

## Julian Jara-Ettinger, Ph.D.

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### Mailing address

Department of Psychology  
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### Education and employment

2017-present	Assistant Professor of Psychology (primary), Cognitive Science, and Computer Science (secondary). Yale University.
2016-2017	Postdoctoral fellow. Simons Center for the Social Brain. MIT.
2011-2016	PhD in Brain and Cognitive Sciences. MIT.
2011	Research Scientist. Department of Cognitive Science. UCSD.
2006-2011	BS in Physics and Mathematics. Universidad Michoacana.

### Awards and Honors

2017	Robert J. Glushko Prize for Outstanding Doctoral Dissertation.
2017	SRCD Outstanding Doctoral Dissertation Award.
2015	Glushko Student Travel Award, Cognitive Science Society.
2013	Angus MacDonald Award for Excellence in Undergraduate Teaching.
2012	Cosyne New Attendees Travel Grant Award.
2011 & 2012	Singleton Graduate Fellowship.
2007 & 2009	Honorable Mention. ACM international collegiate programming contest. Regional level (Mexico and Central America).

### Publications

#### Journal articles

- Jara-Ettinger, J.\*, Floyd, S.\*, Tenenbaum, J.B., & Schulz, L. E. (*in press*), Children believe that agents maximize expected utilities. *Journal of Experimental Psychology: General*.
- Rubio-Fernández, 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*.
- 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*.
- Ferrigno, S., Jara-Ettinger, J., Piantadosi, S.T., & Cantlon, J. (2017). A universal number bias in monkeys, children, and innumerate adults. *Nature Communications*.
- Jara-Ettinger, J., Gweon, H., Tenenbaum, J. B., & Schulz, L. E. (2016). The naïve utility calculus: computational principles underlying social cognition. *Trends in Cognitive Sciences*.
- 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*.

- Jara-Ettinger, J., Gweon, H., Tenenbaum, J. B., & Schulz, L. E. (2015). Children's understanding of the costs and rewards underlying rational action. *Cognition*.
- 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*.
- Jara-Ettinger, J., Tenenbaum, J.B., & Schulz, L. E. (2015). Not so innocent: Toddlers' inferences about costs and culpability. *Psychological Science*.
- Piantadosi, S., Jara-Ettinger, J., Gibson, E. (2014). Children's development of number in an indigenous farming-foraging group. *Developmental Science*.

#### **Book chapters**

- 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. Book chapter in *Air Quality – Models and Applications*, ISBN 978-953-307-307-1.

#### **Refereed conference proceedings**

- Jara-Ettinger, J., & Gweon, H. (2017). Minimal covariation data support future one-shot inferences about unobservable properties of novel agents. *Proceedings of the Thirty-Ninth Annual Conference of the Cognitive Science Society*.
- Velez-Ginorio, J., Siegel, M., Tenenbaum, J.B., & Jara-Ettinger, J. (2017). Interpreting actions by attributing compositional desires. *Proceedings of the Thirty-Ninth Annual Conference of the Cognitive Science Society*.
- 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 Thirty-Eighth Annual Conference of the Cognitive Science Society*.
- Bridgers, S., Jara-Ettinger, J., & Gweon, H. (2016). Children consider others' expected costs and rewards when deciding what to teach. *Proceedings of the Thirty-Eighth Annual Conference of the Cognitive Science Society*.
- 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 Thirty-Seventh Annual Conference of the Cognitive Science Society*.
- Jara-Ettinger, J., Schulz, E., & Tenenbaum, J. B. (2015). The naïve utility calculus: Joint inferences about the costs and rewards of actions. *Proceedings of the Thirty-Seventh Annual Conference of the Cognitive Science Society*.
- 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 Thirty-Seventh Annual Conference of the Cognitive Science Society*.
- Jara-Ettinger, J.\*, Kim, N.\*, Muentener, P., & Schulz, E. (2014). Running to do evil: Costs incurred by perpetrators affect moral judgment. *Proceedings of the Thirty-Sixth Annual Conference of the Cognitive Science Society*.
- Jara-Ettinger, J., Gweon, H., Tenenbaum, J.B., & Schulz, L (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 Thirty-Sixth Annual Conference of the Cognitive Science Society*.
- Jara-Ettinger, J., Tenenbaum, J.B., & Schulz, L (2013). Not so innocent: Reasoning about costs, competence, and culpability in very early childhood. *Proceedings of the Thirty-Fifth Annual Conference of the Cognitive Science Society*.

- Jara-Ettinger, J., Baker, CL., Tenenbaum, JB. (2012) Learning What is Where from Social Observations. *Proceedings of the Thirty-Fourth Annual Conference of the Cognitive Science Society*.

#### **Manuscripts under review**

- Jara-Ettinger, J. \*, Sun, F. \*, Schulz L. E., & Tenenbaum, J.B. The principle of efficiency unifies spatial and statistical routes to preference.
- Jara-Ettinger, J., Schulz, L.E., & Tenenbaum, J.B. The naïve utility calculus as a foundation of action understanding.
- Jara-Ettinger, J., Levy, R., Sakel, J., & Gibson, E. The cultural origins of the shape bias: Evidence from the Tsimane’.
- Gibson, E., Futrell, R., Jara-Ettinger J., Mahowald, K., Bergen, L., Sivalogeswaran, R., Gibson, M., Piantadosi, S.T., & Conway, B., Color language reflects usefulness of color.
- Gibson, E., Jara-Ettinger J., Levy, R., & Piantadosi, S.T. Task effects in cross-cultural research: Computer experiments can yield misleading results in non-industrialized populations.

#### **Manuscripts in preparation**

- Jara-Ettinger, J., Floyd, S., Huey, H., Tenenbaum, J.B., & Schulz, L. Social pragmatics: four and five-year-olds rely on commonsense psychology to resolve referential ambiguities.
- Bridgers, S., Jara-Ettinger, J., & Gweon, L.E. Children consider others’ expected costs and rewards when deciding what to teach.
- Jara-Ettinger, J., Gibson, E., & Piantadosi, S.T. From sets to numbers and back. Reevaluating what children learn when they learn to count.
- Jara-Ettinger, J., Bunny: A python library for power analyses through monte carlo simulations.
- Jara-Ettinger, J., Kidd, C., Piantadosi, S.T., & Gibson, E. Universal expectations about symbolic structures: Evidence from the Tsimane’ of Bolivia.
- Jara-Ettinger, J. Rational illusions in social cognition: less competent agents seem nicer.
- Piantadosi, S.T., Jara-Ettinger J., & Gibson, E. The relation between the approximate number system and exact arithmetic.

### **Invited talks and guest lectures**

- 2017 Searching for cognitive universals. CUNY workshop  
Krasnow lab meeting. Department of Psychology, Harvard University  
Psychology and Economics group. Department of Economics, Harvard University  
Junior Colloquium in Cognitive Science. Cognitive Science Program, Yale University
- 2016 ABRCMS. Tampa, FL  
Department of Psychology. Columbia University  
Department of Psychology. University of Michigan
- 2015 Psychological & Brain Sciences Department. Johns Hopkins University  
Psychology Department. Yale University  
Department of Psychology. University of Chicago  
Language and Cognition seminar. Department of Psychology. Harvard University
- 2014 Kelemen group. Department of Psychology. Boston University  
Department of Brain & Cognitive Sciences. University of Rochester
- 2013 “Conexiones: Charlas intercampus” talk series. Tufts University  
Invited lecture. 9.85. Infant and early childhood cognition. MIT
- 2012 Invited lecture. 9.85. Infant and early childhood cognition. MIT

## Other presentations

- 2016 Annual Meeting of the Cognitive Science Society. Philadelphia, PA.  
International Conference on Thinking. Brown University.  
International Congress on Infant Studies. New Orleans, LA.
- 2015 BCS Coglunch series. Boston, MA.  
Annual Meeting of the Cognitive Science Society. Pasadena, CA.
- 2014 BCS Coglunch series. Boston, MA.  
Annual Meeting of the Cognitive Science Society. Quebec, Canada.  
Annual Meeting of the Society for Philosophy and Psychology. Vancouver, Canada.  
BCS, MIBR, PILM Retreat. Cape Cod, MA.
- 2013 Boston Area Moral Cognition Group (BAM). Boston, MA.  
Annual Meeting of the Cognitive Science Society. Berlin, Germany.  
Lab de IDEAS. Harvard University.  
CBMM research meeting. MIT.  
SRCD Biennial Meeting. Seattle, WA.  
BCS Coglunch series. MIT.
- 2012 Annual Meeting of the Cognitive Science Society. Sapporo, Japan.

## Selected poster presentations

- 2016 Velez-Ginorio J. (presenter), Siegel, M., Tenenbaum, J.B., & Jara-Ettinger J. "The language of mental states: compositionality and rationality in Theory of Mind". ABRCMS. **Best poster presentation in Social & Behavioral sciences award.**  
Velez-Ginorio J. (presenter), Siegel, M., Tenenbaum, J.B., & Jara-Ettinger J. "The language of mental states: compositionality and rationality in Theory of Mind". SACNAS. **Best poster presentation award.**

## Teaching

- Spring 2018 PSYC 437 / COGS 437 / PSYC 637 – Minds, Brains, and Machines.  
Fall 2017 PSYC 518 – Multivariate statistics.  
Fall 2013 9.85 - Infant and Early Childhood Cognition (Teaching Assistant).  
Fall 2012 9.85 - Infant and Early Childhood Cognition (Teaching Assistant).

## Reviewing

Cognition, Cognitive Psychology, Cognitive Science, Emotion, Inventio, Journal of Experimental Child Psychology, PLOS Computational Biology, PNAS, and Psychological Review.

## Mentoring and advising

- 2016-present Rosie Aboody. Graduate student. Yale.  
2016-2017 Joey Velez-Ginorio. UCF.  
2016 Abigail Clark, Smith College; Amy Zhang, BCS, MIT.  
2015 Mary DePascale, Wesleyan University; Madeline Klein, Smith College; Christina Ma, Wellesley; Allison Kaslow, BCS, MIT; Lena Yang, BCS, MIT.

2014-2015	Felix Sun. CSAIL, MIT.
2014	Diego Guerrero, CSAIL, MIT; Sophie Cao, BCS, MIT; Anna Fountain, BCS, MIT; Eileen Rivera, Wellesley.
2013-2014	Mika Maeda. Wellesley.
2013	Vivian Tran. BCS, MIT; Kristina Presing. BCS, MIT; Jessica Wass, BCS, MIT; Aviana Polsky, BCS, MIT.
2012-2013	Salvador Esparza. Bcs, MIT.
2012	Jenny Yang. Wellesley.
2012	Eric Garr. Adelphi University.

### **Media coverage**

2016	PNAS Journal Club.
2015	Psychology today; MIT News.
2014	MIT News; Psychology today.
2013	La Voz de Michoacán.

Updated: 05/2017.