

Christopher Jack Bryant

Natural Language Processing Research Scientist

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Summary

I have extensive research experience in Natural Language Processing and AI. 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

Staff AI Research Scientist	01/2026 - Present
Applied AI Research Scientist	03/2023 - 12/2025
<i>Writer, Inc. San Francisco, California, USA (Remote)</i>	

- Responsible for upgrading and improving Writer's many style guide services, where inference speed and response time are a high priority.
- Developed a seq2seq sentence-simplification service from scratch using artificial data.
- Developed novel sequence-labelling solutions for several types of grammatical errors.
- Consolidated and improved performance of services for passive-to-active voice conversion, resolving split infinitives, replacing hidden verbs, gender-neutral language, synonym suggestions, language identification, etc.
- Adhered to best CI/CD software practices (unit tests, Docker image optimisation, load testing, resource management, etc.)

Visiting Researcher	03/2023 - Present
Postdoctoral Research Associate	01/2019 - 03/2023
<i>Institute for Automated Language Teaching and Assessment (ALTA)</i>	
<i>University of Cambridge, UK</i>	

- 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
<i>Reverso, Paris, France (Remote)</i>	

- 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
<i>Self-Employed, UK</i>	

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

Research Assistant	01/2014 - 08/2015
<i>National University of Singapore, Singapore</i>	

- 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 (>25 papers) in top-tier Natural Language Processing conferences including ACL, EMNLP and COLING with over 3200 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 as well as junior industry colleagues.
- 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, optimum, onnxruntime, vllm, TensorRT-LLM, spaCy, NLTK, Git, Docker, GCP, artillery

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/>