

Anselm Rothe

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EDUCATION

2014—2019 Ph.D., Psychology
New York University
Advisors: Todd Gureckis & Brenden Lake

2011—2013 M.Sc., Psychology, *with distinction*
Georg-August-Universität Göttingen

2008—2011 B.Sc., Psychology, *with distinction*
Georg-August-Universität Göttingen

AWARDS & FELLOWSHIPS

2019 Computational Brain & Behavior Outstanding Paper Award by the Society for Mathematical Psychology for the paper *Do people ask good questions?*

2019 Douglas H. and Katharine Fryer Award for Best Doctoral Thesis, Department of Psychology, New York University

2019 Dean's Student Travel Grant, New York University

2017 NIPS Travel Award

2016 Graduate Student Travel Grant for the Emergent Meaning workshop of the annual meeting of the Cognitive Science Society

2016 Fellow of the Summer Institute on Bounded Rationality, incl. Travel Grant

2014—present MacCracken Fellowship, New York University

Summer 2013 German National Academic Foundation research stay abroad scholarship

2008—2013 German National Academic Foundation scholarship

PEER-REVIEWED PUBLICATIONS

Rothe, A., Lake, B., & Gureckis, T. (2019). Asking goal-oriented questions and learning from answers. In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 981-986). Montreal, QB: Cognitive Science Society. [\[PDF\]](#)

Rothe, A., Lake, B., & Gureckis, T. (2018). Do people ask good questions? *Computational Brain & Behavior*, 1, 69-89. [\[PDF\]](#)

Rothe, A., Devereitt, B., Mayrhofer, R., & Kemp, C. (2018). Successful structure learning from observational data. *Cognition*, 179, 266-297. [\[PDF\]](#)

PEER-REVIEWED PUBLICATIONS (CONT.)

Rothe, A., Rich, A., & Li, Z. (2018). Topics and trends in cognitive science. In T. T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Society* (pp. 979-984). Austin, TX: Cognitive Science Society. [\[PDF\]](#)

Bramley, N., Rothe, A., Tenenbaum, J., Xu, F., & Gureckis, T. (2018). Grounding compositional hypothesis generation in specific instances. In T. T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 1390-1395). Austin, TX: Cognitive Science Society. [\[PDF\]](#)

Rich, A., Popp P. O., Halpern D., Rothe A., & Gureckis T. M. (2018). Modeling second-language learning from a psychological perspective. In *Proceedings of the NAACL-HLT Workshop on Innovative Use of NLP for Building Educational Applications* (pp. 223-230). [\[PDF\]](#)

Rothe, A., Lake, B., & Gureckis, T. (2017). Question asking as program generation. In *Advances in Neural Information Processing Systems (NIPS) 30*. [\[PDF\]](#)

Rothe, A., Lake, B., & Gureckis, T. (2016). Asking and evaluating natural language questions. In Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.) *Proceedings of the 38th Annual Conference of the Cognitive Science Society* (pp. 2051-2056). Austin, TX: Cognitive Science Society. [\[PDF\]](#)

Mayrhofer, R., & Rothe, A. (2012). Causal status meets coherence: The explanatory role of causal models in categorization. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.) *Proceedings of the 34th Annual Conference of the Cognitive Science Society* (pp. 743-748). Austin, TX: Cognitive Science Society. [\[PDF\]](#)

PRESENTATIONS

Rothe, A., Lake, B., & Gureckis, T. (2019, July). *Asking goal-oriented questions and learning from answers*. Paper presented at the 41st Annual Conference of the Cognitive Science Society. Montreal, Quebec, Canada.

Invited talk (2019, June) at the *Curiosity, Explanation, & Exploration workshop*, Princeton University.

Invited talk (2019, April) at the *Cog Sci Grad Talks*, Rutgers University.

Invited talk (2018, November) at the *program induction group*, Massachusetts Institute of Technology.

Rothe, A., Rich, A., & Li, Z. (2018, July). *Topics and trends in cognitive science*. Paper presented at the 40th Annual Conference of the Cognitive Science Society, Madison, WI. [\[PDF\]](#)

Invited talk (2018, July) at the *Learning as Program Induction workshop* at the 40th Annual Conference of the Cognitive Science Society [\[PDF\]](#)

Rich, A., Popp P. O., Halpern D., Rothe A., & Gureckis T. M. (2018). *Modeling second-language learning from a psychological perspective*. Poster presented at the NAACL-HLT Workshop on Innovative Use of NLP for Building Educational Applications (BEA), New Orleans, LA. [\[PDF\]](#)

Rothe, A., Lake, B., & Gureckis, T. (2017, December). *Question asking as program generation*. Poster presented at the 31st Annual Conference on Neural Information Processing Systems (NIPS), Long Beach, CA. [\[PDF\]](#)

Rothe, A., Lake, B., & Gureckis, T. (2017, July). *Progress in building a machine that can interesting and informative questions*. Poster presented at the 39th Annual Conference of the Cognitive Science Society, London, UK.

Rothe, A., Lake, B., & Gureckis, T. (2016, August). *Asking and evaluating natural language questions*. Talk presented at the International Conference on Thinking, Providence, RI.

Rothe, A., Lake, B., & Gureckis, T. (2016, August). *Asking and evaluating natural language questions*. Paper presented at the 38th Annual Conference of the Cognitive Science Society, Philadelphia, PA.

Rothe, A., Lake, B., & Gureckis, T. (2015, July). *Asking useful questions: Active learning with rich queries*. Poster presented at the 37th Annual Conference of the Cognitive Science Society, Pasadena, CA.

PRESENTATIONS (CONT.)

Rothe, A., & Mayrhofer, R. (2013, August). *Explanatory reasoning in causal-based categorization*. Poster presented at the 35th Annual Conference of the Cognitive Science Society, Berlin, Germany.

Rothe, A., & Mayrhofer, R. (2012, October). *The role of causal models in causal-based categorization*. Poster presented at the 11th Biannual Conference of the German Cognitive Science Society, Bamberg, Germany.

Rothe, A., & Mayrhofer, R. (2012, April). *Causal status and coherence in causal-based categorization*. Poster presented at the 54th Tagung experimentell arbeitender Psychologen (Conference of Experimental Psychologists), Mannheim, Germany.

PROFESSIONAL SERVICE

2018—present Ad-hoc reviewer for Cognition, Cognitive Science Conference

TEACHING

Spring 2019 Teaching Assistant, *Computational Cognitive Modeling*
for Dr. Todd Gureckis & Dr. Brenden Lake, New York University

Fall 2016 Teaching Assistant, *Cognition*
for Dr. Gregory Murphy, New York University

Spring 2016 Teaching Assistant, *From Illusions to Inference*
for Dr. Weiji Ma, New York University

Fall 2009 &
Fall 2010 Teaching Assistant, *Introduction to Research Methods in Psychology*
for Dr. Uwe Mattler, Universität Göttingen

VOLUNTEERING

2016, 2018, 2019 Poster judge at the Master's Research Conference at New York University