Judith E. Fan

Assistant Professor Department of Psychology University of California, San Diego La Jolla, CA 92093 U.S.A.

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Academic Positions

Assistant Professor, Psychology, University of California, San Diego

Affiliated Faculty, Neurosciences Graduate Program, Halıcıoğlu Data Science
Institute, The Design Lab, Computational Social Sciences Program

Postdoctoral Scholar, Psychology, Stanford University

2016 Postdoctoral Research Associate, Neuroscience Institute, Princeton University

Education

2011—2016 PhD, Psychology, Princeton University
2006—2010 AB, Neurobiology and Statistics, Harvard College summa cum laude

Honors

2021	Outstanding Faculty Mentorship Award, UC San Diego Graduate Student Association
2017	Robert J. Glushko Prize for Outstanding Doctoral Dissertation, Cognitive Science Society
2017	Finalist for the NIH Director's Early Independence Award
2015	Computational Modeling Paper Prize in Perception & Action, Cognitive Science Society
2013	Early Graduate Student Researcher Award, American Psychological Association
2013	Object Perception, Attention, and Memory (OPAM) Student Travel Award
2009	Phi Beta Kappa, Harvard University
2007-2008	John Harvard Scholar, Harvard University (top 5% of class)
2006-2007	Harvard College Scholar, Harvard University (top 10% of class)
2006	Presidential Scholar, U.S. Department of Education (1 of 2 selected from state)

Research Grants

2022-2023 School of Social Sciences Research Grant

Source: UC San Diego

Title: Measuring, modeling, and improving graph comprehension

Role: PI

2021-2026 Faculty Early Career Development Program (CAREER) Award

Source: National Science Foundation

Title: Mechanisms enabling the flexible expression of visual concepts

Role: PI

2021-2024 Science of Autonomy Research Grant

Source: Office of Naval Research

Title: Harnessing human intelligence for adaptive human-robot collaboration

Role: co-PI, w/ Dorsa Sadigh (PI)

2021-2023 Hoffman-Yee Research Grant

Source: Stanford Institute for Human-Centered Artificial Intelligence

Title: Curious, self-aware AI agents to build cognitive models and understand de-

velopmental disorders

Role: co-PI, w/ Daniel Yamins (PI), Mike Frank, Nick Haber, & Dennis Wall (co-PIs)

2020-2021 Course Development and Instructional Improvement Program Grant

Source: UC San Diego

Title: Enhancing the Psychology core methods curriculum: a new emphasis on computational literacy, open-science practices, and project-based collaboration

Role: PI, with Emma Geller and Celeste Pilegard (co-PIs)

2015-2016 Council of the Humanities David A. Gardner '69 Magic Project Grant

Source: Princeton University

Title: Drawing as a window into the mind Role: PI, with Nick Turk-Browne (co-PI)

Fellowships

2015-2016	Cognitive Science Graduate Student Fellowship, Princeton University
2015-2016	Cognitive Science Graduate Research Grant, Princeton University
2015-2016	Council on Science and Technology Research Grant, Princeton University
2013-2016	Graduate Research Fellowship, National Science Foundation
2011-2012	Andrew W. Mellon Foundation Research Fellowship in Cultural Policy, Princeton University
2011-2012	Walker McKinney '50 Life Sciences Fellowship, Princeton University
2010-2011	Michael C. Rockefeller Foundation Memorial Fellowship, Harvard University
2009	Mary G. Roberts Mind/Brain/Behavior Thesis Fellowship, Harvard University
2009	Program for Research in Science and Engineering Fellowship, Harvard University
2008	Weissman International Internship Program Fellowship, Harvard University
2008	Lowe Career Decision Loan Fund Recipient, Harvard University

Museum of Comparative Zoology Grants-in-Aid Recipient, Harvard University

2007-2009 Harvard College Research Program Fellowship, Harvard University

2006-2010 T.W. Lewis Foundation Scholar & Robert C. Byrd Scholar

Publications

under review Huey, H., Lu, X., Walker, C. and **Fan, J.** (*under review*). Explanatory drawings prioritize functional properties at the expense of visual fidelity.

under review Hawkins, R., Sano, M., Goodman, N., and **Fan, J.** (under review). Visual resemblance and communicative context constrain the emergence of graphical conventions.

under review Long, B., **Fan, J.**, Chai, Z., and Frank, M. (*under review*). Parallel developmental changes in children's drawing and recognition of visual concepts.

*Bear, D., *Wang, E., *Mrowca, D., *Binder, F., Tung, H.-Y., RT, P, Holdaway, C., Tao, S., Smith, K., Sun, F.-Y., Li, F.-F., Kanwisher, N., Tenenbaum, J., **Yamins, D., and ****Fan, J.** (2021). Physion: Evaluating physical prediction from vision in humans and machines. *In Advances in Neural Information Processing Systems (Datasets & Benchmarks Track)* 2021.

Binder, F., Mattar, M., Kirsh, D. and **Fan, J.** (2021). Visual scoping operations for physical assembly. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

Holdaway, C., Bear, D., Radwan, S., Frank, M., Yamins, D., and **Fan, J.** (2021). Measuring and predicting variation in the interestingness of physical structures. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

Holt, S., Barner, D., and **Fan, J.** (2021). Improvised numerals rely on 1-to-1 correspondence. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

Huey, H., Walker, C., and **Fan, J.** (2021). How do the semantic properties of visual explanations guide causal inference? *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

Kachergis, G., Radwan, S., Long, B., **Fan, J.**, Lingelbach, M., Bear, D., Yamins, D., and Frank, M. (2021). Predicting children's and adults' preferences in physical interactions via physics simulation. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

*McCarthy, W., *Hawkins, R., Wang, H., Holdaway, C., and **Fan, J.** (2021). Learning to communicate about shared procedural abstractions. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

McCarthy, W., Mattar, M., Kirsh, D. and **Fan, J.** (2021). Connecting perceptual and procedural abstractions in physical construction. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

Wang, H., Polikarpova, N., and **Fan, J.** (2021). Learning part-based abstractions for visual object concepts. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

Wang, H., Vul, E., Polikarpova, N., and **Fan, J.** (2021). Theory acquisition as constraint-based program synthesis. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

- Yang, J. and **Fan, J.** (2021). Visual communication of object concepts at different levels of abstraction. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*
- McCarthy, W., Holdaway, C., Hawkins, R., and **Fan, J.** (2020). Emergence of compositional abstractions in human collaborative assembly. *NeurIPS Workshop on Object Representations for Learning and Reasoning*.
- McCarthy, W., and **Fan, J.** (2020). Rapid policy updating in human physical construction. *ICML Workshop on Object-Oriented Learning: Perception, Representation, and Reasoning.*
- Wang, H., and **Fan, J.** (2020). Library learning for structured object concepts. *ICML Workshop on Object-Oriented Learning: Perception, Representation, and Reasoning.*
- McCarthy W., Kirsh D., & Fan J. (2020). Learning to build physical structures better over time. Proceedings of the 42nd Annual Meeting of the Cognitive Science Society.
- Fan J., Wammes J., Gunn J., Yamins D., Norman K., Turk-Browne N. (2020). Relating visual production and recognition of objects in human visual cortex. *Journal of Neuroscience*.
- Xu T., Fan J., & Dow S. (2020). Schema and metadata guide the collective generation of relevant and diverse insights. Proceedings of the 8th AAAI Conference on Human Computation and Crowdsourcing.
- Fan J., Hawkins R., Wu M., & Goodman N. (2020). Pragmatic inference and visual abstraction enable contextual flexibility during visual communication. *Computational Brain & Behavior.*
- Achlioptas, P., **Fan J.**, Hawkins R., Guibas L., & Goodman N. (2019). ShapeGlot: Learning language for shape differentiation. *International Conference on Computer Vision (ICCV)*.
- Hawkins R.*, Sano, M.*, Goodman N., & Fan J. (2019). Graphical convention formation during visual communication. *Proceedings of the 41st Annual Meeting of the Cognitive Science Society.*
- Mukherjee K., Hawkins R., & Fan J. (2019). Communicating semantic part information in drawings. Proceedings of the 41st Annual Meeting of the Cognitive Science Society.
- Long B., Fan J., Chai R., & Frank M. (2019). Developmental changes in the ability to draw distinctive features of object categories. Proceedings of the 41st Annual Meeting of the Cognitive Science Society.
- Fan J., Dinculescu M., & Ha D. (2019). Collabdraw: An environment for collaborative sketching with an artificial agent. *Proceedings of the 2019 ACM SIGCHI Conference on Creativity and Cognition*.
- Cullen S., **Fan J.**, van der Brugge E., & Elga A. (2018). Improving analytical reasoning and argument understanding: A quasi-experimental field study of argument visualization. *npj* Science of Learning.
- Fan J., Yamins D., & Turk-Browne, N. (2018) Common object representations for visual production and recognition. *Cognitive Science*.
- Long, B., **Fan J.**, & Frank M. (2018) Drawing as a window into developmental changes in object representations. *Proceedings of the 40th Annual Conference of the Cognitive Science Society.*
- **Fan J.**, Hutchinson, J., and Turk-Browne, N. (2016) When past is present: Substitutions of long-term memory for sensory evidence in perceptual judgments. *Journal of Vision.* 16(8), 1-12.
- Fan J. and Turk-Browne, N. (2016) Incidental biasing of attention from long-term memory. Journal of Experimental Psychology: Learning, Memory, & Cognition. 42(6), 970-977.

Fan J., Turk-Browne, N., & Taylor, J. (2016) Error-driven learning in statistical summary 2016 perception. Journal of Experimental Psychology: Human Perception and Performance, 42(2), 266-280. Fan J., Yamins D., & Turk-Browne, N. (2015) Common object representations for visual recog-2015 nition and production. Proceedings of the 37th Annual Meeting of the Cognitive Science Society. Fan J. (2015) Drawing to learn: how producing graphical representations enhances scientific 2015 thinking. Translational Issues in Psychological Science. 1(2), 170-181. Fan J. and Suchow, J. (2014) The crowd is self-aware. Behavioral and Brain Sciences, 37(1), 2014 81-82. Fan J. and Turk-Browne, N. (2013) Internal attention to features in visual short-term memory 2013 guides object learning. Cognition, 129(2), 292-308. Fan J., Turk-Browne, N., & Taylor, J. (2013) Feedback-driven tuning of statistical summary 2013 representations. Visual Cognition, 21(6), 685-689. Fan J. (2013) Can ideas about food inspire real social change? The case of Peruvian gastron-2013 omy. Gastronomica, 13(2), 31-42. Strange B., Kroes M., Fan J., & Dolan R. (2010) Emotion causes targeted forgetting of estab-2010 lished memories. Frontiers in Behavioral Neuroscience. 4, 1-13. Sharot T., Shiner T. Brown A., Fan J., & Dolan, R. (2009) Dopamine enhances expectation of 2009 pleasure in humans. Current Biology, 24(19), 2077-1080. Invited Colloquia Cognitive technologies for uncovering useful abstractions 2022 Diverse Intelligences Summer Institute, August 2022. Cognitive tools for uncovering useful abstractions 2022 Max-Planck Institute for Biological Cybernetics, July 2022. Communicating visual concepts in context 2022 CVPR: Artificial Social Intelligence Workshop, June 2022. Physion: Evaluating physical prediction in humans and machines 2022 CVPR: Graph Machine Learning for Visual Computing Tutorial, June 2022. Cognitive tools for uncovering useful abstractions 2022 University of California, Irvine, April 2022. Cognitive tools for uncovering useful abstractions 2022 University of Wisconsin-Madison, March 2022. Cognitive tools for uncovering useful abstractions 2022 Dartmouth College, February 2022. Cognitive tools for uncovering useful abstractions 2022 Stanford University, February 2022. Cognitive tools for uncovering useful abstractions

University of California, Los Angeles, January 2022.

2022

Visual Content and Social Context Jointly Determine Pictorial Meaning 2021 Psychonomics Symposium: Beyond the Button Press: Studying the Mind Through Drawings, November 2021. Cognitive tools for learning and communication 2021 Configural Processing Consortium Keynote Talk, November 2021. Cognitive tools for learning and communication 2021 University of Edinburgh Computational Cognitive Science Seminar, October 2021. Cognitive technologies for visual communication 2021 CogSci 2021 Workshop: Symbolic and sub-symbolic systems in people and machines, July 2021. Drawing games as a window into concepts, communication, and collaboration. 2021 CogSci 2021 Workshop: Using games to understand intelligence, July 2021. Cognitive technologies for making the invisible visible 2021 Diverse Intelligences Summer Institute, July 2021. Relating visual production and recognition in human visual cortex. 2021 Wellcome Trust Centre for Neuroimaging, June 2021. Cognitive tools for making the invisible visible. 2021 Workshop on Sketch-Oriented Deep Learning, CVPR, June 2021. Cognitive tools for learning and communication. 2021 Nokia Bell Labs, February 2021. Cognitive tools for learning and communication. 2021 Department of Cognitive, Linguistic & Psychological Sciences, Brown University, February 2021. Cognitive tools for learning and communication. 2020 Institute for Cognitive Science, University of Michigan, December 2020. Cognitive tools for making the invisible visible. 2020 Department of Philosophy, University of Southern California, June 2020. Emergence of graphical communication protocols. 2020 Robotics: Science & Systems Workshop: Emergent Behaviors in Human-Robot Systems, July 2020. Cognitive tools for making the invisible visible. 2020 ICLR Workshop on Bridging AI and Cognitive Science, Addis Ababa, Ethiopia, April 2020. Cognitive tools for learning and communication. 2019 Design @ Large, UC San Diego, La Jolla, CA, May 2019. Cognitive tools for learning and communication. 2019 Halicioğlu Data Science Institute, UC San Diego, La Jolla, CA, January 2019. Cognitive tools for learning and communication. 2018 Hult International Business School, San Francisco, CA, April 2018. Drawing as a window into the mind. 2018 Netflix, Los Gatos, CA, April 2018. Cognitive tools for learning and communication. 2018 University of California Berkeley, Berkeley, CA, February 2018. Cognitive tools for learning and communication. 2018 University of California San Diego, La Jolla, CA, January 2018.

Cognitive tools for learning and communication. 2018 Indiana University, Bloomington, IN, January 2018. Drawing as a window into the mind. 2017 Rhode Island School of Design, Providence, RI, November 2017. Role of cognitive actions in learning. 2017 Annual Meeting of the Cognitive Science Society, London, UK, July 2017. Drawing as a window into the mind. 2016 Princeton University Art Museum, Princeton, NJ, October 2016. Drawing as cognitive technology. 2016 Drawing and the Brain Symposium, Indiana University Center for Art + Design, Bloomington, IN, April 2016. Drawing to learn: how visual production refines object representations. 2016 Indiana University in Bloomington, IN, April 2016. Drawing as a window into learning. 2015 Educational Testing Service, Princeton, NJ, October, 2015. Common object representations for visual recognition and production. 2015 University of British Columbia, Vancouver, BC, March, 2015. Drawing as a window into the mind. 2015 Smart Design, New York City, NY, March, 2015. Can ideas about food lead to real social change? 2013 Princeton Woodrow Wilson School Bernstein Gallery Art Exhibit on "Cooking for Change", Princeton, NJ, May 2013. Apégate a la causa! La gastronomía peruana como fenómeno social total. 2011 Faculty of Social Sciences, Pontificia Universidad Católica del Perú, Lima, Peru, July 2011. Selected Conference Presentations McCarthy W., Kirsh D., & Fan J. (2021). Exploring the role of prototyping in physical con-2021 struction. Poster to be presented at the Society for Philosophy and Psychology Annual Meeting. McCarthy W., Kirsh D., & Fan J. (2020). Learning to build physical structures better over 2020 time. Talk presented at the 42nd Annual Meeting of the Cognitive Science Society. McCarthy, W., and Fan, J. (2020). Rapid policy updating in human physical construction. 2020 Spotlight talk presented at the ICML Workshop on Object-Oriented Learning: Perception, Representation, and Reasoning. Wang, H., and Fan, J. (2020). Library learning for structured object concepts. Poster presented 2020 at the ICML Workshop on Object-Oriented Learning: Perception, Representation, and Reasoning.

Fan J. & Hawkins R. (2019). Visual content and social context jointly determine pictorial

with an artificial agent. Poster presented at the 2019 ACM SIGCHI Conference on Creativity

meaning. Poster presented at the *Society for Philosophy and Psychology Annual Meeting*. Fan J., Dinculescu M., & Ha D. (2019). collaboraw: an environment for collaborative sketching

2019

2019

and Cognition.

- Hawkins R.*, Sano, M.*, Goodman N., Fan J. (2019). Graphical convention formation during visual communication. Talk presented at the 41st Annual Meeting of the Cognitive Science Society. * equal contribution; Sayan Gul Travel Award
- Mukherjee K., Hawkins R., & Fan J. (2019). Communicating semantic part information in drawings. Poster presented at the 41st Annual Meeting of the Cognitive Science Society.
- Long B., Fan J., Chai R., & Frank M. (2019). Developmental changes in the ability to draw distinctive features of object categories. Talk presented at the 41st Annual Meeting of the Cognitive Science Society.
- Fan J., Hawkins R., Wu M., & Goodman, N. Modeling contextual flexibility in visual communication. Talk presented at the *Vision Sciences Society Annual Meeting in St. Pete's Beach, FL May 2018.*
- Long, B., Fan J., & Frank, M. Drawing as a window in the development of object category representations. Talk presented at the Cognitive Science Society Annual Meeting in Madison, WI July 2018.
- Long, B., Fan J., & Frank, M. Drawing as a window in the development of object category representations. Poster presented at the Vision Sciences Society Annual Meeting in St. Pete's Beach, FL May 2018.
- Wammes, J., Fan, J., Lee R., Gunn J., Yamins, D. Norman K., & Turk-Browne, N. Changing object representations during visual production training. Poster presented at the *Vision Sciences Society Annual Meeting in St. Pete's Beach, FL May 2018.*
- Fan J., Yamins D., & Norman, K., & Turk-Browne, N. Consequences of visual production on object representations. Dynamic poster presented at the Society for Neuroscience Annual Meeting in Washington, DC, November, 2017.
- Fan J., Yamins D., & Turk-Browne, N. Visual production induces categorical perception. Poster presented at the Vision Sciences Society Annual Meeting in St. Pete's Beach, FL May 2017.
- Fan J., Yamins D., & Turk-Browne, N. Dynamic visual feedback is sufficient to improve drawing. Poster presented at the Vision Sciences Society Annual Meeting in St. Pete's Beach, FL May 2016.
- Fan J., Yamins D., & Turk-Browne, N. Common object representations for visual recognition and production. Talk given at Cognitive Science Society Annual Meeting in Pasadena, CA July 2015. * Computational Modeling Paper Prize in Perception & Action
- Fan J., Yamins D., & Turk-Browne, N. How drawing alters object representations. Poster presented at the Vision Sciences Society Annual Meeting in St. Pete's Beach, FL May 2015.
- Fan J., Yamins D., DiCarlo, J., & Turk-Browne, N. Mapping core similarity among visual objects across image modalities. Poster presented at ACM SIGGRAPH 2014 in Vancouver, BC, Canada, August 2014.
- Fan J. & Turk-Browne, N. Feature distributions constrain object perception. Poster presented at the Vision Sciences Society Annual Meeting in St. Pete's Beach, FL, May 2014.
- Everaert, J., Fan, J., Koster, E., & Turk-Browne, N. Attentional capture from emotional associations in long-term memory. Poster presented at the Vision Sciences Society Annual Meeting in St. Pete's Beach, FL, May 2014.

Fan, J., Turk-Browne, N., & Taylor, J. Feedback-driven tuning of statistical summary representations. Talk given at the Annual Meeting on Object Perception, Attention, and Memory in Toronto, Ontario, Canada, November 2013. * Student Travel Award Fan, J., Hutchinson, J., & Turk-Browne, N. Incidental expression of visual long-term memory 2013 in online perception. Poster presented at the Annual Meeting of the Psychonomic Society in Toronto, Ontario, Canada, November 2013. Fan, J. and Turk-Browne, N. Visual long-term memory for objects biases perceptual attention. 2013 Poster presented at the Vision Sciences Society Annual Meeting in Naples, FL, May 2013. Fan, J. and Turk-Browne, N. Accessing visual memory distorts object representations. Talk 2012 given at the Vision Sciences Society Annual Meeting in Naples, FL, May 2012. Advising STUDENTS UC San Diego Graduate Students **Haoliang Wang** 2019 — Holly Huey (co-advised by Caren Walker) 2019 -Will McCarthy (co-advised by David Kirsh) 2019 -Sebastian Holt (co-advised by David Barner) 2019 -Tone Xu (co-advised by Steven Dow) 2020 -Felix Binder (co-advised by David Kirsh) 2020 -Cameron Holdaway (co-advised by Ed Vul) 2020 — Hannah Lloyd 2021 -Qualifying Exam Committee Lauren Oey 2020 Erik Brockbank 2020 Mohan Gupta 2021 Yang Wang 2021 Cameron Holdaway 2021 James Qi 2021 Dissertation Committee Elias Wang (Stanford, Electrical Engineering) 2022 Isabella DeStefano 2022 James Qi 2022 Erik Brockbank 2022 Aubrey Lau

2021

2021

Helen Wang

Selected Undergraduates

Justin Yang, Honors: Chancellor's Research Scholarship, HDSI Research Scholarship
 Xuanchen Lu, Honors: UCSD Psychology Research Perseverence During COVID Award

Julia Xu, Honors: HDSI Research Scholarship
 Sirui Tao, Honors: HDSI Research Scholarship

Zhe Huang, Honors: Triton Research & Experiential Learning Scholarships

Stanford

2020 —

Renata Chai (Master's, Stanford, 2018-19), Xin Yuan (Master's, Tsinghua University, 2018-19), Kushin Mukherjee (undergraduate, Vassar, 2018-19), Megumi Sano (undergraduate, Stanford, 2018-19), Karl Mulligan (undergraduate, Rutgers, 2017)

Princeton

Laura Herman (undergraduate, Princeton, 2015-16), Jessica Ji (undergraduate, Princeton, 2016), Jordan Gunn (undergraduate, Princeton, 2015), Rachel Klebanov (undergraduate, Princeton, 2015), Ryan O'Connell (undergraduate, Princeton, 2013-14), Annie Chen (undergraduate, Carnegie Mellon, 2013), Max Luo (undergraduate, University of Pennsylvania, 2012–2013)

APPOINTMENTS

2017-2018	Stanford Center for the Study of Language & Information, Mentor
2012-2016	Princeton Wilson College, Resident Graduate Advisor
2015-2016	Princeton Cognitive Science Program Graduate Student Fellow
2013-2014	Princeton Psychology Senior Thesis Writing Group Leader

Teaching

UC SAN DIEGO

Instructor-of-Record

2022	PSYC 193L: Science of Learning Data Science, Instructor
2021	PSYC 230: Computational Approaches to Visual Abstraction, Instructor
2021	PSYC 60: Introduction to Statistics, Instructor
2021	PSYC 230: Computational Approaches to Visual Abstraction, Instructor
2020	PSYC 193: Perception & Computation, Instructor
2020	PSYC 60: Introduction to Statistics, Instructor
2019	PSYC 272: Computational Approaches to Visual Abstraction, Instructor

Guest Lectures

PSYC 523b: Cognitive Psychology (Yale)

2021 PHIL 281: Non-Linguistic Representation (UCLA)

NEU 200C: Basic Neuroscience PSYC 111A: Research Methods

2020 COGS 200: Faculty Research Seminar

Professional Service

SERVICE TO THE UNIVERSITY AND BROADER COMMUNITY

2020 Marshall College Commencement Representative

2020- Pathways2AI Initiative, Co-Founder

2020- Psychology Undergraduate Research Assistant Common Application Initiative, Co-Chair

SERVICE TO THE FIELD

2022 Co-Organizer, CogSci Workshop: Images2Symbols: Drawing as as Window into the Mind

2022 Co-Organizer, CVPR Sketch Deep Learning Workshop

2022 Guest Editor, Memory & Cognition

2020-2022 Program Committee, Cognitive Science Society

2021 Program Committee, Conference on the Theory and Application of Diagrams

2021 Program Committee, ACM Creativity and Cognition

2020 Mentor, Científico Latino Graduate Student Mentorship Initiative

2020 Program Committee, NeurIPS Object Representations for Learning and Reasoning Workshop

2020 Program Committee, ICML Object-Oriented Learning Workshop

2020 Awards Committee, Cognitive Science Society

PANELIST OR AD HOC REVIEWER

Grants

NSF Integrative Strategies for Understanding Neural and Cognitive Systems (NCS)

NSF Perception, Action & Cognition

NSF Cognitive Neuroscience

Journals

Cognition

Cognitive Research: Principles and Implications

Cognitive Science

Developmental Science

Gastronomica

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human Perception and Performance

MIT Handbook of Attention PLoS Computational Biology

Proceedings of the National Academy of Sciences

Psychonomic Bulletin & Review

Psychological Review

Quarterly Journal of Experimental Psychology

Translational Issues in Psychological Science

Conferences

ACM Creativity and Cognition, ACM SIGGRAPH, Conference on the Theory and Application of Diagrams

AFFILIATIONS

Association for Computing Machinery (2019–), Cognitive Science Society (2015–), Association for Psychological Science (2014–), American Psychological Association (2011–), Vision Sciences Society (2010–), Society for Neuroscience (2008–), American Association for the Advancement of Science (2008–)

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