



Sian Gooding

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EDUCATION

- **PhD in Computer Science** *Current position*
UNIVERSITY OF CAMBRIDGE *2019 – 2022*
My PhD focuses on building machine learning models for automatic text simplification, with a particular emphasis on the integration of eye tracking data to create humanistic models of text comprehension.
- **MPhil Advanced Computer Science** *Distinction (86%)*
UNIVERSITY OF CAMBRIDGE *2017 – 2018*
Ranked in the top 5% of the year and won the Google research thesis award. I specialised in Natural Language Processing, Deep Learning and Machine Learning.
- **BSc in Computer Science** *First Class Honours (80%)*
UNIVERSITY OF BIRMINGHAM *2013 – 2016*
Elective focus: Machine Learning, Natural Language Processing, Nature Inspired Optimisation, Compilers.

SCHOLARSHIPS & AWARDS

- **Harding Distinguished Postgraduate Scholarship** *2019*
Fully-funded Cambridge Scholarship for the most talented PhD students from the UK and worldwide
- **Google Best Thesis Award** *2018*
Award for highest ranked Cambridge Advanced Computer Science MPhil thesis
- **Cambridge Graduate Tutors' Award** *2018*
Graduate award for distinguished performance at MPhil
- **ACL Shared Task Winner** *2018*
Developed winning complex word identification system in an international shared task
- **Cambridge Computer Laboratory MPhil Scholarship** *2017*
One of eight students to receive a 2017 scholarship for the MPhil course

PUBLICATIONS

- GOODING, S., AND KOCHMAR, E. Recursive context-aware lexical simplification. In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)* (2019) [Link](#)
- GOODING, S., AND KOCHMAR, E. Complex word identification as a sequence labelling task. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics* (2019) [Link](#)
- GOODING, S., KOCHMAR, E., SARKAR, A., AND BLACKWELL, A. Comparative judgments are more consistent than binary classification for labelling word complexity. In *Proceedings of the 13th Linguistic Annotation Workshop* (2019) [Link](#)
- GOODING, S., AND BRISCOE, T. Active learning for financial investment reports. In *Proceedings of the Second Financial Narrative Processing Workshop (FNP 2019)* (2019) [Link](#)
- GOODING, S., AND KOCHMAR, E. CAMB at CWI shared task 2018: Complex word identification with ensemble-based voting. In *Proceedings of the Thirteenth Workshop on Innovative Use of NLP for Building Educational Applications* (2018) [Link](#)

PROFESSIONAL EXPERIENCE

- **Data Science Teacher**
CAMBRIDGE SPARK *Present*
Cambridge Spark provides data science training for professionals, I co-teach the Natural Language Processing with Python on the Advanced Data Science course.
- **Research Assistant**
UNIVERSITY OF CAMBRIDGE *2018*
My research was focused on active learning techniques for machine learning algorithms, applied to the financial domain. I additionally published papers at multiple top tier venues on text simplification.
- **Technology Graduate Scheme**
TESCO PLC *2017*
During the one year graduate scheme I specialised in data science leadership. I worked on a wide variety of machine learning projects, including a placement in Bangalore as a data science engineer.
- **Machine Learning Engineer**
LLOYD'S BANK *2015*
I spent four months as a machine learning engineer at Lloyd's Bank. During this time, I designed and implemented a system to predict customer energy usage, using semi-supervised learning, which could generated personalised saving strategies for customers.

SELECTED TALKS

Neural Text Simplification - *Cambridge Computer Laboratory TechTalk 2019*

Contextual Text Simplification - *Cambridge Assessment 2019*

Active Learning: Data Quality over Quantity - *Cambridge Data Science Symposium 2018*

Complex Word Identification - *Oxbridge Women in Computer Science 2018*

ACADEMIC ROLES

- **Conference Reviewer**
Reviewed for top-ranked international conferences and workshops, including ACL, NAACL and BEA
- **Practical Demonstrator**
Data Science: principles and practice, Part II CST course, Computer Laboratory, University of Cambridge, 2019
Overview of Natural Language Processing, MPhil course, Computer Laboratory, University of Cambridge, 2018
- **Course Supervisor**
Formal Models of Language, Part IB CST course, Computer Laboratory, University of Cambridge 2019
- **Member of Cambridge Computer Lab Faculty board**
The faculty board oversees the work of the Computer Laboratory, I acted as MPhil representative in 2018
- **Fitzwilliam Entrepreneur Society (FES) Committee**
FES organises entrepreneurial events and talks for five of the Cambridge Hill Colleges

PROGRAMMING SKILLS

• **Languages:** Python, Java, SQL, MATLAB

Technologies: Hadoop, Android, Tensorflow, PyTorch

REFERENCES

Professor Ted Briscoe
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Computer Laboratory
University of Cambridge

Dr. Ekaterina Kochmar
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