

# Bonan Zhao

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## EDUCATION

**PhD, Psychology**, *University of Edinburgh*, Edinburgh

Expected 2023

**MSc, Logic (Cum Laude)**, *University of Amsterdam*, Amsterdam

Aug 2017

**BA, Philosophy**, *Tsinghua University*, Beijing

July 2015

## EXPERIENCE

**Open Research Facilitator**, *University of Edinburgh*, Edinburgh

2021-2022

**Data Scientist**, *Screen 6* (Amsterdam startup), Amsterdam

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*. 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, 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, The Netherlands, 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

<b>Logic and Interactive Rationality</b> , University of Amsterdam, virtual	Mar 2022
<b>London Judgment and Decision Making Seminar</b> , London, UK	Mar 2022
<b>Causality in Cognition Lab</b> , Stanford University, virtual	Feb 2022
<b>Computational Principles of Intelligence Lab</b> , MPI Tübingen, virtual	July 2021
<b>DTU Compute</b> , Technical University of Denmark, Copenhagen, Denmark	Oct 2017
<b>Donders Institute for Brain, Cognition and Behaviour</b> , Nijmegen, The Netherlands	May 2017
<b>Cool Logic</b> , Institute for Logic, Language and Computation, Amsterdam, The Netherlands	Apr 2016

## CONFERENCE & WORKSHOP PRESENTATIONS

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

## AWARDS & SCHOLARSHIPS

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

## TEACHING

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

## MENTORING

<b>Zeyu Xia</b>	MSc Informatics, University of Edinburgh	2021
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## SKILLS

<b>Computer skills</b>	Python, R, JavaScript/HTML/CSS, SQL, L <sup>A</sup> T <sub>E</sub> X, Git, CLI
<b>Languages</b>	Mandarin Chinese (native), English (fluent), Japanese, Dutch