

# Guy Aglionby

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15 JJ Thomson Avenue, Cambridge, CB3 0FD, UK

## EDUCATION

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**University of Cambridge** 2018 – 2022 (expected)

Ph.D. Computer Science

- Supervisor: Prof. Simone Teufel.
- Working thesis title: Interpretable common sense reasoning using knowledge graphs.
- Developed new ontology for storing common sense information.
- Examining how models use knowledge graphs to answer questions, including via explanations.
- Homerton College Charter Graduate Award.

**University of Cambridge** 2017 – 2018

M.Phil. Advanced Computer Science

Distinction

- Supervisors: Dr. Helen Yannakoudakis, Jean Maillard.
- Thesis title: Modelling polysemy in distributional semantic models.
- Computer Laboratory scholarship (one of eight awarded).
- Homerton College Master's Prize for distinguished M.Phil. achievement.

**University of Bristol** 2014 – 2017

B.Sc. Computer Science

1st Class

## EMPLOYMENT

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### Cambridge Spark

Principal Teaching Fellow (part-time)

2022 – present

Teaching Fellow (part-time)

2021–2022

- Developing and delivering teaching material, and mentoring individual projects.
- Topics range from introduction to programming to advanced natural language processing.

### Amazon

Autumn 2020

Applied Science Intern

- Developed a new method for knowledge extraction to grow Alexa's knowledge graph.

### Expedia

Summer 2017

Software Developer Intern

- Evaluated requirements for, planned, and delivered tool to facilitate communication between marketing and development groups. Responsible for briefing two new developers on the project.

### Amazon

Summer 2016

Software Development Engineer Intern

- Improved visualisations in performance measurement tooling after identifying usability problems, requiring efficient manipulation of large amounts of structured data.

### Netcraft

Summer 2015

Internet Services Developer Intern

- Sole responsibility for developing company watch face for Android Wear devices.

## PROFESSIONAL ACTIVITIES

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- **Technical co-chair:** Conference for Truth and Trust Online (TTO) 2020.
- **Program committee:** ACL ARR '22; EMNLP '22; TTO '22; AKBC '22, '21; RepL4NLP '21, '20.
- **NLP Group seminar organiser,** University of Cambridge, 2019 – 2021.
- **Conference volunteer:** ACL 2020 (recognised as significant contributor); ICLR 2020.
- **Open source contributor:** Zotero.

## PUBLICATIONS

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- **Identifying relevant common sense information in knowledge graphs.** Guy Aglionby, Simone Teufel. *In Proceedings of the First Workshop on Commonsense Representation and Reasoning (CSR), 2022, Dublin, Ireland.*
- **Using machine learning to create a repository of judgments concerning a new practice area: a case study in animal protection law.** Joe Watson, Guy Aglionby, Samuel March. *Artificial Intelligence and Law (2022).*
- **CAMsterdam at SemEval-2019 Task 6: Neural and graph-based feature extraction for the identification of offensive tweets.** Guy Aglionby, Christopher Davis, Pushkar Mishra, Andrew Caines, Helen Yannakoudakis, Marek Rei, Ekaterina Shutova, Paula Buttery. *In Proceedings of the International Workshop on Semantic Evaluation 2019 (SemEval 2019), Minneapolis, USA.*

## TALKS & PRESENTATIONS

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- **Meaningful relations in a common-sense knowledge graph**  
*Cambridge Language Sciences Annual Symposium, November 2020.*
- **Which laws should go? Helping social scientists analyse public opinion with NLP**  
*PyData Sofia, June 2020.*
- **Interpretable methods for automatic textual understanding**  
*Homerton College Research Supper Series, May 2019.*
- **Modelling polysemy in distributional semantic models**  
*Cambridge Language Sciences Annual Symposium, November 2018.*

## TEACHING

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### University of Cambridge

*Research Project Supervisor, Pembroke College Summer Research Programme 2021.*

*Lead Demonstrator*

- Machine Learning and Real-world Data (2020).
- Natural Language Processing (2019, 2018).
- Demonstrator*
- Scientific Computing (2020, 2019).
- Data Science: Principles and Practice (2019).
- Machine Learning and Real-world Data (2019).
- Sutton Trust Summer School (2019).
- Overview of Natural Language Processing (Master's) (2018).
- Supervisor (small group teaching)*
- Machine Learning and Real-world Data (2021, 2020, 2019).
- Scientific Computing (2021).

### Long Road Sixth Form College, Cambridge

- Classroom assistant for A Level Computer Science (2017).

## VOLUNTEER ROLES

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- **President**, University of Cambridge Kickboxing Society, 2019 – 2020.
- **Events officer**, Homerton College graduate student union, 2018 – 2019.
- **President**, University of Bristol Taekwondo Society, 2016 – 2017.

## TECHNICAL SKILLS

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<b>Main experience</b>	Python, Java, Javascript, SQL, Git, HTML, CSS
<b>Limited experience</b>	C, C#, Bash
<b>Python libraries</b>	PyTorch, Transformers, Pandas, Scikit-Learn, NetworkX, NumPy, Keras