DeepMind)
Fred Callaway (postdoctoral researcher, NYU)
Ruairidh Battleday (postdoctoral researcher, Harvard)
Rachit Dubey (postdoctoral researcher, MIT)
Mayank Agrawal (co-founder, RoundTable)

Postdoctoral researchers

Florencia Reali (faculty member, Universidad de Los Andes)
Wolf Vanpaemel (faculty member, Katholieke Universiteit Leuven)
Anne Hsu (lecturer, Queen Mary, University of London)
Liz Bonawitz (Associate Professor, Harvard University)
Luke Maurits (postdoctoral researcher, University of Auckland)
Tom Morgan (Assistant Professor, Arizona State University)
Alex Paxton (Assistant Professor, University of Connecticut)
Jordan Suchow (Assistant Professor, Stevens Institute of Technology)
Aida Nematzadeh (researcher, DeepMind)
Daniel Reichman (Assistant Professor, Worcester Polytechnic Institute)
Nori Jacoby (Assistant Professor, Cornell University)
Bill Thompson (Assistant Professor, University of California, Berkeley)
Ishita Dasgupta (researcher, DeepMind)
Qiong Zhang (Assistant Professor, Rutgers University)
Mark Ho (Assistant Professor, New York University)
Bas van Opheusden (AI Research Scientist, Imbue)
Robert Hawkins (Assistant Professor, Stanford University)
Thomas Langlois (postdoctoral researcher, University of Texas, Austin)
Joshua Peterson (Assistant Professor, Boston University)