Christopher Jack Bryant

NLP Research Scientist

Email: chrisb@rfc.co.uk

Summary

I have extensive research experience in Natural Language Processing and data engineering. I am one of the leading authorities on automatic Grammatical Error Detection and Correction (GEC) and have spent much of my career developing solutions for inter-disciplinary language problems using machine learning and high-quality data.

Research Experience

Postdoctoral Research Associate
01/2019 - Present

Institute for Automated Language Teaching and Assessment (ALTA)
University of Cambridge, UK

- Innovated and maintain the most popular toolkit for evaluating progress in GEC (ERRANT).
- Led the organisation of a high-profile international shared task on GEC (BEA-2019).
- Developed various methods for artificial data generation and automatic annotation.
- Experienced with processing codeswitched data (sentences containing more than one language).

Principal Applied Research Scientist
04/2022 - 12/2022

Reverso, Paris, France (Remote)

- Guided the development of the Ginger grammar checker (algorithm, testing, documentation).
- Developed a state-of-the-art, neural sequence-labelling grammar checker from scratch.

Research Consultant
01/2021 - 04/2021

Self-Employed, UK

- Built a system to annotate sustainability reports with company name, year and report type.

Research Assistant
01/2014 - 08/2015

National University of Singapore, Singapore

- Recruited and trained annotators to manually annotate high-quality data for machine learning.
- Annotated the official test data for the CoNLL-2015 shared task on discourse parsing.

Research Intern
07/2012 - 09/2012

University of Edinburgh, UK
University of the Basque Country, Spain

- Recorded speech data in a professional recording studio.
- Segmented and carried out Conversation Analysis of speech data for research purposes.

Education

PhD Computer Science, University of Cambridge, UK	09/2015 - 12/2018
MSc Speech and Language Processing, University of Edinburgh, UK	09/2012 - 09/2013
MA (Hons) Chinese and Linguistics, University of Edinburgh, UK	09/2008 - 09/2012

Other Achievements and Professional Activities

- A strong publication record (>15 papers) in top-tier Natural Language Processing conferences including ACL, EMNLP and COLING with over 1300 citations.
- A track record of internationally-invited talks tailored to academic, technical and general audiences respectively.
- Leadership of an inter-disciplinary group meeting series (and various projects) including members from Linguistics, Computer Science, Engineering and Education.
- Experience supervising undergraduate and postgraduate final-year projects.
- Regular reviewer for conferences and journals to stay up-to-date with the field.

Awards, Grants and Scholarships

Cambridge Language Sciences Research Incubator Fund	2019, 2021
Churchill College Conference Grants	2016 - 2018
Automated Language Teaching and Assessment (ALTA) PhD Studentship	2015 - 2018
Edinburgh Santander Masters Scholarship	2012 - 2013

General Skills

Computing: Python, Bash, LaTeX, Huggingface, spaCy, NLTK, Gradio, Git

Human Languages:

Native	English
Intermediate	Mandarin Chinese, Spanish
Upper Beginner	Italian, French
Beginner	Japanese, Vietnamese

Links

Website:	https://chrisjbryant.github.io/
Github:	https://github.com/chrisjbryant
Google Scholar:	https://scholar.google.co.uk/citations?user=jMq-Pg4AAAAJ
LinkedIn:	https://www.linkedin.com/in/christopher-bry4nt/