Bria Long, Ph.D.

Education & Professional Experience

2024 - present	*University of California, San Diego*	Assistant Professor Department of Psychology *PI:* Visual Learning Lab
2017 – 2024	*Stanford University*	Postdoctoral Fellow NSF SBE Fellow & NIH K99/R00 Awardee Advisor: Prof. Michael C. Frank *Parental leaves: 8-12/2019, 7–11/2021*
2017	*Harvard University*	Ph.D., Cognitive Psychology *Cognition, Brain, & Behavior* Advisors: Profs. George A. Alvarez, Talia Konkle, & Susan Carey
2011	*École Normale Supérieure*	M.S., Cognitive Science Advisor: Prof. Sid Kouider
2009 – 2010	*École Normale Supérieure*	Fulbright Scholar (France) Advisor: Prof. Emmanuel Dupoux
2009	*Stanford University*	B.A., Human Biology, Departmental Honors *Concentration: Language & Thought* Advisor: Prof. Lera Boroditsky

Fellowships, Grants, & Awards

2022 - 2027	National Institutes of Health K99/R00 Fellowship Recipient ($961,218). Role: PI *"Grounding models of category learning in the visual experiences of young children"*
2020	Stanford CSLI COVID-19 Bridge Grant ($41,000)
2019	Stanford Human-Centered Artificial Intelligence AWS Cloud Credits ($13,000)
2018	Travel Award, Conference on Computational Cognitive Neuroscience (CCN)
2018	Estes Rising Star Travel Award, *Workshop on "Deep, fast, and shallow learning in humans and machines"*
2017 – 2019	National Science Foundation SBE Postdoctoral Research Fellowship ($138,000) *"Interactions between word learning and visual category development in infancy"*
2016	George W. Goethals Teaching Award, Harvard University
2015	George W. Goethals Teaching Award, Harvard University
2014	Large Grant for Graduate Student Research ($3500), Harvard University
2013	Best Student Poster Award, Rovereto Concepts, Actions, and Objects Seminar
2012	Mind, Brain, and Behavior Travel Award, Harvard University
2011	Stimson Research Grant, Harvard University
2011	Honorable Mention, National Science Foundation Graduate Research Fellowship
2009	Fulbright Scholarship ($14,000), Franco-American Fulbright Commission
2009	Firestone Award for Undergraduate Excellence in Research, Stanford University

Mentored Grants

2026 – 2028 Huo Family Foundation Grant: "*Curating curiosity: Investigating the influence of conversational AI on children's learning in museum settings"* ($252,009). Role: Sponsor/Mentor (awarded to postdoctoral trainee AJ Haskins).

2025 – 2028 National Institutes of Health K00 Award: "*Characterizing individual differences in toddlers' information seeking during naturalistic play."* ($326,472). Role: Sponsor/Mentor (awarded to postdoctoral trainee AJ Haskins).

Papers

*† trainee or mentee under my supervision; * equal contribution*

Long, B., Ma, W. A., Tan, A. W. M., Silverman, R., Frank, M. C., & Yeatman, J. D. (in press). Developmental changes in the precision of children's representations of English noun meanings. *Psychological Science.*

Zhu, R., Arieda, J. O., Kilonzo, T. N., Watson, Z. D., Sepuri, T.†, **Long, B.,** Fan, J. E., & Frank, M. C. (in press). Developmental changes in children's production of line drawings in global contexts: Evidence from Kisumu, Kenya. *Developmental Science.* [doi]

Long, B.*, Sparks, R. Z.*, Xiang, V.*, Stojanov, S.*, Yin, Z., Keene, G. E., Nag, A., Zhuang, C., Marchman, V., Yamins, D.L.K., & Frank, M. C. (2025). The BabyView dataset: High-resolution egocentric videos of infants' and young children's everyday experiences. *Proceedings of Cognitive Computational Neuroscience 2025* (8 page track). *equal contributions [doi] [arXiv]

Long, B., Fan, J. E., Huey, H., Chai, Z.†, & Frank, M. C. (2024). Parallel developmental changes in children's production and recognition of line drawings of visual concepts. *Nature Communications*, *15*(1), 1191. [doi]

Long, B., Goodin, S., Kachergis, G., Marchman, V., Radwan, S., Sparks, R., Xiang, V., Zhuang, C., Hsu, O., Newman, B., Yamins, D.L.K., Frank M.C. (2024). The BabyView Camera: Designing a new head-mounted camera to capture children's early social and visual environments. *Behavior Research Methods, 56(4), 3523–3534.* [doi] [pdf] [repository]

Long, B., Wang, Y., Christie, S., Frank, M. C., & Fan, J.E. (2023). Developmental changes in drawing production under different memory demands in a U.S. and Chinese sample. *Developmental Psychology, 59(10), 1784–1793.* [doi] [pdf] [repository]

Long, B., Simson, J., Buxó-Lugo, A., Watson, D. G., & Mehr, S. A. (2023). How games can make behavioural science better. *Nature*, 613, 433-436. [doi] [pdf]

Long, B., Kachergis, G., Agrawal, K.†, & Frank, M. C. (2022). A longitudinal analysis of the social information in infants' naturalistic visual experience using automated detections. *Developmental Psychology. 58*(12), 2211–2229. [doi] [pdf] [repository]

Zettersten, M., Yurovsky, D., Xu, T. L., Uner, S., Tsui, A.S.T., Schneider, R. M., Saleh, A. N., Meylan, S. C., Marchman, V., Mankewitz, J., MacDonald, K., **Long, B**., Lewis, M., Kachergis, G., Handa, K., deMayo, B., Carstensen, A., Braginsky, M., Boyce, V., Bhatt, N.†, Bergey, C. A., & Frank, M.C. (2022). Peekbank: An open, large-scale repository for developmental eye-tracking data of children's word recognition. *Behavior Research Methods*. 55(5), 2485–2500. [doi] [pdf] [repository]

Long, B., Sanchez, A., Kraus, A. M., Agrawal, K.†, & Frank, M. C. (2022). Automated detections reveal the social information in the changing infant view. *Child Development, 93*(1), 101-116. [doi] [pdf] [repository]

Hardwicke, T.E., Bohn, M., MacDonald, K., Hembacher, E., Nuijten, M.B., Peloquin, B.N., deMayo, B.E**., Long, B.**, Yoon, E.J., Frank. M.C., (2021). Analytic reproducibility in articles receiving open data badges at Psychological Science: An observational study. *Royal Society Open Science, 8*(1), 201494. [doi] [pdf] [repository]

Long, B., Moher, M., Carey, S. E., & Konkle, T. (2019). Animacy and object size are reflected in perceptual similarity computations by the preschool years. *Visual Cognition*, *27*(5-8), 435-451. [doi] [pdf] [repository]

Long, B., Moher, M., Carey, S., & Konkle, T. (2019). Real-world size is automatically encoded in preschoolers' object representations. *Journal of Experimental Psychology: Human Perception and Performance*, *45(7),* 863–876. [doi] [pdf] [preprint] [repository]

Long, B., Yu, C.-P., & Konkle, T. (2018). Mid-level visual features underlie the high-level categorical organization of the ventral stream. *Proceedings of the National Academy of Sciences. 115*(38), E9015-E9024. [doi] [pdf] [repository]

Hardwicke, T. E., Mathur, M. B., MacDonald, K., Nilsonne, G., Banks, G. C., Kidwell, M. C., Mohr, A. H., Clayton, E., Yoon, E. J., Tessler, M. H., Lenne, R. L., Altman, S., **Long, B.,** Frank, M. C. (2018). Data availability, reusability, and analytic reproducibility: Evaluating the impact of a mandatory open data policy at the journal *Cognition*. *Royal Society Open Science*, *5*(8), 180448. [doi] [pdf] [repository]

Long, B. & Konkle, T. (2017). A familiar Size-Stroop effect in the absence of basic-level recognition. *Cognition. 168,* 234-242. [doi] [pdf] [repository]

Long, B., Störmer, V.S. & Alvarez, G.A. (2017). Mid-level perceptual features contain early cues to animacy. *Journal of Vision. 17*(6), 20. [doi] [pdf] [repository]

Long, B., Konkle, T., Cohen, M.A., & Alvarez, G.A. (2016). Mid-level perceptual features distinguish objects of different real-world sizes. *Journal of Experimental Psychology: General. 145*(1), 95-109. [doi] [pdf] [repository]

Kouider, S., **Long, B.**, Le Stanc, L., Barbosa, L.S., Fievet, A.C., & Gelskov, S. (2015). Neural dynamics of prediction and surprise in infants. *Nature Communications, 6, 8537.* [doi] [pdf]

Minagawa-Kawai Y., Cristia A., **Long B.**, Vendelin I., Hakuno Y., Dutat M., Filippin L, Cabrol D. & Dupoux E. (2013) Insights on NIRS sensitivity from a cross-linguistic study on the emergence of phonological grammar. *Frontiers in Psychology, 4, 170.* [doi] [pdf]

Fausey C.M, **Long B.L.**, Inamori, A. and Boroditsky L. (2010). Constructing agency: the role of language. *Frontiers in Psychology, 1, 162.* [doi] [pdf]

Preprints & Manuscripts Under Review

Frank, M. C., Tan, A. W. M., Aw, K. L., Sparks, R. Z., Moreno, V., Keene-Lee, G., Ryan, M. R., Sepuri, T.†, Yang, J.†, Marchman, V. A., Yamins, D. L. K., & **Long, B.** (2026). Scaling cross-situational word learning on children's naturalistic experiences. *arXiv.* [arXiv]

Yang, J.†, Sepuri, T.†, Tan, A. W. M., Aw, K. L., Frank, M. C., & **Long, B.** (2026). Characterizing the visual representation of objects from the child's view. *arXiv*. In revision, *Nature Human Behaviour*. [arXiv]

Tan, A. W. M.*, Yang, J.†*, Sepuri, T.†, Aw, K. L., Sparks, R. Z., Yin, Z., Marchman, V., Frank, M.C. & **Long, B.** (2025). Assessing the alignment between infants' visual and linguistic experience using multimodal language models. *arXiv Preprint*. [arXiv]

Peer-Reviewed Conference Proceedings

Simpson, D., De Gioia, M., **Long, B.,** & Brady, T. F. (2026). What makes a category memorable? Human conceptual diversity outpredicts perceptual similarity and deep neural networks. *Proceedings of the 9th Annual Conference on Cognitive Computational Neuroscience* (8 page track; contributed talk).

Yang, J.†, Sepuri, T.†, Tan, A. W. M., Aw, K. L., Frank, M. C., & **Long, B.** (2026). Variability in young children's everyday visual experiences of object categories. *9th Annual Conference on Cognitive Computational Neuroscience* (2 page track; Spotlight, top 10% of extended abstracts).

Du, H.†, Sepuri, T.†, Maheshwari, U., Zhu, R., Arieda, J. O., & **Long, B.** (2026). Structure and diversity in children's line drawings of object categories across four international contexts. *9th Annual Conference on Cognitive Computational Neuroscience* (2 page track). [pdf]

Zhu, R., Arieda, J. O., Kilonzo, T. N., Watson, Z. D., Sepuri, T.†, **Long, B.,** Fan, J. E., & Frank, M. C. (2026). Developmental changes in children's production of line drawings in a picture-sparse environment: Evidence from Kisumu, Kenya. *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 48). [pdf]

Tan, A. W. M., Aw, K. L., Sepuri, T.†, Sparks, R. Z., Yang, J.†, Marchman, V. A., **Long, B.,** & Frank, M. C. (2026). Predicting children's early word learning using egocentric videos of their learning environments. *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 48). [pdf]

Sepuri, T.†*, Aw, K. L.*, Tan, A. W. M.*, Sparks, R. Z., Marchman, V.A., Frank, M.C., **Long, B.** (2025) Characterizing young children's everyday activities using video question-answering models. *NeurIPS DBM Workshop.* [pdf]

Haskins, A. J.†, Sepuri, T.†, & **Long, B.** (2025). Knowledge differences affect gaze behavior during naturalistic object exploration. *Proceedings of Cognitive Computational Neuroscience Conference 2025*. [pdf]

Sepuri, T.†, Zettersten, M., & **Long, B.** (2025). Examining the precision of infants' visual concepts by leveraging vision-language models and automated gaze coding. *Proceedings of Cognitive Computational Neuroscience Conference 2025* (2 pg track) [pdf]

Yang, J.†, Sepuri, T.†, Tan, A., Frank, M. C., & **Long, B.** (2025). Quantifying infants' everyday experiences with objects in a large corpus of egocentric videos. *Proceedings of Cognitive Computational Neuroscience Conference 2025*. [pdf]

Sparks, R. Z**., Long, B**., Keene, G. E., Perez, M. J., Tan, A. W. M., Marchman, V. A., & Frank, M. C. (2024). Characterizing contextual variation in children's preschool language environment using naturalistic egocentric videos. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 46). [pdf]

Tan, A. W. M., Yu, S., **Long, B**., Ma, W. A., Murray, T., Silverman, R. D., Yeatman, J. D. & Frank, M. C. (2024). DevBench: A multimodal developmental benchmark for language learning. *Proceedings of Advances in Neural Information Processing Systems (NeurIPS).* [link]

Huey*, H., **Long*, B**., Yang, J., George, K., and Fan, J. (2022). Developmental changes in the semantic part structure of drawn objects. *Proceedings of the 44th Annual Meeting of the Cognitive Science Society. *equal contributions* [pdf] [repository]

Long, B., Kachergis, G., Bhatt, N.†, & Frank. M.C. (2021). Characterizing the object categories two children see and interact with in a dense dataset of naturalistic visual experience. *Proceedings of the 43nd Annual Conference of the Cognitive Science Society.* [pdf] [repository]

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.* [pdf] [repository]

Zettersten, M., Bergey, C. A., Bhatt, N.†, Boyce, V., Braginsky, M., Carstensen, A., deMayo, B., Kachergis, G., Lewis, M., **Long, B.,** MacDonald, K., Mankewitz, J., Meylan, S. C., Saleh, A. N., Schneider, R. M., Tsui, A., Uner, S., Xu, T. L., Yurovsky, D., & Frank, M.C. (2021). Peekbank: Exploring children's word recognition through an open, large-scale repository for developmental eye-tracking data. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.* [pdf] [repository]

Long, B., Kachergis, G., Agrawal, K.†, & Frank, M. C. (2020). Detecting social information in a dense database of infants' natural visual experience. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.* [pdf] [repository]

Deza, A., Chen, Y. C., **Long, B**., & Konkle, T. (2019). Accelerated Texforms: Alternative Methods for Generating Unrecognizable Object Images with Preserved Mid-Level Features. *Proceedings of the 2019 Conference on Computational Cognitive Neuroscience*. [pdf] [repository]

Long, B., Fan, J. E., Chai, Z.†, & Frank, M. C. (2019). Developmental changes in the ability to draw distinctive features of object categories. *Proceedings of the 41st Annual Conference of the Cognitive Science Society.* [pdf]

Long, B., Fan, J. E., Frank, M. C. (2018). Drawings as a window into developmental changes in object representations. *Proceedings of the 40th Annual Conference of the Cognitive Science Society.*

Sanchez*, A., **Long*, B.,** Kraus, A. M., Frank, M. C. (2018). Postural developments modulate children's visual access to social information. *Proceedings of the 40th Annual Conference of the Cognitive Science Society. *equal contributions* [pdf] [repository]

Long, B. & Konkle, T. (2018) The role of textural statistics vs. outer contours in deep CNN and neural responses to objects. *Proceedings of the 2018 Conference on Computational Cognitive Neuroscience*. [pdf] [repository]

Conference Presentations

Sepuri, T.†, Tan, A. W. M., Prystawski, B., **Long, B.,** & Zettersten, M. (2026). Investigating the role of similarity in word recognition using a large-scale developmental eye-tracking database. Poster presented at the 51st Boston University Conference on Language Development, Boston, MA.

Yang, J.†, Sepuri, T.†, Tan, A. W. M., Aw, K. L., Frank, M. C., & **Long, B.** (2026). Characterizing the inputs to infants' object category representations. Talk given at the annual meeting of the Vision Sciences Society, May 15-19, St. Pete Beach, FL.

Du, H.†, Sepuri, T.†, Zettersten, M., & **Long, B.** (2026). Children's integration of visual concepts via line drawings of hybrid categories. Poster presented at the biennial meeting of the Cognitive Development Society, Montreal, QC.

Sahrling, N.†, Haskins, A. J.†, Sepuri, T.†, Du, H.†, & **Long, B.** (2026). Relating changes in children's descriptions and line drawings of visual concepts across childhood. Poster presented at the biennial meeting of the Cognitive Development Society, Montreal, QC.

Sepuri, T.†, Zettersten, M., & **Long, B.** (2026). Examining the precision of infants' visual concepts by leveraging vision-language models and automated gaze coding. Poster presented at the biennial meeting of the Cognitive Development Society, Montreal, QC.

Long, B., Fan, J. E., Huey, H., & Frank, M. C. (2024). Individual variation in the part-structure of preschoolers' drawings of visual concepts. Poster given at the biennial meeting of the *Cognitive Development Society*, Pasadena, CA.

Long, B., Ma, W. A., Silverman, R., Yeatman, J., & Frank, M. C. (2024). Developmental changes in the precision of visual concept knowledge. Talk given at the annual meeting of the Vision Sciences Society, May 17-22, St. Pete Beach, FL.

Huey*, H., **Long*, B**., Yang, J., George, K., and Fan, J. (2022). Developmental changes in the semantic part structure of drawn objects. Poster given at the *44th Annual Meeting of the Cognitive Science Society.*

Long, B., Kachergis, G., Bhatt, N.†, & Frank. M.C. (2021). Characterizing the object categories two children see and interact with in a dense dataset of naturalistic visual experience. Talk given at the *43nd 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. Talk given at the *43rd Annual Meeting of the Cognitive Science Society.*

Long, B., Kachergis, G., Agrawal, K.†, & Frank, M. C. (2020). Detecting social information in a dense database of infants' natural visual experience. Talk given at the *42nd Annual Meeting of the Cognitive Science Society.*

Deza, A., Chen, Y. C., **Long, B**., & Konkle, T. (2019). Accelerated Texforms: Alternative Methods for Generating Unrecognizable Object Images with Preserved Mid-Level Features. Poster given at the *2019 Conference on Computational Cognitive Neuroscience*.

Magri, C., **Long, B.,** Chiou, R., & Konkle, T. (2019). Behavioral and neural associations between object size and curvature. Poster given at the annual meeting of the *Vision Sciences Society*, May 18-23, St. Petersburg, FL.

Long, B., Fan, J. E., Chai, Z.†, & Frank, M. C. (2019). Developmental changes in the ability to draw distinctive features of object categories. Poster given at the annual meeting of the *Vision Sciences Society*, May 18-23, St. Petersburg, FL.

Long, B., Fan, J. E., Chai, Z.†, & Frank, M. C. (2019). The role of memory in children's drawings of object categories. Talk given at the *Society for Research in Child Development*, March 18-22, Baltimore, MD.

Long, B. & Konkle, T. (2018) The role of textural statistics vs. outer contours in deep CNN and neural responses to objects. Poster given at the *2018 Conference on Computational Cognitive Neuroscience*, Sept 6-9, Philadelphia, PA.

Long, B., Fan, J.E., & Frank, M.C. (2018). Drawings as a window into developmental changes in object representations. Talk given at the annual meeting of the *Cognitive Science Society*, July 25-28, Madison, WI.

Long, B., Fan, J.E., & Frank, M.C. (2018). Drawings as a window into developmental changes in object representations. Poster given at the annual meeting of the *Vision Sciences Society*, May 18-23, St. Petersburg, FL.

Long, B. & Konkle T. (2017). Mid-level features are sufficient to drive the animacy and object size organization of the ventral stream. Talk given at the annual meeting of the *Vision Sciences Society*, May 19-24, St. Petersburg, FL.

Long, B. & Konkle T. (2016). Mid-level features are sufficient to drive the animacy and object size organization of the ventral stream. Talk given at the annual meeting of the *Society for Neuroscience*, San Diego, CA.

Long, B., Carey, S. & Konkle, T. (2016). Pre-verbal infants automatically activate real-world size representations. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.

Long, B., Konkle, T., Moher, M., Alvarez, G.A., & Carey, S. (2015). Young children automatically access the real-world size of objects. Poster presented at the *Cognitive Development Society Meeting*, Columbus, OH.

Long, B., Konkle, T & Alvarez, G.A. (2015). Mid-level features automatically activate real-world size representations. Talk given at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.

Alaoui-Socé, A.†, **Long, B.,** & Alvarez, G.A. (2015). Animate shape features influence high-level animate categorization. Poster given at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.

Long, B., Moher, M., Konkle, T., Alvarez, G.A. & Carey, S. (2015). Broad category membership guides visual attention in young children. Poster presented at the annual meeting of the *Budapest Conference on Cognitive Development,* Budapest, Hungary.

Long, B., Störmer, V.S., & Alvarez, G.A. (2014). Rapid extraction of category-specific shape statistics: Evidence from event-related potentials. Talk presented at the Annual Meeting of the *Vision Sciences Society*, St. Pete Beach, FL.

Long, B, Störmer, V.S., & Alvarez, G. A. (2014). Rapid extraction of category-specific shape statistics: Evidence from event-related potentials. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*, Boston, MA.

Long, B, Konkle, T., Cohen, M., & Alvarez, G. A. (2013). Real-world size influences visual search efficiency. Poster presented at the annual meeting of the *Concepts, Actions, and Objects Seminar*, Rovereto, Italy.

Long, B, & Alvarez, G.A. (2012). Implicit Processing of Labels Facilitates the Formation of Compressed Working Memory Representations. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.

Egorova, N., Cristià, A., Vendelin, I., Filippin, L., **Long, B.,** Gervain, J., Minagawa-Kawai, Y., & Dupoux, E. (2010). Neural correlates of dialect perception in early infancy. Presented at the *Acoustical Society of America* meeting held in Cancun, Mexico.

Fausey, C.M., **Long, B.L.**, & Boroditsky, L. (2009) The role of language in eye-witness memory: Remembering who did it in English and Japanese. Presented at the 30th Annual Meeting of the *Cognitive Science Society*, Amsterdam, Netherlands.

Invited Talks

Dec 2026 Constraints on theories of visual concept learning from children's everyday experiences
NeurIPS Developmental AI (DevAI) Workshop, Invited Speaker & Panelist ("Nature vs. Nurture in the Age of AI"), Atlanta, GA (scheduled)

Nov 2026 Constraints on theories of visual concept learning from children's everyday experiences
Society for Mathematical Psychology Satellite Meeting at Psychonomics, Invited Speaker, San Diego, CA

Nov 2026 Constraints on theories of visual concept learning from children's everyday experiences
Wold Behavioural Vision Seminar, Invited Speaker & Round Table, San Diego, CA

Aug 2026 Constraints on theories of visual concept learning from children's everyday experiences
Beyond Curated Datasets, CCN 2026 Satellite Workshop, Invited Speaker, New York, NY

Aug 2026 Panel: Growing Up in Science
Cognitive Computational Neuroscience (CCN) Conference, Invited Panelist, New York, NY

Mar 2026 Constraints on theories of visual concept learning from children's everyday experiences
Department of Psychology Colloquium, Princeton University

Dec 2025 The BabyView Dataset
NeurIPS Data on the Brain and Mind Workshop, Invited Speaker

Nov 2025 Towards ecologically grounded theories of visual concept learning
Department of Psychology Colloquium, Indiana University Bloomington

Aug 2025 From Child to Machine Learning and Back: Characterizing the inputs and outputs of visual concept learning
Computational Cognitive Neuroscience Workshop, Invited Speaker

Mar 2025 Towards ecologically grounded models of visual concept learning
Department of Psychology, Ebbinghaus Invited Speaker, University of Toronto

Mar 2025 Towards ecologically grounded models of visual concept learning
Department of Cognitive Science Colloquium, University of California, Irvine

Nov 2024	Towards ecologically grounded models of visual concept learning *Department of Psychology Colloquium, Annual Rosenblith Speaker, Occidental College*
Oct 2024	The BabyView Dataset: Characterizing everyday experience in early childhood *DARCLE (Daylong Audio Recordings of Children's Linguistic Environments), Invited Speaker*
Jun 2024	The data gap between humans and machines *Computer Vision & Pattern Recognition (CVPR) EgoVis Workshop*
Mar 2024	Constraints on visual concept learning *CDS Pre-Conference Workshop on AI and Cognitive Development*
Feb 2023	Learning to see *Department of Psychology Colloquium, University of California, San Diego*
Jan 2023	Learning to see *Department of Psychology Colloquium, University of Southern California*
Jul 2022	Parallel development of visual production and recognition *Image2Symbols: 2022 Cognitive Science Society Workshop, Invited Panelist*
Jun 2022	Parallel development of visual production and recognition *Computer Vision & Pattern Recognition (CVPR) Sketch-Oriented Deep Learning Workshop, Keynote Speaker*
Apr 2022	Learning to see *Department of Psychology Colloquium, Université de Montréal*
Mar 2022	Learning to see *Department of Psychology Colloquium, Yale University*
Feb 2022	Quantifying young children's visual environments *Social Cognition & Learning Lab, University of California, San Diego*
Apr 2021	Best practices for reproducible workflows *Cognition and Computation Lab, New York University*
Feb 2021	Learning to see *Department of Psychology Colloquium, University of California, Berkeley*
Dec 2020	Parallel development of visual production and recognition *Neural Information Processing Systems (NeurIPS) Workshop: Shared Visual Representations in Humans and Machines (SVRHM)*
Nov 2020	Developmental changes in infants' early visual experience *Concepts and Categories Seminar, New York University*
Oct 2020	Learning to see *Colloquium, CNRS Institut des Sciences Cognitives Marc Jeannerod (Lyon)*

Oct 2020 Learning to see
Colloquium, Department of Psychology, Central European University

May 2020 Quantifying the social information in the infant view
Vision & Perception Lab, Stanford University

Apr 2020 Quantifying the social information in the infant view
Developmental Psychology Brownbag Seminar, Stanford University

Jan 2019 The development of visual concepts
Colloquium, Department of Psychology, Johns Hopkins University

Oct 2018 Drawings as a window into developmental changes in object representations
Developmental Psychology Brownbag Seminar, University of California, Berkeley

May 2018 Drawings as a window into developmental changes in object representations
Developmental Psychology Brownbag Seminar, Stanford University

Jan 2018 Seeing without recognizing: mid-level features support cognitive and neural representations of object categories
Department of Psychology Friday Seminar Series, Stanford University

Dec 2017 Seeing without recognizing: mid-level features support cognitive and neural representations of object categories
Cognitive BrownBag, University of California, San Diego

Dec 2016 Mid-level features elicit cognitive and neural representations of object size
Laboratory for Developmental Studies Seminar, Harvard University

Oct 2015 Early-emerging representations of real-world object size
Developing Minds Laboratory, Boston University

Jun 2015 Real-world object size is automatically accessed in adults, children, and pre-verbal infants
Language and Cognition Laboratory, Stanford University

Sep 2014 Broad categories are distinguished by mid-level perceptual features
DiCarlo Lab, Massachusetts Institute of Technology

Apr 2014 Broad categories are distinguished by mid-level perceptual features
Cognition, Brain, & Behavior Seminar, Harvard University

Sep 2013 Real-world size guides attention during visual search
Visual Attention Laboratory, Harvard Medical School

Mentorship Experience

2024— Advisor to AJ Haskins and Ellie Breitfeld (postdoctoral fellows), Jane Yang and Haoyu Du (graduate students), Lynna Tran (lab coordinator), and Rochelle Boegeman (senior honors thesis student). Former: Tarun Sepuri (lab coordinator; now Ph.D. student at Stanford University) and Nicole Sahrling (senior honors thesis, 2026).

2026—	Ph.D. committee member for Dyllan Simpson and Xiyan (Angel) Li; qualifying exam committee member for Anna Cao.
1/2020–6/2021	Human Biology Honors Thesis Advisor (Isabella Duan) *Title: "Do labels change the specificity of category representations in infancy?"*
6/2020–6/2021	Honors Thesis Advisor & CSLI Summer Intern Supervisor (Naiti Bhatt) *Title: "Quantifying the object categories in the infant view"*
Summer 2019	Mentor, Symbolic Systems Summer Internship (Ketan Agrawal)
2018–2020	Master's Thesis Co-Advisor (Zixian Chai) *Title: "Automated assessment of children's tracing abilities"*
Summer 2018	CSLI Summer Intern Supervisor (Yi Feng)
2015–present	Mentor, Stanford Fulbright Mentoring Program *Provide advice and detailed feedback on research statements for undergraduates applying for Fulbright scholarships.*
2013–2015	Undergraduate Thesis for Abla Alaoui-Socé, co-advised by George A. Alvarez *Supervised and mentored the research that went into a successful honors thesis; this thesis won the Hoopes Prize at Harvard University.*
2015	Mentor, Laboratory for Developmental Studies Summer Internship (Helena Wippick) *Supervised a full-time summer intern on a project in infant cognitive development.*
2014	Mentor, Laboratory for Developmental Studies Internship (Ankita Sukthankar) *Supervised a full-time summer intern on a project in childhood cognitive development.*
2014	Mentor, Vision Sciences Laboratory Internship (Tatiana Hill) *Supervised a full-time summer intern on a project in adult visual cognition.*

Teaching Experience

Instructor — Topics in Psychology (193): Learning in Humans and Machines (Spring 2025, Spring 2026). Lead instructor for an undergraduate course at UCSD surveying current topics at the intersection of developmental psychology and machine learning while facilitating general writing skills. Developed all teaching materials from scratch, with a focus on helping undergraduates understand how to conduct their own literature reviews and facilitate critical thinking.

Instructor — An Open Science Approach to Experimental Psychology Methods (PSYC 201A; Fall 2024, Fall 2025, Fall 2026). Lead instructor for a graduate course at UCSD focusing on experimental methods, based off of https://experimentology.io/. Instructed students in the basics of experimental design, data collection, data analysis, and replication science, with a focus on building reusable skills for graduate school in experimental psychology and understanding where data comes from and what it can tell us.

Seminar Instructor — Designed and conducted a seminar course for sophomores entering the Psychology concentration at Harvard University. This seminar focused on teaching students how to think and write like psychological scientists. I constructed all course materials and led all sessions during each semester that I taught this course. I received teaching awards for the course I taught in both Fall 2015 and Spring 2016 which focused on cognitive neuroscience.

Spring 2016	Contemporary Issues in Cognitive Neuroscience
Fall 2015	Contemporary Issues in Cognitive Neuroscience
Spring 2015	Contemporary Issues in Cognitive Psychology

Teaching Fellow — Assisted with course design and implementation in successive iterations of the introductory psychology class at Harvard University.

Fall 2014	Introduction to Psychological Science with Prof. Jason Mitchell (2 sections)
Spring 2014	Introduction to Psychological Science with Prof. Jason Mitchell (3 sections)
Fall 2013	Introduction to Psychological Science with Prof. Dan Gilbert (3 sections)

Professional Service

Memberships in Professional Organizations:
Vision Sciences Society, Society for Research in Child Development, *Cognitive Development Society, Society for Neuroscience, Cognitive Neuroscience Society, Computational Cognitive Neuroscience*

Peer Review:
Nature Neuroscience, Proceedings of the National Academy of Sciences, Developmental Science, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Neuroimage, Journal of Vision, Proceedings B, Infant Behavior and Development, Developmental Psychology, PLOS ONE, Conference on Computational Cognitive Neuroscience, Cognitive Science Society, Nature Communications, Cognition, Open Mind, Quarterly Journal of Experimental Psychology

Conference Organization:
Co-organizer, "Beyond Curated Datasets," CCN 2026 satellite workshop on egocentric video and developmental vision (New York, NY, August 2026)

Departmental Service (UC San Diego Psychology):
Developmental area brown bag planning group (2026–); statistics session, first-year graduate student orientation (2026); colloquium speaker host (2026)