# **Tobias Gerstenberg**

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Address: Brain and Cognitive Sciences, Massachusetts Institute of Technology, USA.

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## Education

| Sep 2018 -           | Assistant Professor in Cognitive Psychology • PI of the Causality in Cognition Lab (CICL)          | Stanford, USA                                 |
|----------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Apr 2014 - Jul 2018  | Postdoctoral Associate • PI: Prof. Joshua Tenenbaum                                                | MIT, USA                                      |
| Apr 2013 - Apr 2014  | Postdoctoral Fellow • PI: Prof. Joshua Tenenbaum                                                   | MIT, USA                                      |
| Aug 2009 - Feb 2013  | <ul><li>PhD Candidate</li><li>Supervisors: Dr. David Lagnado &amp; Prof. Nick<br/>Chater</li></ul> | University College London, England            |
| Oct 2008 - Aug 2009  | Course Attendance • Psychology, Computer Science, Philosophy and Theology                          | Humboldt University,<br>Berlin, Germany       |
| Sep 2007 - Sep 2008  | MSc Cognitive and Decision Sciences • Supervisor: Dr. David Lagnado                                | University College London, England            |
| Sep 2005 - July 2007 | Vordiplom (eqvl. BSc)                                                                              | Humboldt University,<br>Berlin, Germany       |
| Sep 1995 - July 2004 | Abitur (eqvl. A-levels)                                                                            | Scheffel Gymnasium, Bad<br>Säckingen, Germany |

## Awards & Scholarships

| 2015 - 2016         | Templeton Foundation: "The Experience Project: Computational models of the intuitive theory of transformative experiences" (\$90,000; co-PI) |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Apr 2013 - 2014     | MIT Intelligence Initiative PostDoc Scholarship                                                                                              |
| May 2004 - Dec 2012 | e-fellows.net Scholarship                                                                                                                    |
| Sep 2009 - Sep 2012 | AXA PhD Scholarship (€120,000)                                                                                                               |
| Apr 2012            | PPG Conference Best Presentation Award, London, England                                                                                      |
|                     | Award for best oral presentation at the annual conference of UCL's postgraduate                                                              |
|                     | peer group                                                                                                                                   |
| Mar 2011            | UCL Sully Scholarship (£1,466), London, England                                                                                              |
|                     | Award for best PhD upgrade talk in the Department of Cognitive, Perceptual, and Brain Sciences, 2010                                         |
| Jan 2011            | UCL Bogue Scholarship (£3,450), London, England                                                                                              |
|                     | Grant to cover 3-month lab visits to Stanford and MIT                                                                                        |
| Oct 2010            | KogWis, Berlin, Germany                                                                                                                      |
|                     | Conference travel grant                                                                                                                      |
| Feb 2006 - Sep 2009 | Scholar of the German National Academic Foundation                                                                                           |

| July 2009 | Max Planck Institute Berlin, Germany                                          |
|-----------|-------------------------------------------------------------------------------|
|           | 2 nd prize in poster competition of the Summer Institute on Bounded Rational- |
|           | ity                                                                           |
| Nov 2008  | University College London, England                                            |
|           | Best performing student of the academic year for the MSc in Cognitive and     |
|           | Decision Sciences                                                             |
| July 2006 | Humboldt University, Berlin, Germany                                          |
| ·         | Winner of the competition for the first psychological experiment              |

#### **Publications**

Note: \* indicates joint first authorship.

## Papers in preparation

1. Gerstenberg, T., N. D. Goodman, D. A. Lagnado, and J. B. Tenenbaum (in preparation). A counterfactual simulation model of causal judgment.

## Submitted papers

- 2. Morris, A., J. Phillips, T. Icard, J. Knobe, T. Gerstenberg, and F. Cushman (2018). Judgments of actual causation approximate the effectiveness of interventions. *PsyArXiv*.
- 3. Bramley, N. R., T. Gerstenberg, J. B. Tenenbaum, and T. M. Gureckis (submitted). Intuitive experiments in the physical world.
- 4. Niemi, L., J. Hartshorne, T. Gerstenberg, and L. Young (submitted). Moral values pervade implicit and explicit causal attribution: Evidence from basic language processing.

## In press

- 5. Bramley, N. R., T. Gerstenberg, R. Mayrhofer, and D. A. Lagnado (in press). Time in causal structure learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- 6. Gerstenberg, T., T. D. Ullman, J. Nagel, M. Kleiman-Weiner, D. A. Lagnado, and J. B. Tenenbaum (in press). Lucky or clever? From expectations to responsibility judgments. *Cognition*.

#### Journal articles

- 7. Koskuba, K., T. Gerstenberg, H. Gordon, D. A. Lagnado, and A. Schlottmann (2018). What's fair? How children assign reward to members of teams with differing causal structures. *Cognition* 177, 234–248.
- 8. Gerstenberg, T., M. Peterson, N. D. Goodman, D. A. Lagnado, and J. B. Tenenbaum (2017). Eyetracking causality. *Psychological Science*.
- 9. Gershman\*, S. J., T. Gerstenberg\*, C. L. Baker, and F. Cushman (2016). Plans, habits, and theory of mind. *PLoS ONE* **11**(9), e0162246.
- 10. Alicke, M. D., D. R. Mandel, D. Hilton, T. Gerstenberg, and D. A. Lagnado (2015). Causal conceptions in social explanation and moral evaluation: A historical tour. *Perspectives on Psychological Science* **10**(6), 790–812.
- 11. Kominsky, J. F., J. Phillips, T. Gerstenberg, D. A. Lagnado, and J. Knobe (2015). Causal superseding. *Cognition* **137**, 196–209.
- 12. Lagnado, D. A., T. Gerstenberg, and R. Zultan (2013). Causal responsibility and counterfactuals. *Cognitive Science* **47**, 1036–1073.
- 13. Gerstenberg, T. and D. A. Lagnado (2012). When contributions make a difference: Explaining order effects in responsibility attributions. *Psychonomic Bulletin & Review* **19**(4), 729–736.
- 14. Zultan, R., T. Gerstenberg, and D. A. Lagnado (2012). Finding fault: Counterfactuals and causality in group attributions. *Cognition* **125**(3), 429–440.

- 15. Gerstenberg, T. and D. A. Lagnado (2010). Spreading the blame: The allocation of responsibility amongst multiple agents. *Cognition* **115**(1), 166–171.
- 16. Meder, B., T. Gerstenberg, Y. Hagmayer, and M. R. Waldmann (2010). Observing and Intervening: Rational and Heuristic Models of Causal Decision Making. *Open Psychology Journal* 3, 119–135.

## Peer-reviewed conference proceedings articles

- 17. Bramley, N. R., R. Mayrhofer, T. Gerstenberg, and D. A. Lagnado (2017). Causal learning from interventions and dynamics in continuous time. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- 18. Gerstenberg, T., L. Zhou, K. A. Smith, and J. B. Tenenbaum (2017). Faulty towers: A hypothetical simulation model of physical support. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- 19. Stephan, S., P. Willemsen, and T. Gerstenberg (2017). Marbles in Inaction: Counterfactual Simulation and Causation by Omission. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- 20. Yildirim, I., T. Gerstenberg, B. Saeed, M. Toussant, and J. B. Tenenbaum (2017). Physical problem solving: Joint planning with symbolic, geometric, and dynamic constraints. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- 21. Bramley, N., T. Gerstenberg, and J. B. Tenenbaum (2016). Natural science: Active learning in dynamic physical microworlds. In: *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Ed. by A. Papafragou, D. Grodner, D. Mirman, and J. C. Trueswell. Austin, TX: Cognitive Science Society, pp.2567–2572.
- 22. Gerstenberg, T. and J. B. Tenenbaum (2016). Understanding "almost": Empirical and computational studies of near misses. In: *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Ed. by A. Papafragou, D. Grodner, D. Mirman, and J. C. Trueswell. Austin, TX: Cognitive Science Society, pp.2777–2782.
- 23. Niemi, L., J. Hartshorne, T. Gerstenberg, and L. Young (2016). Implicit measurement of motivated causal attribution. In: *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Ed. by A. Papafragou, D. Grodner, D. Mirman, and J. C. Trueswell. Austin, TX: Cognitive Science Society, pp.1745–1750.
- 24. Allen, K., J. Jara-Ettinger, T. Gerstenberg, M. Kleiman-Weiner, and J. B. Tenenbaum (2015). Go fishing! Responsibility judgments when cooperation breaks down. In: *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Ed. by D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, J. Matlock T., C. D., and P. P. Maglio. Austin, TX: Cognitive Science Society, pp.84–89.
- 25. Gerstenberg, T., N. D. Goodman, D. A. Lagnado, and J. B. Tenenbaum (2015). How, whether, why: Causal judgments as counterfactual contrasts. In: *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Ed. by D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, J. Matlock T., C. D., and P. P. Maglio. Austin, TX: Cognitive Science Society, pp.782–787.
- 26. Gerstenberg, T., J. Y. Halpern, and J. B. Tenenbaum (2015). Responsibility judgments in voting scenarios. In: *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Ed. by D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, J. Matlock T., C. D., and P. P. Maglio. Austin, TX: Cognitive Science Society, pp.788–793.
- 27. Kleiman-Weiner, M., T. Gerstenberg, S. Levine, and J. B. Tenenbaum (2015). Inference of intention and permissibility in moral decision making. In: *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Ed. by D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, J. Matlock T., C. D., and P. P. Maglio. Austin, TX: Cognitive Science Society, pp.1123–1128.
- 28. Bramley, N., T. Gerstenberg, and D. A. Lagnado (2014). The order of things: Inferring causal structure from temporal patterns. In: *Proceedings of the 36th Annual Conference of the Cognitive Science*

- *Society.* Ed. by P. Bello, M. Guarini, M. McShane, and B. Scassellati. Austin, TX: Cognitive Science Society, pp.236–241.
- 29. Gerstenberg, T., N. D. Goodman, D. A. Lagnado, and J. B. Tenenbaum (2014). From counterfactual simulation to causal judgment. In: *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Ed. by P. Bello, M. Guarini, M. McShane, and B. Scassellati. Austin, TX: Cognitive Science Society, pp.523–528.
- 30. Gerstenberg, T., T. D. Ullman, M. Kleiman-Weiner, D. A. Lagnado, and J. B. Tenenbaum (2014). Wins above replacement: Responsibility attributions as counterfactual replacements. In: *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Ed. by P. Bello, M. Guarini, M. McShane, and B. Scassellati. Austin, TX: Cognitive Science Society, pp.2263–2268.
- 31. Kominsky, J. F., J. Phillips, J. Knobe, T. Gerstenberg, and D. A. Lagnado (2014). Causal supersession. In: *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Ed. by P. Bello, M. Guarini, M. McShane, and B. Scassellati. Austin, TX: Cognitive Science Society, pp.761–766.
- 32. Gerstenberg, T., C. Bechlivanidis, and D. A. Lagnado (2013). Back on track: Backtracking in counterfactual reasoning. In: *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Ed. by M. Knauff, M. Pauen, N. Sebanz, and I. Wachsmuth. Austin, TX: Cognitive Science Society, pp.2386–2391.
- 33. Gerstenberg, T. and N. D. Goodman (2012). Ping Pong in Church: Productive use of concepts in human probabilistic inference. In: *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Ed. by N. Miyake, D. Peebles, and R. P. Cooper. Austin, TX: Cognitive Science Society, pp.1590–1595.
- 34. Gerstenberg, T., N. D. Goodman, D. A. Lagnado, and J. B. Tenenbaum (2012). Noisy Newtons: Unifying process and dependency accounts of causal attribution. In: *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Ed. by N. Miyake, D. Peebles, and R. P. Cooper. Austin, TX: Cognitive Science Society, pp.378–383.
- 35. McCoy, J., T. Ullman, A. Stuhlmüller, T. Gerstenberg, and J. B. Tenenbaum (2012). Why blame Bob? Probabilistic generative models, counterfactual reasoning, and blame attribution. In: *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Ed. by N. Miyake, D. Peebles, and R. P. Cooper. Austin, TX: Cognitive Science Society, pp.1996–2001.
- 36. Gerstenberg, T., A. Ejova, and D. A. Lagnado (2011). Blame the skilled. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*. Ed. by C. Carlson, C. Hölscher, and T. Shipley. Austin, TX: Cognitive Science Society, pp.720–725.
- 37. Gerstenberg, T., D. A. Lagnado, M. Speekenbrink, and C. Cheung (2011). Rational order effects in responsibility attributions. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*. Ed. by C. Carlson, C. Hölscher, and T. Shipley. Austin, TX: Cognitive Science Society, pp.1715–1720.
- 38. Schächtele, S., T. Gerstenberg, and D. A. Lagnado (2011). Beyond outcomes: The influence of intentions and deception. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*. Ed. by L. Carlson, C. Hölscher, and T. Shipley. Austin, TX: Cognitive Science Society, pp.1860–1865.
- 39. Gerstenberg, T., D. A. Lagnado, and Y. Kareev (2010). The dice are cast: The role of intended versus actual contributions in responsibility attribution. In: *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*. Ed. by S. Ohlsson and R. Catrambone. Austin, TX: Cognitive Science Society, pp.1697–1702.

### **Book chapters**

40. Gerstenberg, T. and J. B. Tenenbaum (2017). "Intuitive Theories". In: *Oxford Handbook of Causal Reasoning*. Ed. by M. Waldmannn. Oxford University Press, pp.515–548.

- 41. Lagnado, D. A. and T. Gerstenberg (2017). "Causation in legal and moral reasoning". In: *Oxford Handbook of Causal Reasoning*. Ed. by M. Waldmann. Oxford University Press, pp.565–602.
- 42. Goodman, N. D., J. B. Tenenbaum, and T. Gerstenberg (2015). "Concepts in a probabilistic language of thought". In: *The Conceptual Mind: New Directions in the Study of Concepts*. Ed. by E. Margolis and S. Lawrence. MIT Press, pp.623–653.
- 43. Lagnado, D. A. and T. Gerstenberg (2015). "A difference-making framework for intuitive judgments of responsibility". In: *Oxford Studies in Agency and Responsibility*. Ed. by D. Shoemaker. Vol. 3. Oxford University Press, pp.213–241.
- 44. Gerstenberg, T. and D. A. Lagnado (2014). "Attributing responsibility: Actual and counterfactual worlds". In: *Oxford Studies in Experimental Philosophy*. Ed. by J. Knobe, T. Lombrozo, and S. Nichols. Vol. 1. Oxford University Press, pp.91–130.

#### PhD thesis & MSc thesis

- 45. Gerstenberg, T. (2013). Making a difference: Responsibility, causality, and counterfactuals. *Unpublished PhD thesis*.
- 46. Gerstenberg, T. (2009). The allocation of responsibility amongst multiple causes. *Unpublished MSc thesis*.

#### Press & Multimedia

- 2017 How we determine blame Article on MIT News covering our *Eye-tracking causality* paper.
  - Wo das essen nicht kalt wird Article in Deutsche Universitätszeitung (DUZ) on what working at MIT is like.
- 2016 Eye-tracking causality Flash presentation at The Center for Brains, Minds & Machines.
- A counterfactual simulation model of causal judgment Recording of invited talk at the Society for Psychology and Philosophy Conference.
- Are you responsible for the outcome of the election? Blog entry written by Tania Lombrozo which covers the "When contributions make a difference: Explaining order effects in responsibility attributions" paper.
- 2010 AXA Talent Day Video created in the context of a talent day organized by AXA in Paris.

Who is to blame when groups succeed or fail? – Blog entry written by Art Markman in *Psychology Today* summarizing the "Spreading the blame: The allocation of responsibility amongst multiple agents" paper.

#### **Conferences & Workshops**

January 2018 Causal pluralism: a multi-disciplinary investigation of causality in philosophy and the sciences, Cambridge, USA

*Talk*: A counterfactual simulation model of causal judgment.

Cognitive Science Conference (39th), London, UK July 2017 **Talk**: Faulty Towers: A hypothetical simulation model of physical support. **Talk:** Causal learning from interventions and dynamics in continuous time (presented by Neil Bramley). Talk: Marbles in inaction: Counterfactual simulation and causation by omission (presented by Simon Stephan). **Poster**: Physical problem solving: Joint planning with symbolic, geometric, and dynamic constraints. **Poster**: Eye movement-based probabilistic models for physical scene understanding (presented by Eghbal Hosseini). Morality, Language, and Thought Workshop, Paris, France July 2017 **Talk**: A counterfactual simulation model of causal judgment. June 2017 Society for Philosophy and Psychology (SPP), Baltimore, USA *Talk*: A counterfactual simulation model of causation by omission. June 2017 Time and causality in the sciences, Hoboken, USA **Talk**: A counterfactual simulation model of causal judgment. May 2017 Brains, Minds, and Machines Workshop, San Juan, Puerto Rico **Talk**: Understanding why: From counterfactual simulations to responsibility judgments. November 2016 Society for Judgment and Decision Making, Boston, USA **Talk**: Lucky or clever? From changed expectations to responsibility judgments. Cognitive Science Conference (38th), Philadelphia, USA August 2016 **Talk in workshop**: The role of space, time, and causality in evaluating counterfactual closeness. Talk: Understanding "almost": Empirical and computational studies of near misses. **Talk:** Natural science: Active learning in dynamic physical microworlds (presented by Neil Bramley). Talk: Implicit measurement of motivated causal attribution (presented by Laura Niemi). International Conference on Thinking, Providence, USA August 2016 **Organized symposium**: Holding others responsible. **Talk in contributed symposium:** From changed expectations to attributions of responsibility. June 2016 Society for Philosophy and Psychology (SPP), Austin, USA **Talk in invited symposium**: A counterfactual simulation model of causal judgments. November 2015 Society for Judgment and Decision Making (SJDM), Chicago, USA **Poster**: A counterfactual simulation model of causal judgments. November 2015 Psychonomics, Chicago, USA **Poster:** Inference of Intention and Permissibility in Moral Judgment (presented by Max Kleiman-Weiner). Nominated for best student poster award. July 2015 Multidisciplinary University Research Initiative (MURI) meeting, Lake Arrowhead, USA **Talk**: A counterfactual simulation model of causal judgments.

| January 2015 Ranch Metaphysics Workshop, Arizona, USA  Talk: Intuitive theories.  August 2014 Modality Workshop Yale, New Haven, USA  Talk: From counterfactual simulation to causal judgment.  July 2014 Cognitive Science Conference (36th), Quebec City, Canada  Talk: From counterfactual simulation to causal judgment.  Poster: Responsibility attributions as counterfactual replacements.  Talk: The order of things (co-author). | vy<br>ted |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Talk: From counterfactual simulation to causal judgment.  July 2014 Cognitive Science Conference (36 <sup>th</sup> ), Quebec City, Canada Talk: From counterfactual simulation to causal judgment.  Poster: Responsibility attributions as counterfactual replacements.                                                                                                                                                                   |           |
| Talk: From counterfactual simulation to causal judgment.  Poster: Responsibility attributions as counterfactual replacements.                                                                                                                                                                                                                                                                                                             |           |
| Talk: Causal supersession (co-author).                                                                                                                                                                                                                                                                                                                                                                                                    |           |
| June 2014 Society for Philosophy and Psychology, Vancouver, Canada <i>Talk</i> : From counterfactual simulation to causal judgment.                                                                                                                                                                                                                                                                                                       |           |
| Nov 2013 Roundtable on Causal Overdetermination, Urbana-Champaign, USA <i>Talk</i> : Causal responsibility and counterfactuals.                                                                                                                                                                                                                                                                                                           |           |
| Nov 2013 New Orleans Workshop on Agency and Responsibility, USA <i>Talk (joint with David Lagnado): A difference-making framework for intuitive judiments of responsibility.</i>                                                                                                                                                                                                                                                          | lg-       |
| Aug 2013 SPUDM conference (24 <sup>th</sup> ), Barcelona, Spain  Talk in symposium: How intentions and deception influence responsibility attributions in groups.  Talk in symposium: A counterfactual model of responsibility attributions in groups                                                                                                                                                                                     |           |
| Aug 2013 Cognitive Science Conference (35 <sup>th</sup> ), Berlin, Germany <b>Poster</b> : Back on track – Backtracking in counterfactual reasoning.                                                                                                                                                                                                                                                                                      |           |
| July 2013 London Reasoning Workshop, London, UK  Talk: Back on track – Backtracking in counterfactual reasoning.                                                                                                                                                                                                                                                                                                                          |           |
| June 2013 PostDocs Share Their Science Event, Boston, USA  *Poster: General principles of causal attribution.                                                                                                                                                                                                                                                                                                                             |           |
| June 2013 Society of Philosophy and Psychology Conference, Providence, USA                                                                                                                                                                                                                                                                                                                                                                |           |
| Aug 2012 Cognitive Science Conference (34 <sup>th</sup> ), Sapporo, Japan  Talk: Noisy Netwons: Unifying process and dependency accounts of causal attribution  Poster: Ping Pong in Church: Productive use of concepts in human probabilistic inference.  Poster: Why blame Bob? Probabilistic generative models for counterfactual reasoning                                                                                            | r-        |
| <b>Poster</b> : Why blame Bob? Probabilistic generative models for counterfactual reasonin and blame attribution (presented by John McCoy and Tomer Ullman).                                                                                                                                                                                                                                                                              | 3         |
| July 2012 International Conference on Thinking, University College London, UK  Invited talk in symposium: Finding fault: Causality and Counterfactuals in Group  Attributions.  Talk: Noisy Netwons: Unifying process and dependency accounts of causal attributions.                                                                                                                                                                     | 1         |

| May 2012  | 'Towards Consilience' Workshop, London Business School, UK                                                                                                                                                                         |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| May 2012  | 'Personal and Shared Intentions' Workshop, MPI Berlin, Germany <i>Invited talk</i> : How intentions and deception influence attributions of responsibility in groups.                                                              |
| Apr 2012  | Postgraduate Peer Group Conference, Cumberland Lodge, UK <i>Talk</i> : Noisy Newtons - People's intuitive understanding of physics explains their causal attributions; 1 <sup>st</sup> prize in the oral presentation competition. |
| Apr 2012  | Tagung experimentell arbeitender Psychologen (TEAP), Mannheim, Germany <i>Talk</i> : Noisy Newtons: Unifying process and dependency accounts of causal attribution.                                                                |
| Jan 2012  | CEU Conference on Cognitive Development, Budapest, Hungary Invited talk in symposium: Noisy Newtons: People's intuitive understanding of physics explains their cause and prevention judgments.                                    |
| Sep 2011  | Experimental Philosophy Workshop, Sheffield, England                                                                                                                                                                               |
| Aug 2011  | SPUDM conference (23 <sup>rd</sup> ), Kingston, England  Talk: On perceived criticality and expected effort.  Talk: Rational order effects in responsibility attributions.                                                         |
| July 2011 | Cognitive Science Conference (33 <sup>rd</sup> ), Boston, USA  Talk: Rational order effects in responsibility attributions.  Poster: Beyond outcomes: The influence of intentions and deception.  Poster: Blame the skilled.       |
| July 2011 | European Association of Social Psychology Conference, Stockholm, Sweden <i>Talk in symposium</i> : Rational order effects in responsibility attributions.                                                                          |
| Mar 2011  | International Conference on Behavioral Decision Making, Israel <b>Poster</b> : Responsibility Attributions in Teams; <b>2</b> <sup>nd</sup> <b>prize</b> in the conference poster competition (presented by Ro'i Zultan).          |
| Oct 2010  | KogWis, Potsdam, Germany Poster: The Allocation of Responsibility amongst Multiple Agents.                                                                                                                                         |
| Sep 2010  | Actual Causation Workshop, Konstanz, Germany                                                                                                                                                                                       |
| Aug 2010  | Cognitive Science Conference (32 <sup>nd</sup> ), Portland, Oregon <i>Poster: The Dice are Cast: The Influence of Intended versus Actual Contributions on Responsibility Attribution.</i>                                          |
| Aug 2010  | Mathematical Psychology Conference, Portland, Oregon                                                                                                                                                                               |
| June 2010 | AXA Talent Day, Paris, France  Poster: The Dice are Cast: The Influence of Intended versus Actual Contributions on Responsibility Attribution.                                                                                     |
| May 2010  | Cognitive Science and Machine Learning Summer School, Sardinia, Italy                                                                                                                                                              |
| Apr 2010  | EPS/SEPEX Joint Conference, Granada, Spain <i>Talk</i> : The Dice are Cast.                                                                                                                                                        |
| Aug 2009  | SPUDM Conference (22 <sup>nd</sup> ), Rovereto, Italy <i>Poster</i> : Allocation of Responsibility amongst Multiple Agents.                                                                                                        |
| July 2009 | Summer Institute, Max Planck Institute Berlin, Germany <b>Poster</b> : Allocation of Responsibility amongst Multiple Agents; <b>2</b> <sup>nd</sup> <b>prize</b> in the <b>poster</b> competition.                                 |
|           |                                                                                                                                                                                                                                    |

June 2009 MICRAC Workshop, Toulouse, France

Talk: Allocation of Responsibility amongst Multiple Agents.

July 2008 PsyPag Conference, Manchester, England

Talk: Presentation of MSc thesis (honorable mention).

## **Invited Presentations**

| invited | Presentations                                                          |                                                            |
|---------|------------------------------------------------------------------------|------------------------------------------------------------|
| 2018    | Visual Attention Lab                                                   | Brigham & Women's Hospital, USA                            |
|         | Northeastern Cognition Area Speaker Series                             | Northeastern University, USA                               |
|         | The Imagination and Modal Cognition Lab (Prof. Felipe De Brigard)      | Duke University, USA                                       |
| 2017    | Cognitive Lunch                                                        | Yale, USA                                                  |
|         | Computational Social Cognition boot camp                               | Harvard, USA                                               |
|         | ConCats seminar series                                                 | NYU, USA                                                   |
|         | Language Learning Lab (Prof. Joshua Hartshorne)                        | Boston College, USA                                        |
|         | Psychology Department Colloquium                                       | Berkeley, USA                                              |
|         | Psychology Department Colloquium                                       | Stanford University, USA                                   |
|         | Cushman & Greene lab meeting                                           | Harvard University, USA                                    |
|         | Behavioral Science Seminar                                             | The University of Chicago Booth<br>School of Business, USA |
| 2016    | Computational Cognitive Neuroscience Lab (Prof. Sam Gershman)          | Harvard University, USA                                    |
|         | Applied Statistics Workshop                                            | Harvard University, USA                                    |
|         | Program for Evolutionary Dynamics                                      | Harvard University, USA                                    |
|         | Center for Adaptive Rationality                                        | Max Planck Institute Berlin, Germany                       |
|         | Language and Cognition seminar series                                  | Harvard University, USA                                    |
|         | Cognition seminar series                                               | Brown University, USA                                      |
| 2015    | Crockett lab (Prof. Molly Crockett)                                    | Oxford University, UK                                      |
|         | London Judgment and Decision Making Seminar                            | University College London, UK                              |
|         | Office of Naval Research                                               | Washington, DC, USA                                        |
| 2014    | Boston Moral Reasoning Group                                           | Boston University, USA                                     |
|         | Social Lunch                                                           | Harvard University, Cambridge, USA                         |
|         | Adaptive Behavior and Cognition Research Group (Prof. Gerd Gigerenzer) | Max Planck Institute, Berlin, Germany                      |
|         | Computation and Cognition Lab (Prof. Noah Goodman)                     | Stanford University, USA                                   |
|         | Lab meeting (Prof. Joshua Knobe)                                       | Yale University, USA                                       |
| 2013    | Moral Cognition Lab (Prof. Joshua Greene)                              | Harvard University, USA                                    |
|         | Morality Lab (Prof. Liane Young)                                       | Boston College, USA                                        |
|         | Sloman Lab (Prof. Steven Sloman)                                       | Brown University, USA                                      |
|         |                                                                        |                                                            |

|      | Early Childhood Cognition Lab (Prof. Laura Schulz)               | Massachusetts Institute of Technology,<br>USA         |
|------|------------------------------------------------------------------|-------------------------------------------------------|
|      | Computational Cognitive Science Lab (Prof. Josh Tenenbaum)       | Massachusetts Institute of Technology,<br>USA         |
| 2012 | Invited Speakers Series                                          | University of Leicester, England                      |
|      | Special Seminar (Dr. Christopher Summerfield)                    | Oxford University, England                            |
|      | Lab meeting (Dr. Ralf Mayrhofer)                                 | University Göttingen, Germany                         |
| 2011 | Computational Cognitive Science Group (Prof. Josh Tenenbaum)     | Massachusetts Institute of Technology,<br>Boston, USA |
|      | CogLunch of the Cognitive Science Department                     | Massachusetts Institute of Technology,<br>Boston, USA |
|      | Lab meeting (Prof. Noah Goodman)                                 | Stanford University, Palo Alto, USA                   |
| 2010 | Research seminar series                                          | Decision Technology, London, England                  |
|      | London Judgement and Decision Making Group                       | University College London, England                    |
|      | Strategic Interaction group seminar (Prof. Werner Güth)          | Max Planck Institute for Economics,<br>Jena, Germany  |
| 2009 | Cognitive and Decision Sciences seminar (Prof. Michael Waldmann) | University Göttingen, Germany                         |
|      | Philosophy of Mind seminar (Prof. Michael Pauen)                 | Humboldt University, Berlin, Germany                  |

## **Teaching Experience**

Tutorial on "Mental models as probabilistic programs" in class 9.66 (Computational Cognitive Science taught by Prof. Josh Tenenbaum).

Tutorial on "Mental models as probabilistic programs" at the Brains, Minds, and Machines summer school in Woods Hole. Teaching assistant for three student projects.

Tutorial on "Mental models as probabilistic programs" at the Brains, Minds, and Machines workshop in San Juan, Puerto Rico.

- 2016 Lecture on "Counterfactual simulation" in class 9.66 (Computational Cognitive Science taught by Prof. Josh Tenenbaum).
- 2015 Kaufman Teaching Certificate Program.
- 2012 UCL MSc lecture: Theoretical frameworks of responsibility attribution.

UCL 1st year undergraduate psychology lab class: Causal attribution.

- $2011 \qquad UCL \ 1^{st} \ year \ undergraduate \ psychology \ lab \ class: \ Responsibility \ attribution.$
- 2010 UCL teaching demonstratorship.

#### Reviews

| Since      | Journal / Conference / Grant                                 | Reviews |
|------------|--------------------------------------------------------------|---------|
| March 2018 | Grant referee for National Science Foundation (NSF) proposal |         |
| Feb 2018   | Psychological Science                                        |         |
| Mar 2017   | Cognitive Psychology                                         |         |

| Mar 2017  | Nature Human Behavior                                            |                                         |
|-----------|------------------------------------------------------------------|-----------------------------------------|
| Dec 2016  | Grant referee for the European Research Council (ERC)            |                                         |
| Sep 2016  | Topics in Cognitive Science                                      |                                         |
| Aug 2016  | Perspectives on Psychological Science                            |                                         |
| Sep 2015  | Social Psychology                                                |                                         |
| July 2015 | Learning and Motivation                                          |                                         |
| May 2015  | The Oxford Handbook of Causal Reasoning                          |                                         |
| Feb 2015  | Society for Philosophy and Psychology Conference                 | <b>##</b>                               |
| Dec 2014  | PLoS ONE                                                         |                                         |
| June 2014 | Journal of Experimental Psychology: Learning, Memory & Cognition |                                         |
| Oct 2013  | Scandinavian Journal of Psychology                               |                                         |
| Aug 2013  | Thinking and Reasoning                                           |                                         |
| Jan 2013  | Journal of Cognitive Psychology                                  |                                         |
| Jan 2013  | Cognitive Science                                                | ₩I                                      |
| Nov 2012  | Topoi – An International Review of Philosophy                    |                                         |
| Nov 2012  | Journal of Experimental Social Psychology                        |                                         |
| Oct 2012  | Oxford Studies of Experimental Philosophy                        |                                         |
| Feb 2012  | Quaterly Journal of Experimental Psychology                      |                                         |
| Oct 2011  | Psychonomic Bulletin and Review                                  |                                         |
| June 2011 | Cognition                                                        | ###                                     |
| Jan 2011  | Cognitive Science Conference Proceedings                         | *************************************** |
|           |                                                                  |                                         |

#### Skills & Interests

Languages German (native), English (fluent), Spanish (basic), French (basic)

Software R, Python, MATLAB, Javascript, html, Flash, Illustrator, Photoshop, Blender, LATEX

Chess, Yoga, Cycling, Tennis, Music, Piano, Guitar, Meditation, Literature **Interests** 

## References

| Prof. Joshua B. Tenenbaum  |
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