

EDUCATION

2019–present

PhD in Computer Science*University of Cambridge***Research areas:**

- Natural language generation
- Chatbots & dialogue systems
- Working title:
Building adaptive chatbots for second language learning
- Supervised by Prof. Paula Buttery (NLIP Group)
- Funded by Cambridge University Press & Assessment via the ALTA Institute

2017–2018

MPhil in Advanced Computer Science*University of Cambridge*

2014–2017

BA in Linguistics (1st class)*University of Cambridge*

EMPLOYMENT

2023

Google — *Research Intern*

- Investigated self-correction and reasoning as part of Google Research
- Published a [paper](#) (preprint, under review), a [blogpost](#) on the Google Research blog, and a [dataset](#)

2022

GitHub — *Summer Research Engineer*

- Part of the Copilot team at GitHub Next
- Conducted research into evaluation methods of neural code generation

2016–2019

Africa's Voices Foundation — *Data Scientist*

- Built a machine learning pipeline for sentiment analysis in Sheng, a low-resource Kenyan language
- Created a user interface to crowdsource and visualise data
- Blog posts: [1](#), [2](#)

SKILLS

Machine learning & NLPPython: PyTorch, scikit-learn, SpaCy,
Huggingface Transformers, NLTK,
pandas, ParlAI, Anaconda**Web development**JavaScript: TypeScript, React,
D3, jQuery
Python: Flask**Software engineering**Git / GitHub, AWS, Google Cloud
Compute Engine**Languages**English, Cantonese,
Mandarin (*basic*)

RESEARCH

LLMs cannot find reasoning errors, but can correct them given the error location*Tyen, G., Mansoor, H., Chen, P., Mak, T., & Cărbune, V.*

Paper

ACL 2024 (Findings)

Towards an open-domain chatbot for language practice*Tyen, G., Brenchley, M., Caines, A., & Buttery, P.*

Paper

17th BEA Workshop
@ NAACL 2022**A category theory framework for sense systems***Strohmaier, D. & Tyen, G. (equal contribution)*

Paper

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

15th SemEval Workshop
@ ACL 2021**LLM chatbots from the perspective of a non-native speaker***Tyen, G., Caines, A., & Buttery, P.*Paper
submissionUnder review at
SIGDial 2024**Building chatbots for second language learning***Tyen, G.*

Talk

Education Research Showcase
@ CST Cambridge University