

# 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      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., Devereett, B., Mayrhofer, R., & Kemp, C. (2018). Successful structure learning from observational data. *Cognition*, 179, 266-297. [PDF]
- 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.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 979-984). Austin, TX: Cognitive Science Society. [PDF]

## PEER-REVIEWED PUBLICATIONS (CONT.)

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.

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.

## **PRESENTATIONS (CONT.)**

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