

MAX KLEIMAN-WEINER

CONTACT INFORMATION	William James Hall 1482 33 Kirkland Street Cambridge, MA 02138	maxkleimanweiner@fas.harvard.edu (310)-487-4553 www.mit.edu/~maxkw
EDUCATION	PhD Brain and Cognitive Sciences Massachusetts Institute of Technology Computational Cognitive Science Group Advisor: Josh Tenenbaum Committee: Drazen Prelec, Rebecca Saxe, Fiery Cushman GPA: 5.0/5.0	2012–2018
	2x MSc Applied Statistics & Experimental Psychology University of Oxford, Merton College Advisors: Timothy Behrens & Matthew Rushworth	2010, 2012
	BS Biological Sciences and honors in Neuroscience Stanford University The Deans' Award (1 of 8, highest academic award) Firestone Medal (1 of 34, highest research award) GPA: 3.9/4.0, Phi Beta Kappa and departmental distinction	2009
EMPLOYMENT	Harvard University, Data Science Initiative and CRCS Postdoctoral Fellow MIT, Research Scientist Diffeo, Co-Founder & Chief Scientist Knowledge Base Acceleration (KBA), Organizer Chinese Academy of Sciences & REAP, Fulbright Fellow McKinsey & Company, Summer Associate	2018-present 2018-present 2012-present 2011-2014 2011-2012 2010
AWARDS	2017 Best Paper (1st of 200+) – Reinforcement Learning and Decision Making 2017 William James Prize (best paper) – Society for Philosophy and Psychology 2016 MIT Pokerbots 1st of 22 (\$10,000 prize) 2016 Angus MacDonald Award for Excellence in Undergraduate Teaching 2015 MIT Pokerbots 1st of 38 (\$10,000 prize) 2015,16,18 Cognitive Science Society Glushko Student Travel Award (merit based) 2015 Psychonomics Poster Finalist 2013 Newman Entrepreneurial Initiative (\$25,000 award)	
FELLOWSHIPS	2011-2017 Hertz Foundation Graduate Fellowship 2011-2012 Fulbright Research Fellowship (China) 2009-2014 NSF Graduate Research Fellowship 2009-2011 Marshall Scholar 2008 Barry M. Goldwater Scholar 2008 Irene and Eric Simon Brain Research Foundation Student Fellow	
SHORT COURSES	2014 Machine Learning Summer School (MLSS) 2013 Santa Fe Institute (SFI) - Complex Systems Summer School 2011 Inter-University Program (IUP) for Chinese Language Studies	

Google Scholar Link: scholar.google.com/citations?hl=en&user=SACXQKYAAAAJ

- Strouse, D., **Kleiman-Weiner, M.**, Tenenbaum, J.B., Botvinick, M., Schwab, D. (2018) Learning to share and hide intentions using information regularization. *Neural Information Processing Systems (NIPS)*.
- Cao, J., **Kleiman-Weiner, M.**, & Banaji, M.R. (in press). People make the Bayesian judgment they criticize in others. *Psychological Science*.
- Kleiman-Weiner, M.**, Tenenbaum, J. B., & Zhou, P. (2018). Non-parametric Bayesian inference of strategies in infinitely repeated games. *Econometrics Journal*.
- Gerstenberg, T., Ullman, T. D., Nagel, J., **Kleiman-Weiner, M.**, Lagnado, D. A. & Tenenbaum, J. B. (2018). Lucky or clever? From changed expectations to attributions of responsibility. *Cognition*
- Kim R., **Kleiman-Weiner M.**, Abeliuk A., Awad E., Dsouza S., Tenenbaum J.B.. & Rahwan I. (2018). A Computational Model of Commonsense Moral Decision Making. *AAAI/ACM: AI, Ethics, and Society*
- Halpern, J.Y., **Kleiman-Weiner, M.** (2018). Towards Formal Definitions of Blame-worthiness, Intention, and Moral Responsibility. *AAAI*.
- Cao, J., **Kleiman-Weiner, M.**, & Banaji, M.R. (2017). Statistically inaccurate and morally unfair judgments via base rate intrusion. *Nature Human Behavior*, 1(10), 738.
- Kleiman-Weiner, M.**, Saxe, R., & Tenenbaum, J. B. (2017). Learning a commonsense moral theory. *Cognition*.
- Kleiman-Weiner, M.**, Shaw, A., & Tenenbaum, J. B. (2017). Constructing Social Preferences From Anticipated Judgments: When Impartial Inequity is Fair and Why? *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. [oral]
- Kleiman-Weiner, M.**, Ho, M., Austerweil, J. L., Littman, M. L., & Tenenbaum, J. B. (2016). Coordinate to cooperate or compete: abstract goals and joint intentions in social interaction. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. [oral]
- Ho, M., MacGlashan, J., Greenwald, A., Littman, M. L., Hilliard, E. M., Trimbach, C., Stephen, B., Tenenbaum, J. B., **Kleiman-Weiner, M.**, & Austerweil, J. L. (2016). Feature-based joint planning and norm learning in collaborative games. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.
- Kleiman-Weiner, M.**, Gerstenberg, T., Levine, S., & Tenenbaum, J. B. (2015). Inference of intention and permissibility in moral decision making. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. [oral]
- 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 37th Annual Conference of the Cognitive Science Society*.
- Gerstenberg, T., Ullman, T. D., **Kleiman-Weiner, M.**, Lagnado, D. A., & Tenenbaum, J. B. (2014). Wins above replacement: Responsibility attributions as counterfactual replacements *Proceedings of the 36th Annual Conference of the Cognitive Science Society*.
- Frank, J.R., **Kleiman-Weiner, M.**, Roberts, D.A., Voorhees, E., & Soboroff, I. (2014). Evaluating stream filtering for entity profile updates in TREC 2012, 2013, and 2014 (*KBA Track Overview, Notebook Paper*)

- Frank, J. R., Bauer, S. J., **Kleiman-Weiner, M.**, Roberts, D. A., Tripuraneni, N., Zhang, C., Ré, C., Voorhees, E., & Soboroff, I. (2013). *Evaluating Stream Filtering for Entity Profile Updates for TREC 2013 (KBA Track Overview)*.
- Kleiman-Weiner, M.**, Luo, R., Zhang, L., Shi, Y., Medina, A., & Rozelle, S. (2013). Eggs versus chewable vitamins: which intervention can increase nutrition and test scores in rural china? *China Economic Review*, 24, 165176.
- Zhang, L., Kleiman-Weiner, M., Luo, R., Shi, Y., Martorell, R., Medina, A., & Rozelle, S. (2013). Multiple micronutrient supplementation reduces anemia and anxiety in rural Chinas elementary school children. *The Journal of Nutrition*, 143(5), 640 647.
- Frank, J. R., **Kleiman-Weiner, M.**, Roberts, D. A., Niu, F., Zhang, C., Ré, C., & Soboroff, I. (2012). Building an entity-centric stream filtering test collection for TREC 2012. *Proceedings of the Text Retrieval Conference (TREC)*.
- Cepeda, C., Cummings, D. M., Hickey, M. A., **Kleiman-Weiner, M.**, Chen, J. Y., Watson, J. B., & Levine, M. S. (2010). Rescuing the corticostriatal synaptic disconnection in the R6/2 mouse model of Huntingtons disease: exercise, adenosine receptors and ampakines. *PLoS Currents*, 2.
- Luo, R., **Kleiman-Weiner, M.**, Rozelle, S., Zhang, L., Liu, C., Sharbono, B., Shi, Y., & Lee, M. (2010). Anemia in rural Chinas elementary schools: prevalence and correlates in Shaanxi provinces poor counties. *Ecology of Food and Nutrition*, 49(5), 357372.
- Kleiman-Weiner, M.**, Beenhakker, M. P., Segal, W. A., & Huguenard, J. R. (2009). Synergistic roles of GABAA receptors and SK channels in regulating thalamocortical oscillations. *Journal of Neurophysiology*, 102(1), 203213.
- Schofield, C. M., **Kleiman-Weiner, M.**, Rudolph, U., & Huguenard, J. R. (2009). A gain in GABAa receptor synaptic strength in thalamus reduces oscillatory activity and absence seizures. *Proceedings of the National Academy of Sciences*, 106 (18), 7630 7635.
- Cepeda, C., André, V. M., Yamazaki, I., Wu, N., **Kleiman-Weiner, M.**, & Levine, M. S. (2008). Differential electrophysiological properties of dopamine D1 and D2 receptor-containing striatal medium-sized spiny neurons. *European Journal of Neuroscience*, 27(3), 671682.
- Kleiman-Weiner, M.**, & Berger, J. (2006). The sound of one arm swinging: a model for multidimensional auditory display of physical motion. *Proceedings of the 14th International Conference on Auditory Display*.
- IN PROGRESS Awad E., Levine S., **Kleiman-Weiner, M.**, Dsouza S., Tenenbaum J.B., Shariff A., Bonnefon J., & Rahwan I. (under review) Blaming humans in autonomous vehicle accidents: Shared responsibility across levels of automation. *Nature Human Behavior*.

INVITED PRESENTATIONS 2018 O'Reilly Artificial Intelligence Conference, NYC
 2018 Distinguished Speaker for the Accelerated Discovery Forum, IBM Research (Almaden)
 2017 Cooperative Social Intelligence Workshop (Organizer), CogSci
 2017 Facebook AI (FAIR), New York
 2017 Human Cooperation Lab (Prof. David Rand), Yale
 2017 Morality, Language and Thought Workshop, Institut Jean Nicod
 2017 Scalable Cooperation Group (Prof. Iyad Rahwan), MIT Media Lab
 2017 Social Cognitive Neuroscience Lab (Prof. Rebecca Saxe), MIT BCS
 2017 MIT Cognitive Lunch
 2016 Workshop on Physical & Social Scene Understanding, CogSci
 2016 Workshop on Learning, Inference and Control of Multi-Agent Systems, NIPS
 2016 Organizational Economics Lunch, MIT Sloan
 2016 Cooperation and Self-Control Workshop, London
 2016 London Judgement and Decision Making Seminar, UCL
 2016 DeepMind, London
 2016 Boston College, Carroll School of Management, JDM Day
 2016 Morality Lab (Prof. Liane Young), Boston College
 2016 Computational Cognitive Neuroscience Lab (Prof. Sam Gershman), Harvard
 2016 Computation & Cognition Lab (Prof. Noah Goodman), Stanford
 2015 Brown University, Department of Cognitive, Linguistic & Psychological Sciences, Cognition Seminar Series
 2015 Shaw Lab (Prof. Alex Shaw), University of Chicago
 2015 Boston Area Moral Cognition Group
 2015 Affective Brain Lab (Prof. Tali Sharot), UCL/MIT
 2015 Scalable Cooperation Group (Prof. Iyad Rahwan), MIT Media Lab
 2015 MIT Cognitive Lunch
 2015 Moral Psychology Research Lab (Prof. Fiery Cushman & Josh Greene), Harvard
 2015 Computation & Cognition Lab (Prof. Noah Goodman), Stanford
 2015 Northeastern Undergraduate Researchers of Neuroscience
 2009 Achauer Honors Symposium (Stanford)

PATENTS Roberts, D.A., **Kleiman-Weiner, M.**, Frank, J.R., *et al.*, "Entity-centric knowledge discovery," Mar. 1, 2016. US Patent 9,275,132.

TEACHING EXPERIENCE 2016 TA: Statistical Learning Theory and Applications (MIT 9.520/6.860)
 2013, 14, 15 TA: Computational Cognitive Science (MIT 9.66/9.660/6.804)
 2009 TA: Economic Development of Greater China (Stanford EASTASN 285C)
 2008 Lecturer: Current Debates in Neuroscience (Stanford)

SUPERVISED STUDENTS **Masters of Engineering:** Luana Lopes Lara (2018-), Jack Serrino (2018-), Michael Shum (2017-2018), Lily Zhang (2017-2018)
Undergraduate: Alyssa Dayan (2018), Penghui Zhou (2015-2016), Daniel Lerner (2015-2016), Suzanne A Mueller (2015-2016), Erwin Hilton (Summer 2015), Max Maybury (Spring 2015), Paul Masterson (Spring 2015), Alejandro Vientos (Summer 2014, 2016-), Max Stein-Golenbock (Spring 2014), Drew Drechsler (Fall 2013)

MISC Citizenship: USA
 Languages: English, Mandarin Chinese