

# David Strohmaier

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## Work Experience

2019–Ongoing **Research**

### Associate

University of Cambridge  
ALTA Institute  
NLP technologies for language learning

2021–22 **Supervisor: Prolog Course**

Robinson College  
University of Cambridge

2016 **Internship**

Hamburg Institute for  
Social Research (HIS)

2013–14 **Student Assistant**

University of Göttingen

## Awards & Grants

2018 Postgraduate Researcher  
Experience Programme

2015–18 AHRC Competition  
Studentship

2015 Best Social Science BA  
Diss. University of  
Göttingen

2013 Niedersachsenstipendium

2011 Deutschlandstipendium

## Selected Projects

2022 **Modelling Complexity**  
Using pymc to model  
lexical complexity datasets

2020–21 **WSD Systems**  
Multiple Word-Sense  
Disambiguation Systems

2018 **Adaptive Utility**  
Interactive visualisation of  
motivational change  
Technologies: Python,  
Jupyter notebook.

## Scientific Interests

- Modelling Cognitive Processes
- Deep Learning
- Decision Theory
- Bayesian Methods

## Education

January 2023 – Ongoing	<b>PhD in Computer Science</b>	University of Cambridge Investigating second language acquisition using transformers
2018–19	<b>MPhil in Advanced Computer Science</b>	University of Cambridge Awarded with Distinction
2015–18	<b>PhD in Philosophy</b>	University of Sheffield Without Corrections
2014–15	<b>MA in Philosophy</b>	University of Sheffield Awarded with Distinction
2012–14	<b>BA in Philosophy and Sociology</b>	University of Göttingen
2011–14	<b>BA in Sociology</b>	University of Göttingen

## Skills

Python pyTorch numpy Transformers spaCy sklearn pymc Anaconda  
Prolog emacs Git LaTeX

## Publications

### Books

2024 Strohmaier, D., Messerli, M.. Preference Change. *Cambridge University Press*.

### Journal Papers & Proceedings

- 2023 Wimmer, S., Strohmaier, D. Contrafactuals and Learnability: An Experiment with Propositional Constants. *Post-Proceedings of Logic and Engineering of Natural Language Semantics 19*.
- 2022 Wimmer, S., Strohmaier, D. Contrafactuals and Learnability. *Amsterdam Colloquium*.
- 2022 Tyen, G., Strohmaier, D. (equal contribution) A Category Theory Framework for Sense Systems. *GLOBALEX 2022 @ LREC*.
- 2021 Yuan, Z., Tyen, G., Strohmaier, D. Cambridge at SemEval-2021 Task 1: An Ensemble of Feature-Based and Neural Models for Lexical Complexity Prediction. *SemEval-2021*.
- 2021 Cambridge at SemEval-2021 Task 2: Neural WiC-Model with Data Augmentation and Exploration of Representation. *SemEval-2021*. Model achieved best results on some tracks.
- 2021 Strohmaier, D. Organisation as Computing Systems. *Journal of Social Ontology*.
- 2021 Strohmaier, D. Ontology, Neural Networks, and the Social Sciences. *Synthese*.
- 2020 Strohmaier, D., Gooding, S., Taslimipour, S., Kochmar, E. SeCoDa: Sense Complexity Dataset. *LREC 2020*.
- 2020 Strohmaier, D. Social-Computation-Supporting Kinds. *Canadian Journal of Philosophy*.
- 2020 Strohmaier, D. Two Theories of Group Agency. *Philosophical Studies*.
- 2018 Strohmaier, D. Group Membership and Parthood. *Journal of Social Ontology*.

### Book Reviews

- 2021 Strohmaier, D. Review of Richard Pettigrew's "Choosing for Changing Selves". *The Philosophical Quarterly*.
- 2019 Strohmaier, D. Review of Richard Bradley's "Decision Theory with a Human Face". *Philosophical Psychology*.