

Bonan Zhao

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EDUCATION

PhD, Psychology, *University of Edinburgh*, Edinburgh
MSc, Logic (Cum Laude), *University of Amsterdam*, Amsterdam
BA, Philosophy, *Tsinghua University*, Beijing

Expected 2023
Aug 2017
July 2015

EXPERIENCE

Open Research Facilitator, *University of Edinburgh*, Edinburgh
Data Scientist, *Screen 6* (Amsterdam startup), Amsterdam

2021-2022
2017-2019

PUBLICATIONS

Working papers

1. **B. Zhao**, N. R. Bramley, and C. G. Lucas. Powering up causal generalization: A model of human conceptual bootstrapping with adaptor grammars. *Under review*, 2022
2. Z. Xia*, **B. Zhao***, T. Quillien, and C. G. Lucas. Dissecting causal asymmetries in inductive generalization. *Under review*, 2022
3. N. Marchant, **B. Zhao**, N. R. Bramley, D. Morales, and S. E. Chaigneau. Categorizing perceived causal events. *Under review*, 2022

Peer-reviewed articles

4. **B. Zhao**, C. G. Lucas, and N. R. Bramley. How do people generalize causal relations over objects? A non-parametric Bayesian account. *Computational Brain & Behavior*, 2021
5. **B. Zhao**, C. G. Lucas, and N. R. Bramley. Building object-based causal programs for human-like generalization. In *Causal Inference & Machine Learning Workshop*. NeurIPS, 2021
6. S. Valentin, **B. Zhao**, C. Jiang, C. G. Lucas, and N. R. Bramley. Symbolic and sub-symbolic systems in people and machines. In *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*, 2021
7. **B. Zhao** and N. R. Bramley. Order effects in one-shot causal generalization. In *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society*. Cognitive Science Society, 2020
8. **B. Zhao**, I. van de Pol, M. Raijmakers, and J. Szymanik. Predicting cognitive difficulty of the deductive mastermind game with dynamic epistemic logic models. In *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*. Cognitive Science Society, 2018
9. V. Capraro, J. Sippel, **B. Zhao**, L. Hornischer, M. Savary, Z. Terzopoulou, P. Faucher, and S. F. Griffioen. People making deontological judgments in the trapdoor dilemma are perceived to be more prosocial in economic games than they actually are. *PLOS One*, 2018
10. Z. Terzopoulou, A. Solaki, and **B. Zhao**. Logic of closeness revision: Challenging relations in social networks. In *Proceedings of the ESSLLI 2016 Student Session*. 28th European Summer School in Logic, Language & Information, Bozen-Bolzano, Italy, 2016

Posters

11. **B. Zhao**, C. G. Lucas, and N. R. Bramley. Building object-based causal programs for human-like generalization. Poster presented at Causal Inference & Machine Learning Workshop, NeurIPS, 2021
12. **B. Zhao** and N. R. Bramley. Order effects in one-shot causal generalization. Poster presented at the 42nd Annual Meeting of the Cognitive Science Society, 2020
13. **B. Zhao**, I. van de Pol, M. Raijmakers, and J. Szymanik. Predicting cognitive difficulty of the deductive mastermind game with dynamic epistemic logic models. Poster presented at the 40th Annual Meeting of the Cognitive Science Society, Madison, WI, USA, 2018
14. Z. Terzopoulou, A. Solaki, and **B. Zhao**. Logic of closeness revision and opinion-closeness revision. Poster presented at the 12th Conference on Logic and the Foundations of Game and Decision Theory (LOFT), Maastricht, 2016

Organized workshop

15. S. Valentin, **B. Zhao**, C. Jiang, C. G. Lucas, and N. R. Bramley. Symbolic and sub-symbolic systems in people and machines. Workshop at the 43rd Annual Meeting of the Cognitive Science Society, 2021

INVITED TALKS

Logic and Interactive Rationality, University of Amsterdam, virtual
London Judgment and Decision Making Seminar, London
Causality in Cognition Lab, Stanford University, virtual
Computational Principles of Intelligence Lab, MPI Tübingen, virtual

Mar 2022
Mar 2022
Feb 2022
July 2021

DTU Compute , Technical University of Denmark, Copenhagen	Oct 2017
Donders Institute for Brain, Cognition and Behaviour , Nijmegen	May 2017
Cool Logic , Institute for Logic, Language and Computation, Amsterdam	Apr 2016

CONFERENCE & WORKSHOP PRESENTATIONS

Causal Inference & Machine Learning: Why now? , workshop at NeurIPS, virtual	Dec 2021
Symbolic and sub-symbolic systems in people and machines , workshop at CogSci 2021, virtual	July 2021
International Conference of Thinking (ICT 2020) , virtual	June 2021
CogSci 2020 , virtual	Aug 2020
CogSci 2018 , Madison, WI, USA	July 2018
LOFT 2016 , Maastricht, The Netherlands	July 2016
LABEX CIMI Pluridisciplinary Workshop on Game Theory , Toulouse, France	Nov 2015

AWARDS & SCHOLARSHIPS

Research Support Grants , support research travel and payment of participants, <i>University of Edinburgh</i>	2021,2022
Postgraduate Research Award , international rate tuition fee and stipend, <i>University of Edinburgh</i>	2019-2022
Springer Best Paper Award , <i>28th European Summer School in Logic, Language and Information</i>	2016
Amsterdam Excellence Scholarship , <i>University of Amsterdam</i>	2015-2017
National Merit Scholarship , <i>Ministry of Education</i> , PRC	2015
Dean's Award , <i>Tsinghua University</i>	2014

TEACHING

Tutor , <i>University of Edinburgh</i> , Edinburgh	2020-2022
<ul style="list-style-type: none"> • Causal Cognition • Univariate Statistics and Methodology using R • Logic 1 	
Mentor , <i>HackYourFuture</i> , free refugee coding school (Amsterdam-based initiative)	2018-2019
<ul style="list-style-type: none"> • Git and CLI (lead lecturer) • React.js (TA) 	

MENTORING

Zeyu Xia	MSc Informatics, University of Edinburgh	2021
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SKILLS

Computer skills	Python, R, JavaScript/HTML/CSS, SQL, L ^A T _E X, Git, CLI
Languages	Mandarin Chinese (native), English (fluent), Japanese, Dutch