Bonan Zhao

b.zhao@ed.ac.uk

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, Edinburgh2021-2022Data Scientist, Screen 6 (Amsterdam startup), Amsterdam2017-2019

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
- 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, Lucas C. G., 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
- 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**, Lucas C. G., 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, Lucas C. G., 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	Mar 2022
London Judgment and Decision Making Seminar, London	Mar 2022
Causality in Cognition Lab, Stanford University, virtual	Feb 2022
Computational Principles of Intelligence Lab, MPI Tübingen, virtual	July 2021

Donders Institute for I	cal University of Denmark, Copenhagen Brain, Cognition and Behaviour, Nijmegen Logic, Language and Computation, Amsterdam	Oct 2017 May 2017 Apr 2016
Causal Inference & Ma Symbolic and sub-sym International Conference CogSci 2020, virtual CogSci 2018, Madison, V LOFT 2016, Maastricht,		Dec 2021 July 2021 June 2021 Aug 2020 July 2018 July 2016 Nov 2015
Postgraduate Research Springer Best Paper A Amsterdam Excellence	nts, support research travel and payment of participants, University of Edinburgh Award, international rate tuition fee and stipend, University of Edinburgh award, 28th European Summer School in Logic, Language and Information e Scholarship, University of Amsterdam rship, Ministry of Education, PRC	2021,2022 2019-2022 2016 2015-2017 2015 2014
	and Methodology using R	2020-2022
 Logic 1 Mentor, Hack Your Future Git and CLI (lead lect React.js (TA) 	e, free refugee coding school (Amsterdam-based initiative) turer)	2018-2019
MENTORING Zeyu Xia	MSc Informatics, University of Edinburgh	2021
SKILLS Computer skills Languages	Python, R, JavaScript/HTML/CSS, SQL, IATEX, Git, CLI Mandarin Chinese (native), English (fluent), Japanese, Dutch	