# Julián Jara-Ettinger

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## Education and Appointments

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|---|---|
| 2025–present | Associate Professor of Psychology, Yale University |
| 2021–present | Affiliated faculty, Wu Tsai Institute, Yale University |
| 2017–present | Affiliated faculty, Computer Science (by courtesy), Cognitive Science program, Education Studies program, Yale University |
| 2023–2025 | Associate Professor (on term) of Psychology, Yale University |
| 2017–2023 | Assistant Professor of Psychology, Yale University |
| 2016–2017 | Postdoctoral fellow, Language Pragmatics targeted project, Simons Center for the Social Brain, MIT |
| 2011–2016 | PhD in Brain and Cognitive Sciences, MIT |
| 2011 | Research scientist, UCSD |
| 2006–2011 | BS in Physics and Mathematics, Universidad Michoacana de San Nicolás de Hidalgo |

## Awards and Honors

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|---|---|
| 2024 | APS Fellow |
| 2024 | Wasow Visiting Scholar in Symbolic Systems, Stanford University |
| 2024 | Jacobs Foundation Early Career Research Fellow |
| 2023 | APS Spence Award for Transformative Early Career Contributions |
| 2021 | NSF CAREER award |
| 2021 | APS Rising Star |
| 2017 | Robert J. Glushko Prize for Outstanding Doctoral Dissertation |
| 2017 | SRCD Outstanding Doctoral Dissertation Award |
| 2015 | Glushko Student Travel Award, Cognitive Science Society |

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|---|---|
| 2013 | Angus MacDonald Award for Excellence in Undergraduate Teaching |
| 2012 | Cosyne Travel Award |
| 2011 & 2012 | Singleton Graduate Fellowship |
| 2007 & 2009 | Honorable Mention at ACM international collegiate programming contest, Mexico and Central America |

## Publications

All papers and additional preprints available at:

https://compdevlab.yale.edu/publications.html

* indicates joint first / joint senior authorship

### Journal publications and book chapters

[1] Wang, Z., Davis, I., & Jara-Ettinger, J., (2025). Modeling Other Minds: A Computational Account of Social Cognition and Its Development. *Annual Review of Developmental Psychology*. https://doi.org/10.1146/annurev-devpsych-111323-112016.

[2] Aboody, R., Zhou, C., & Jara-Ettinger, J. (2025). Children's understanding of how past experience shapes future expectations. *Child Development*. http://doi.org/10.1111/cdev.70032

[3] Edelman, J., Zhi-Xuan, T., Lowe, R., Klingefjord, O., Hain, E., Wang-Mascianica, V., Sarkar, A., et al., (2025). Full-Stack Alignment: Co-Aligning AI and Institutions with Thick Models of Value. https://www.full-stack-alignment.ai/

[4] Aboody, R., Davis, I., Dunham, Y., & Jara-Ettinger, J. (2025) People can infer the magnitude of others' knowledge even when they cannot infer its contents. *Cognition*. https://doi.org/10.1016/j.cognition.2025.106236.

[5] Asaba, M., Davis, I., Leonard, J., & Jara-Ettinger, J., (2025). Detecting social biases using mental state inference. *Journal of Personality and Social Psychology: Attitudes and Social Cognition*. https://doi.org/10.1037/pspa0000451.

[6] Aboody, R., Lu, J., Denison, S., & Jara-Ettinger, J., (2025). Six-year-olds, but not younger children, consider the probability of being right by chance when inferring others' knowledge. *Child Development*. https://doi.org/10.1111/cdev.14265.

[7] Davis, Z., Allen, K., Kleiman-Weiner, M., Jara-Ettinger, J., & Gerstenberg, T., (2025). Inference from social evaluation. *Journal of Personality and Social Psychology: Attitudes and Social Cognition*. https://doi.org/10.1037/pspa0000445.

[8] Tompkins R, Jara-Ettinger J, Schachner A. (2025). Societal inferences from the physical world. *Behavioral and Brain Sciences*. 2025;48:e73. doi:10.1017/S0140525X24001158

[9] Rubio-Fernandez, P., Berke, M., & Jara-Ettinger, J., (2025). Tracking Minds in Communication. *Trends in Cognitive Sciences*. 10.1016/j.tics.2024.11.005

[10] Asaba, M., Santos, M., Jara-Ettinger, J., & Leonard, J. (2025). Adolescents report being most motivated by encouragement from people who know their abilities and the domain. *Developmental Psychology*. https://doi.org/10.1037/dev0001920

[11] Ongchoco, J., Davis, I., Jara-Ettinger, J., & Paul, L. (2025). When new experience leads to new knowledge: A computational framework for formalizing epistemically transformative experiences. *Open Mind*. 8 1291–1311. doi: https://doi.org/10.1162/opmi_a_00168

[12] Mineault, P., Zanichelli, N., Peng, J. Z., Arkhipov, A., Bingham, E., Jara-Ettinger, J., ... & Tolias, A. (2024). NeuroAI for AI Safety. arXiv preprint arXiv:2411.18526.

[13] Jara-Ettinger, J., Baker, C., Ullman, T,. & Tenenbaum, J. Theory of Mind and Inverse Decision Making. In Griffiths, T.L., Chater, N, & Tenenbaum, J.B. (2024). *Bayesian models of cognition: Reverse-engineering the mind*. MIT Press.

[14] Jara-Ettinger, J. & Schachner, A. (2024). Traces of our past: the social representation of the physical world. *Current Directions in Psychological Science*.

[15] Ronderos, C., Aparicio, H., Long, M., Shukla, V., Jara-Ettinger, J. & Rubio-Fernandez, P. (2024). Perceptual, semantic and pragmatic factors affect the derivation of contrastive inferences. *Open Mind*.

[16] Jara-Ettinger, J., & Rubio-Fernandez, P. (2024). Demonstratives as attention tools: Evidence of mentalistic representations within language. *Proceedings of the National Academy of Sciences, 121(32)*, e2402068121.

[17] Zhang, F., Bloom, P., & Jara-Ettinger, J. (2024). People have systematically different ownership intuitions in seemingly simple cases. *Psychological Science*, 09567976241240424.

[18] Goel, S., Jara-Ettinger, J., Ong, D.C. & Gendron, M. (2024) Face and context integration in emotion inference is limited and variable across categories and individuals. *Nature Communications*, 15, 2443. https://doi.org/10.1038/s41467-024-46670-5.

[19] Berke, M., & Jara-Ettinger, J. (2024). Core knowledge, visual illusions, and the discovery of the self. Commentary to Spelke's *What Babies Know. Behavioral and Brain Sciences* 1–2. doi:10.1017/S0140525X23003205.

[20] Ongchoco, J., Knobe, J., & Jara-Ettinger, J. (2024). People's thinking plans adapt to the problem they are trying to solve. *Cognition*, 243, 105669.

[21] Davis, I., Carlson, R., & Dunham, Y., & Jara-Ettinger, J. (2023). Identifying social partners through indirect prosociality: a computational account. *Cognition,* 240, 105580.

[22] O'Shaughnessy, D., Cruz Cordero, T., Mollica, F., Boni, I., Jara-Ettinger, J., Gibson, E., & Piantadosi, S.T. (2023). Diverse mathematical knowledge among indigenous Amazonians. *Proceedings of the National Academy of Sciences,* 120(35), e2215999120.

[23] Lopez-Brau, M., & Jara-Ettinger, J. (2023). People can use the placement of objects to infer communicative goals. *Cognition*, 239, 105524.

[24] Aboody, R., Velez-Ginorio, J., Santos, L., & Jara-Ettinger, J. (2023). When naïve pedagogy breaks down: Adults rationally decide how to teach, but misrepresent

learners' beliefs. *Cognitive Science*, 47(3), e13257.

[25] Royka, A., Chen, A., Aboody, R., Huanca, T., & Jara-Ettinger, J. (2022). People infer communicative action through an expectation for efficient communication. *Nature Communications*, 13, 4160. https://doi.org/10.1038/s41467-022-31716-3.

[26] Boni, I., Jara-Ettinger, J., Sackstein, S., & Piantadosi, S.T. (2022). Verbal counting and the timing of number acquisition in an indigenous Amazonian group. *PLOS One, 17(8)*, e0270739.

[27] Aboody, R., Huey, H., & Jara-Ettinger, J. (2022). Preschoolers decide who is knowledgeable, who to inform, and who to trust via a causal understanding of how knowledge relates to action. *Cognition*, 228, 105212.

[28] Lopez-Brau, M., Kwon, J., & Jara-Ettinger, J. (2022). Social inferences from physical evidence via Bayesian event reconstruction. *Journal of Experimental Psychology: General, 151(9),* 2029–2042. https://doi.org/10.1037/xge0001182.

[29] Berke, M., Walter, R., Jara-Ettinger, J., & Scholl, B. (2022). Flexible Goals Require that Inflexible Perceptual Systems Produce Veridical Representations: Implications for Realism as Revealed by Evolutionary Simulations. *Cognitive Science. 46*(10), e13195.

[30] Jacobs, C., Flowers, M., Aboody, R., Maier, M., & Jara-Ettinger, J. (2022). Not just what you did, but how: Children see distributors that count as more fair than distributors who don't. *Cognition*, 225, 105128.

[31] Jara-Ettinger, J., Levy, R., Sakel, J., Huanca, T., & Gibson, E. (2022). The origins of the shape bias: Evidence from the Tsimane'. *Journal of Experimental Psychology: General, 151(10)*, 2437–2447.

[32] Chang, S., Jara-Ettinger, J.*, & Baskin-Sommers, A.* (2022). Resource scarcity compromises explore-exploit decision-making. *Journal of Experimental Social Psychology*, 98, 104254.

[33] Jara-Ettinger, J., & Rubio-Fernandez, P. (2021). The social basis of referential communication: Speakers construct reference based on listeners' expected visual search. *Psychological Review, 129(6)*, 1394.

[34] Jara-Ettinger, J., & Rubio-Fernandez, P. (2021). Quantitative mental-state attributions from linguistic events. *Science Advances*, 7(47), eabj0970.

[35] Royka, A., & Jara-Ettinger, J., (2021). Ignorance matters. Commentary to Phillips et al. *Behavioral and Brain Sciences*, 44 doi:http://dx.doi.org/10.1017/S0140525X20001636.

[36] Jacobs, C., Flowers, M., & Jara-Ettinger, J. (2021). Children's understanding of the abstract logic of counting. *Cognition*, 214, 104790.

[37] Aboody, R., Zhou, C., & Jara-Ettinger, J (2021). In pursuit of knowledge: Preschoolers expect agents to weigh information gain and information's cost when deciding whether to explore. *Child Development*, 92(5):1919-1931.

[38] Rubio-Fernandez, P., Mollica, F., & Jara-Ettinger, J. (2020). Speakers and listeners exploit word order for communicative efficiency: A cross-linguistic investigation. *Journal of Experimental Psychology: General*, 150(3), 583–594.

[39] Sheskin, M., Scott, K., Mills, C., Bergelson, E., Bonawitz, E., Spelke, E., Li, F., Keil, F., Gweon, H., Tenenbaum, J. B., Jara-Ettinger, J., Adolph, K., Rhodes, M., Frank, M., Mehr, S., & Schulz, L. (2020). Online developmental science to foster innovation, access, and impact. *Trends in Cognitive Sciences*, 24(9) 675-678.

[40] Jara-Ettinger, J., Schulz, L.E., & Tenenbaum, J.B. (2020). The Naive Utility Calculus as a unified quantitative framework for action understanding. *Cognitive Psychology*, 123(2020) 101334.

[41] Rubio-Fernandez, P., & Jara-Ettinger, J. (2020). Incrementality and efficiency shape pragmatics across languages. *Proceedings of the National Academy of Sciences*, 117(24) 13399-13404.

[42] Conway, B., Ratnasingma, S., Jara-Ettinger, J., Futrell, R., & Gibson, E. (2019). Communication efficiency of color naming across languages provides a new framework for the evolution of color terms. *Cognition*, 195, 104086.

[43] Bear, A., Bensinger, S., Jara-Ettinger, J., Knobe, J. & Cushman, F. (2019). What comes to mind? *Cognition*, 194, 104057.

[44] Bridgers, S., Jara-Ettinger, J., & Gweon, H. (2019). Young children consider the expected utility of others' learning to decide what to teach. *Nature Human Behaviour*, 4(2), 144-152.

[45] Jara-Ettinger, J., Floyd, S., Huey, H., & Tenenbaum, J.B. (2019). Social pragmatics: preschoolers rely on commonsense psychology to resolve referential underspecification. *Child Development*, 91(4), 1135-1149.

[46] Jara-Ettinger, J. (2019). Theory of Mind as Inverse Reinforcement Learning. *Current Opinion in Behavioral Sciences*, 29, 105-110.

[47] Jara-Ettinger, J.*, Sun. F.*, Schulz, L.E., & Tenenbaum, J.B. (2018). Sensitivity to the sampling process emerges from the principle of efficiency. *Cognitive Science*, 42, 270-286.

[48] Gibson, E., Jara-Ettinger, J., Levy, R., & Piantadosi, S.T. (2018). The Use of a Computer Display Exaggerates the Connection Between Education and Approximate Number Ability in Remote Populations. *Open Mind*, 2(1), 37-46.

[49] Gibson, E., Futrell, R., Jara-Ettinger, J., Mahowald, K., Bergen, L., Sivalogeswaran, R., Gibson, M., Piantadosi, S.T., & Conway, B. (2017). Color naming across languages reflects color use. *Proceedings of the National Academy of Sciences*, 114(40), 10785-10790.

[50] Jara-Ettinger, J.*, Floyd, S.*, Tenenbaum, J.B., & Schulz, L.E. (2017). Children believe that agents maximize expected utilities. *Journal of Experimental Psychology: General*, 146(11), 1574.

[51] Rubio-Fernandez, P., Jara-Ettinger, J., & Gibson, E. (2017). Can processing demands explain toddlers' performance in false-belief tasks? Response to Setoh et al. *Proceedings of the National Academy of Sciences*, 114(19), E3750-E3750.

[52] Baker, C.L., Jara-Ettinger, J., Saxe, R., & Tenenbaum, J.B. (2017). Rational quantitative attribution of beliefs, desires, and percepts in human mentalizing. *Nature*

*Human Behaviour*, 1(4), 1-10.

[53] Ferrigno, S., Jara-Ettinger, J., Piantadosi, S.T., & Cantlon, J. (2017). Universal and uniquely human factors in spontaneous number perception. *Nature Communications*, 8(1), 1-10.

[54] Jara-Ettinger, J., Gweon, H., Schulz, L.E., & Tenenbaum, J.B. (2016). The naïve utility calculus: computational principles underlying social cognition. *Trends in Cognitive Sciences*, 20(8), 589-604.

[55] Jara-Ettinger, J., Piantadosi, S.T., Spelke, E., Levy, R., & Gibson, E. (2016). Mastery of the natural numbers is not the result of mastery of counting: Evidence from late counters. *Developmental Science*, 20(6), e12459.

[56] Jara-Ettinger, J., Gweon, H., Tenenbaum, J.B., & Schulz, L.E. (2015). Children's understanding of the costs and rewards underlying rational action. *Cognition*, 140, 14-23.

[57] Jara-Ettinger, J., Gibson, E., Kidd, C., & Piantadosi, S.T. (2015). Native Amazonian children forego egalitarianism in merit-based tasks when they learn to count. *Developmental Science*, 19(6), 1104-1110.

[58] Jara-Ettinger, J., Tenenbaum, J.B., & Schulz, L.E. (2015). Not so innocent: Toddlers' inferences about costs and culpability. *Psychological Science*, 26(5), 633-640.

[59] Piantadosi, S.T., Jara-Ettinger, J., & Gibson, E. (2014). Children's learning of number words in an indigenous farming-foraging group. *Developmental Science*, 17(4), 553-365.

[60] Rodrigues, E., Achcar, J., & Jara-Ettinger, J. (2011). Using a Gibbs Sampling Algorithm and a Non-homogeneous Poisson Model to Estimate the Occurrence of Ozone Exceedances in Mexico City. *Air Quality - Model and Applications.*

### Refereed conference proceeding papers[1]

[61] Suwal, U., Morris, B., Lin, Q., Rubio-Fernandez, P., & Jara-Ettinger, J., (2025). Speakers strategically adjust their descriptions based on perceived memorability. *Proceedings of the 47th Annual Meeting of the Cognitive Science Society.*

[62] Muchovej, J., Royka, A., Lee, S., & Jara-Ettinger, J. (2025). Large Language Models Lack Core Features of Theory of Mind: Evidence from GPT-4o. *Proc. of Int. Workshop on Advancing AI Through Theory of Mind. AAAI.*

[63] Baker, A., Sharma, K., Dunham, Y., & Jara-Ettinger, J., (2025). People use hybrid strategies to make efficient but structured inferences about agents in roles. *Proceedings of the 47th Annual Meeting of the Cognitive Science Society.*

[64] Berke, M., Sterling, B., Chandra, K., & Jara-Ettinger, J., (2025). People use theory of mind to craft lies exploiting audience desires. *Proceedings of the 47th Annual Meeting of the Cognitive Science Society.*

[1] All Cognitive Science Society papers in this list were accepted as full conference publications. In some cases, we uploaded only the abstract to the proceedings and posted the full paper on PsyArXiv instead, due to some journals recently desk-rejecting work published in CogSci proceedings.

[65] Wang, Z., & Jara-Ettinger, J., (2025). When Seating Matters: Modeling Graded Social Attitudes as Bayesian Inference. *Proceedings of the 47th Annual Meeting of the Cognitive Science Society.*

[66] Zhang, R., Berke, M., & Jara-Ettinger, J., (2025). Six-Year-Olds Use an Intuitive Theory of Attention to Infer What Others See, Whom to Trust, and What They Want. *Proceedings of the 47th Annual Meeting of the Cognitive Science Society.*

[67] Berke, M., Azerbayev, Z., Belledonne, M., Tavares, Z., & Jara-Ettinger, J., (2024). MetaCOG: A Hierarchical Probabilistic Model for Learning Meta-Cognitive Visual Representations. *Conference on Uncertainty in Artificial Intelligence.*

[68] Baker, A., Dunham, Y., & Jara-Ettinger, J., (2024) Roles guide rapid inferences about agent knowledge and behavior. *Proceedings of the 46th Annual Meeting of the Cognitive Science Society.*

[69] Briscoe, M., Zhan, R., & Jara-Ettinger, J., (2024). Children's Expectations About Epistemic Change. *Proceedings of the 46th Annual Meeting of the Cognitive Science Society.*

[70] Berke, M., Sterling, B., Tenenbaum, A., & Jara-Ettinger, J. (2024) No signatures of first-person biases in Theory of Mind judgments about thinking. *Proceedings of the 46th Annual Meeting of the Cognitive Science Society.*

[71] Tan, Z. Y., Jara-Ettinger, J., & Berke, M. (2024) Reasoning about knowledge in lie production. *Proceedings of the 46th Annual Meeting of the Cognitive Science Society.*

[72] Berke M., & Tenenbaum, A., & Sterling, B., & Jara-Ettinger, J., (2023). Thinking about Thinking as Rational Computation. *Proceedings of the 45th Annual Conference of the Cognitive Science Society.*

[73] Royka, A., & Török, G., & Jara-Ettinger, J., (2023). Guiding Inference: Signaling intentions using efficient action. *Proceedings of the 45th Annual Conference of the Cognitive Science Society.*

[74] Asaba, M., & Davis, I., & Leonard, J., & Jara-Ettinger, J., (2023). Detecting social biases using mental state inference. *Proceedings of the 45th Annual Conference of the Cognitive Science Society.*

[75] Chuey, A., & Jara-Ettinger, J., & Gweon, H., (2023). Violation of epistemic expectations: Children monitor what others know and recognize unexpected sources of knowledge. *Proceedings of the 45th Annual Conference of the Cognitive Science Society.*

[76] Davis. I., & Jara-Ettinger, J., (2022). Hierarchical task knowledge constrains and simplifies action understanding. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

[77] Davis, I., Jara-Ettinger, J., & Dunham, Y., (2022). Inferring the internal structure of social collectives. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

[78] Goel, S., Jara-Ettinger, J., & Gendron, M., (2022). Modeling Cue-integration in Emotion Inferences. *Proceedings of the 44th Annual Conference of the Cognitive*

*Science Society.*

[79] Berke, M., & Jara-Ettinger, J., (2022). Integrating experience into Bayesian Theory of Mind. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

[80] Asaba, M., Santos, M., Jara-Ettinger, J., & Leonard, J., (2022). Adolescents are most motivated by encouragement from someone who knows their abilities and the domain. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

[81] Woensdregt, M., Jara-Ettinger, J., & Rubio-Fernandez, P., (2022). Language universals rely on social cognition: Computational models of the use of *this* and *that* to redirect the receiver's attention. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

[82] Berke, M., & Jara-Ettinger, J., (2021). Thinking about thinking through inverse reasoning. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.*

[83] Davis, I., Carlson, R., Dunham, Y., & Jara-Ettinger, J., (2021). Reasoning about social attitudes with uncertain beliefs. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.*

[84] Aboody, A., Denison, S., & Jara-Ettinger, J., (2021). Children consider the probability of random success when evaluating knowledge. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.*

[85] Aboody, R., Davis, I., Dunham, Y., & Jara-Ettinger, J., (2021). I can tell you know a lot, although I'm not sure what: Modeling broad epistemic inference from minimal action. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.*

[86] Royka, A., Schouwstra, S., Kirby, S., & Jara-Ettinger, J., (2021). I Know You Know I'm Signaling: Novel gestures are design to guide observers' inferences about communicative goals. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.*

[87] Jacobs, C., Lopez-Brau, M., & Jara-Ettinger, J., (2021). What happened here? Children integrate physical reasoning to infer actions from indirect evidence. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society.*

[88] Berke, M., Belledonne, M., & Jara-Ettinger, J., (2020). Learning a Metacognition for Object Perception. *NeurIPS SVRHM workshop.*

[89] Ongchoco, J., & Jara-Ettinger, J., (2020). Beyond rationality: We infer other people's goals by learning agent-variable expectations of efficient action. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.*

[90] Lopez-Brau, M., Kwon, J., & Jara-Ettinger, J., (2020). Mental state inference from indirect evidence through Bayesian event reconstruction. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.*

[91] Burger, L., & Jara-Ettinger, J., (2020). Mental inference: Mind perception as Bayesian model selection. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.*

[92] Pelz, M., Schulz, L., & Jara-Ettinger, J., (2020). The Signature of All Things: Children Infer Knowledge States from Static Images. *Proceedings of the 42nd Annual*

*Conference of the Cognitive Science Society.*

[93] Aboody, R., Flowers, M., Zhou, C., & Jara-Ettinger, J (2019). Ignorance = doing what is reasonable: Children expect ignorant agents to act based on prior knowledge. *Proceedings of the* $41^{st}$ *Annual Conference of the Cognitive Science Society.*

[94] Aboody, R., Zhou, C., & Jara-Ettinger, J (2019). The price of knowledge: Children infer epistemic states and desires from exploration's cost. *Proceedings of the* $41^{st}$ *Annual Conference of the Cognitive Science Society.*

[95] Ongchoco, J., Jara-Ettinger, J., & Knobe, J. (2019). Imagining the good: An offline tendency to simulate good options even when no decision has to be made. *Proceedings of the* $41^{st}$ *Annual Conference of the Cognitive Science Society.*

[96] Flowers, M., Stoner, L., & Jara-Ettinger, J. (2019). Children master the cardinal significance of one-to-one correspondence after they learn to count. *Proceedings of the* $41^{st}$ *Annual Conference of the Cognitive Science Society.*

[97] Royka, A., Aboody, R., & Jara-Ettinger, J. (2018). Movement as a message: inferring communicative intent from action. *Proceedings of the* $40^{th}$ *Annual Conference of the Cognitive Science Society.*

[98] Flowers, M., Aboody, R., & Jara-Ettinger, J. (2018). Beyond principles: Children determine fairness based on attention and exactness. *Proceedings of the* $40^{th}$ *Annual Conference of the Cognitive Science Society.*

[99] Rubio-Fernandez, P., & Jara-Ettinger, J. (2018). Joint inferences of speakers' knowledge and referents based on how they speak. *Proceedings of the* $40^{th}$ *Annual Conference of the Cognitive Science Society.*

[100] Bear, A., Bensinger, S., Jara-Ettinger, J., & Knobe, J. (2018). What comes to mind? A mix of what's likely and what's good. *Proceedings of the* $40^{th}$ *Annual Conference of the Cognitive Science Society.*

[101] Aboody, R., Velez-Ginorio, J., Santos, L., & Jara-Ettinger, J. (2018). When teaching breaks down: Teachers rationally select what information to share, but misrepresent learners' hypothesis spaces. *Proceedings of the* $40^{th}$ *Annual Conference of the Cognitive Science Society.*

[102] Aboody, R., Huey, H., & Jara-Ettinger, J. (2018). Success does not imply knowledge: Preschoolers believe that accurate predictions reveal prior knowledge, but accurate observations do not. *Proceedings of the* $40^{th}$ *Annual Conference of the Cognitive Science Society.*

[103] Jara-Ettinger, J., & Gweon, H. (2017). Minimal covariation data support future one-shot inferences about unobservable properties of novel agents. *Proceedings of the* $39^{th}$ *Annual Conference of the Cognitive Science Society.*

[104] Velez-Ginorio, J., Siegel, M., Tenenbaum, J.B., & Jara-Ettinger, J. (2017). Interpreting actions by attributing compositional desires. *Proceedings of the* $39^{th}$ *Annual Conference of the Cognitive Science Society.*

[105] Jara-Ettinger*, J., Sun*, F., Schulz, L.E., & Tenenbaum, J.B. (2016). The naïve utility calculus unifies statistical and spatial routes to preference. *Proceedings of the*

$38^{th}$ *Annual Conference of the Cognitive Science Society.*

[106] Bridgers, S., Jara-Ettinger, J., & Gweon, H. (2016). Children consider others' expected costs and rewards when deciding what to teach. *Proceedings of the* $38^{th}$ *Annual Conference of the Cognitive Science Society.*

[107] Jara-Ettinger, J., Lydic, E., Tenenbaum, J.B. & Schulz, L.E. (2015). Beliefs about desires: Children's understanding of how knowledge and preference influence choice. *Proceedings of the* $37^{th}$ *Annual Conference of the Cognitive Science Society.*

[108] Jara-Ettinger, J., Schulz, L.E., & Tenenbaum, J.B. (2015). The naïve utility calculus: Joint inferences about the costs and rewards of actions. *Proceedings of the* $37^{th}$ *Annual Conference of the Cognitive Science Society.*

[109] Allen, K., Jara-Ettinger, J., Gerstenberg, T., Kleiman-Weiner, M., & Tenenbaum, J.B. (2015). Go fishing! Responsibility judgments when cooperation breaks down. *Proceedings of the* $37^{th}$ *Annual Conference of the Cognitive Science Society.*

[110] Jara-Ettinger*, J., Kim*, N., Muentener, P., & Schulz, L.E. (2014). Running to do evil: Costs incurred by perpetrators affect moral judgment. *Proceedings of the* $36^{th}$ *Annual Conference of the Cognitive Science Society.*

[111] Jara-Ettinger, J., Gweon, H., Tenenbaum, J.B., & Schulz, L.E. (2014). I'd do anything for a cookie (but I won't do that): Children's understanding of the costs and rewards underlying rational action. *Proceedings of the* $36^{th}$ *Annual Conference of the Cognitive Science Society.*

[112] Jara-Ettinger, J., Tenenbaum, J.B., & Schulz, L.E. (2013). Not so innocent: Reasoning about costs, competence, and culpability in very early childhood. *Proceedings of the* $35^{th}$ *Annual Conference of the Cognitive Science Society.*

[113] Jara-Ettinger, J., Baker, C.L., & Tenenbaum, J.B., (2012). Learning what is where from social observations. *Proceedings of the* $34^{th}$ *Annual Conference of the Cognitive Science Society.*

## Invited talks

▷ indicates colloquium

◇ indicates keynote talks

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|---|---|
| 2025 | Department of Psychology, University of Toronto |
| | "What is Intelligence?" workshop, Santa Fe Institute |
| | Department of Psychology and Human Development, Vanderbilt |
| | Ranch Metaphysics, Tucson |
| 2024 | Department of Psychology, Harvard |
| | Brain and Cognitive Sciences Department, MIT |
| | Dynamics Between Minds invited symposium, Cogsci meeting, Rotterdam |

Bielefeld University, Germany

The New York Philosophy of Language Workshop, NYU

Department of Psychology, Stanford

▷ Department of Psychology, Berkeley

2023 Department of Psychology, Salzburg

Gyorgy Festschrift, CEU

Neurospin, Paris

ISC Marc Jeannerod, Lyon

Concepts and Categories talk series, NYU

▷ Max Planck Institute for Evolutionary Anthropology, Leipzig

Department of Psychology, University of Potsdam

◇ Crossing the borders: interplay of language, cognition, and the brain in early human development, Potsdam

◇ COSMOS summer school, University of Konstanz

▷ Center for Cognitive Science, TU Darmstadt

▷ Cognitive Science Program, Princeton

2022 ▷ Social curiosity workshop, University of Göttingen

◇ "Social Intelligence in Humans and Robots", RSS workshop

◇ "Theory-Theory turns 30-something", CDS pre-conference

▷ Center for Cognitive Neuroscience, Duke University

The Communicative Mind Workshop, University of Warwick

Department of Psychology & Neuroscience (developmental brownbag), Duke

2021 ▷ Department of Brain and Cognitive Sciences, MIT

▷ Computation and Society Initiative, Yale

Department of Psychology, Columbia

Mind, Technology, and Society talk series, UC Merced

Department of Psychology, Boston College

2020 Centre for Language Evolution, University of Edinburgh

▷ Cognitive Science Program, Northwestern University

Computational Approaches to Social Cognition Talk Series, Harvard

Department of Psychological and Brain Sciences, Dartmouth

2019 Department of Psychology, UMass Amherst

| | |
|---|---|
| | Developmental Brown Bag, Brown University |
| | CBMM summer school, Woods Hole |
| | Brain Computation and Learning Workshop, IISc Bangalore |
| | ⋄ DUCOG, Dubrovnik |
| | AI, Ethics, and Society Workshop, Yale |
| 2018 | Number cognition workshop, UC Berkeley |
| | Psychology department, NYU |
| | CBMM education workshop, Wellesley College |
| | Simons Center for the Social Brain, MIT |
| | Social Psychology speaker series, Harvard |
| 2017 | Department of philosophical investigations, UNAM |
| | ▷ Department of Cognitive Science, Central European University |
| | Glushko dissertation awards symposium, Cognitive Science Society meeting |
| | Searching for cognitive universals, CUNY workshop |
| | Evolutionary psychology group meeting, Harvard |
| | Psychology and Economics group, Harvard |
| | Linguistics department, Yale |
| | Department of Anthropology, Yale |
| 2016 | CBMM symposium, ABRCMS |
| | Department of Psychology, Columbia |
| | Department of Psychology, University of Michigan |
| 2015 | Department of psychological & brain sciences, Johns Hopkins University |
| | Psychology department, Yale |
| | Department of Psychology, University of Chicago |
| | Language and cognition seminar, Harvard |
| 2014 | Child Cognition group meeting, Boston University |
| | Department of Brain & Cognitive Sciences, University of Rochester |
| 2013 | Conexiones: charlas intercampus, Tufts |
| | Boston Area Morality group meeting, Boston University |

## Supervision

### Graduate student supervision

| | |
|---|---|
| 2024-present | Zihan Wang |
| 2022-present | Aaron Baker |
| 2022-present | John Muchovej |
| 2020-present | Amanda Royka |
| 2019-2025 | Marlene Berke |
| 2017-2023 | Michael Lopez-Brau |
| 2016-2022 | Rosie Aboody |

### Post-doctoral fellow supervision

| | |
|---|---|
| 2024-present | Ben Morris |
| 2021-2024 | Mika Asaba (co-mentored with Julia Leonard) |
| 2020-2023 | Isaac Davis (co-mentored with Yarrow Dunham) |
| 2021-2023 | Daniel Horschler (co-mentored with Laurie Santos) |
| 2021-2022 | Marieke Woensdregt (co-mentored with Paula Rubio-Fernandez) |

**Graduate dissertation committees:** Pinar Aldan (2025), Nicholas Strudel (2025), Sristhi Goel (2025), Flora Zhang (2025), Madeline Reinecke (2023), Jake Brawer (2023; CS), Emory Richardson (2023), Ryan Carlson (2023), Michelle Worthington (2023), Joan Ongchoco (2022), Sami Yousif (2022), Lena Skalaban (2022), Viola Mocz (2022), Nicole Salomons (2022; CS), Alyssa Arre (2021), Alexander Noyes (2021), Colin Stanton (2021), Julia Marshall (2020), Gordon Kraft-Todd (2019), Stefan Uddenberg (2018).

**Active graduate student committees:** Mario Belledone, Brandon Carrillo, Emily Gerdin, Rebecca Ramnauth (CS area exam committee), Reut Shachnai, Aalap Shah, Sifana Sohail, Yuting Zhang.

**Undergraduate faculty advisor:** Elias Vlastos, Fabeha Jahra, Beatrix King, Eunice Lee, Sofia Turner, Edwin Ruiz Fuentes, Ana Greenberg, Pablo Garza, Allie Olson, Tetsu Kurumisawa, Ricardo Ahumada de la Torre, Tioba Akinjaiyeju, Chidimma Nzekwe.

**Undergraduate senior thesis advisor:** Tan Zhi Yi (Yale NUS; 2024), Michael Gabashvili (cognitive science, 2024), Sarah Chiang (cognitive science, 2022), Joseph Kwon (computer science & psychology, 2021), Lukas Burger (cognitive science, 2020), Jack Auen (psychology, 2019), Madeleine Conlin (psychology, 2019), Victor Hunt (cognitive science, 2018), Maria Maier (psychology, 2018), Jimmy Shih (psychology and computer science, 2019).

**Undergraduate student researchers:**

Kate Choi (Yale, 2024-ongoing), Rory Schoenberger (Yale, 2024-ongoing), Sophie Lau (Yale, 2024-ongoing), Julia Miller (Yale; 2024-ongoing), Ben Sterling (Yale; 2022-ongoing), Shane Lee (Yale; 2024), Juliet Weschke (Hunter College, 2024), DJ Bray (Yale, 2024), Michael Gabashvili (Yale; 2023-2024), Emma Carrollo (2023-2024), Olivia White-Storti (Yale; 2023), Jessica Yu (Yale; 2022-2023), Abi Tenenbaum (Yale; 2022-2023), Mrinmoyee Guha (Yale; 2022), Tan Zhi Yi (Yale NUS; 2022-2024), Alice Ao (Yale; 2022), Nathalia Reis (Yale; 2021-2022), Janice Dean (Yale; 2021-2022), Gamze Kazakoglu (Yale; 2021-2022), Hudson Patterson (Yale; 2020-2022), Zhangir Azerbayev (Yale, 2021-2022), Lauren Barragan (Wellesley; Summer 2021), Jenna Landy (Cornell; Summer 2021), Mikaela Boone (Spring 2021), Sophia Lee (Spring 2021), Anna Fleming (Yale; 2020-2021), Tanushree Burman (Yale; 2021), Bernardo Eilert Trevisian (Yale; 2021), Eden Senay (Yale; 2019-2021), Sofia Rubio (Wellesley; Summer 2020), Caroline Telesz (Georgetown, Summer 2020), Eleanor Iksander (Yale; 2019-2020), Lukas Burger (Yale Cogsci; 2019-2020), Kaylee Lee (Wellesley; Summer 2019), Scarlet Cho (USC; Summer 2019), Joseph Kwon (CS, 2018-2019), Jimmy Shish (Yale CS+Psych; 2018-2019), Maeve Bustell (Bennington college; 2019), Sam Fereidooni (Yale; 2018), Rudd Fawcett (Yale; 2018), Katherine Hoffman (Yale; 2018), Stephanie Bang (Yale; 2018), Gwyneth Heuser (University of Rochester; summer 2018), Amanda O'Donnell (University of Rochester; summer 2018), Lindsay Stoner (Kenyon College; summer 2018), Sarah Wong (Wellesley College; summer 2018), Caiqin Zhou (Wellesley College; Fall 2018), Victor Hunt (Spring 2018), Ethan Weinberger (Yale mathematics; Summer 2018), Breanna McBean (CSU Fullerton; 2018 CBMM summer research program), Liam Elkind (Yale; Spring 2018), Ece Bozkurt (Yale; spring 2018), Ivana Bozic (Yale; 2018), Annie Chen (Yale CS; 2018), Gemma Nicholson (Quinnipiac University; 2017-2018), Camila Rivera-Soto (Yale cognitive science; 2017-2018), Amanda Royka (Yale cognitive science; 2017-2018), Joey Velez-Ginorio (UCF; 2016 CBMM summer research program), Abigail Clark (Smith college; 2016), Allison Kaslow (BCS, MIT; 2015), Lena Yang (BCS, MIT; 2015), Christina Ma (Wellesley college; 2015), Madeline Klein (Smith college; 2015), Mary DePascale (Wesleyan; 2015), Felix Sun (CSAIL; 2014-2015 Super UROP program), Eileen Rivera (Wellesley college; 2014), Anna Fountain (BCS, MIT; 2014), Sophie Cao (BCS, MIT; 2014), Diego Guerrero (CSAIL, MIT; 2014), Mika Maeda (Wellesley college; 2013-2014), Aviana Polsky (BCS, MIT; 2013), Jessica Wass (BCS, MIT; 2013), Kristina Presing (BCS, MIT; 2013), Vivian Tran (BCS, MIT; 2013), Salvador Esparza (BCS, MIT; 2012-2013), Jenny Yang (Wellesley College; 2012), Eric Garr (Adelphi University; 2012).

**Undergraduate senior thesis reader:** Jamie Yeh (2024), Olivia Clark (2023), Lily Siegel (2023), Aram Russell (2023), Noah Noman (2023), Sophia Y. Lee (2022), Lena Chan (2021), Owen Marks (2021), Kacie Saxer-Taulbee (2018), Cole Rianda (2018), Andi Peng (2018), Elizabeth Coquillete (2017).

## Service to the field

**Parent Researcher Collaborative** founding member and member of advisory board (2020-present): http://childrenhelpingscience.com.

**Editorial Positions**: Foundations and Trends in Cognitive Science (2024-ongoing); Open Mind: Discoveries in Cognitive Science, Associate Editor (2020-2023); Child Development,

Consulting Editor (2019-2020).

**Conference Program Committees:** Cognitive Computational Neuroscience (2022), Cognitive Development Society (2022), Cognitive Science Society (2020–2025).

**Journal reviewing (Ad-hoc)**: American Psychologist, Artificial Intelligence, Behavioral and Brain Sciences (BBS), Child Development, Cognition, Cognitive Development, Cognitive Psychology, Cognitive Science, Developmental Psychology, eLife, Emotion, Inventio, Journal of Experimental Child Psychology (JECP), Journal of Experimental Psychology: General (JEP:G), Journal of Pragmatics, Nature Communications, Nature Communications Psychology, Nature Human Behaviour, Nature Machine Intelligence, Open Mind: Discoveries in Cognitive Science, PLOS Computational Biology, PLOS One, Philosophies, Philosophical Transactions A, Proceedings of the National Academy of Sciences (PNAS), Proceedings of the Royal Society B, Psychological Bulletin, Psychological Review, Psychological Science, Science, Scientific Reports, Social Cognition, Synthese, and Trends in Cognitive Sciences (TiCS).

**Conference reviewing (Ad-hoc)**: Annual meeting of the cognitive science society, Human Sentence Processing (HSP; formerly CUNY); Society for Philosophy and Psychology (SPP), Society for Research in Child Development (SRCD), NeurIPS.

**Grant reviewing (Ad-hoc)**: NSF Developmental Sciences (reviewer); NSF Decision, Risk, and Management (reviewer); NSF Perception, Action, and Cognition (reviewer); NSF EHR Core Research (panelist); NSF Research on Emerging Technologies for Teaching and Learning (panelist); John Templeton Foundation; The Abdul Latif Jameel Poverty Action Lab (J-PAL).

**Book proposal reviewer (Ad-hoc)**: MIT Press, Routledge.

**Other:** Pop-up mentor (2023, SPP); Student & Early Career Mentoring Program (2022, CDS pre-conference); Graduate Student Mentor (2020, annual meeting of the cognitive science society); Graduate Student and Postdoc Speed Mentor (2019, annual meeting of the cognitive science society).

## Service to the University

Quantitative Faculty Search Committee (2025-2026), Yale College Executive Committee (2025-2026), WTI BrainWorks Steering Group (2024-present), Developmental Faculty Search Committee (2024-2025), Quantitative Faculty Search Committee (2024-2025), Cognitive Science Program Executive Committee (2022-2023), Developmental Faculty Search Committee (2022-2023), WTI Hiring Committee (2022-2023), Computation and Data Services Advisory Committee (2022-2023), Current Works in Cognitive Development series organizer (2022-2023), Yale Education Studies Advisory Committee (2022-2023), Dean of Silliman College Search Committee (2022-2023), Yale CogSci Glushko Thesis Prize Committee (2021-2022), WTI Hiring Committee (2021-2022), Yale Education Studies Advisory Committee (2021-2022), WTI Neurocomputation & Machine Intelligence Working Group (2021-2022), Cognitive Science Faculty Search Committee (2021-2022), Panelist for Yale's Research Psychology Bootcamp (2021), Graduate Program Advisory Committee (2020-2021), Yale Psychology Colloquium Series Organizer (2020-2021), Yale Education Studies Advisory Committee (2018-2019), Wrexham Prize Committee for the

Social Sciences (2019), Graduate Program Advisory Committee (2018-2019), Current Works in Cognitive Development Series Organizer (2018-2019), Cognitive Faculty Search Committee (2018-2019), Yale Fulbright Committee (2018), Wrexham Prize Committee for the Social Sciences (2018), Graduate Program Advisory Committee (2017-2018), Current Works in Cognitive Development Series Organizer (2017-2018).