

EDUCATION

2019–present	PhD in Computer Science <i>University of Cambridge</i> Research areas: <ul style="list-style-type: none">• Natural language generation• Chatbots & dialogue systems• Text complexity & NLP for second language learning <ul style="list-style-type: none">• Working title: Building adaptive chatbots for second language learning• Supervised by Prof. Paula Buttery (NLIP Group)• Funded by the ALTA Institute at University of Cambridge
2017–2018	MPhil in Advanced Computer Science <i>University of Cambridge</i> <ul style="list-style-type: none">• Title: Supervised attention for neural error correction
2014–2017	BA in Linguistics (1st class) <i>University of Cambridge</i> <ul style="list-style-type: none">• Title: Profiling English learner speech in terms of proficiency

SKILLS

Machine learning & NLP

Python: PyTorch, scikit-learn, SpaCy, Huggingface Transformers, NLTK, pandas, Optuna, ParlAI, Anaconda

Web development

JavaScript: TypeScript, React, D3, jQuery
Python: Flask

Software engineering

Git, AWS, Docker

Languages

English, Cantonese, Mandarin (*basic*)

EMPLOYMENT

2022	GitHub — <i>Summer Research Engineer</i> <ul style="list-style-type: none">• Part of the Copilot team at GitHub Next• Conducted research into evaluation methods of neural code generation• Designed and implemented telemetry for Copilot to aid research
2016–2019	Africa's Voices / Well Told Story — <i>Data Scientist</i> <ul style="list-style-type: none">• Built a machine learning pipeline for sentiment analysis in Sheng, a low-resource African language• Created a user interface to crowdsource and visualise data• Blog posts: http://www.africasvoices.org/ideas/how-to-teach-a-robot-sheng/ http://www.africasvoices.org/ideas/computational-linguistics/

RESEARCH EXPERIENCE

Towards an open-domain chatbot for language practice

Tyen, G., Brenchley, M., Caines, A., & Buttery, P.

Paper at 17th BEA Workshop @ NAACL 2022

A category theory framework for sense systems

Strohmaier, D., Tyen, G. (equal contribution)

Paper at Globalex Workshop on Linked Lexicography @ LREC 2022

An ensemble of feature-based and neural models for lexical complexity prediction

Yuan, Z., Tyen, G., & Strohmaier, D.

Paper at 15th SemEval Workshop @ ACL-IJCNLP 2021

Automatic textual analysis of a low resource mixed language

Tyen, G., Kerr, E. J., Lopes, C., & Mirzoyants, A.

Presentation at Language in Africa SIG @ BAAL 2018