GLADYS TYEN

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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

SKILLS

Machine learning & NLP
Python: 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)*

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

RESEARCH

LLMs cannot find reasoning errors, but can correct them! *Tyen, G., Mansoor, H., Chen, P., Mak, T., & Cărbune, V.*	arXiv preprint	Under review @ ACL 2024 (ARR) Scores: 4/4/3.5
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
Building chatbots for second language learning *Tyen, G.*	Talk	Education Research Showcase @ CST Cambridge University
Automatic textual analysis of a low resource mixed language *Tyen, G., Kerr, E. J., Lopes, C., & Mirzoyants, A.*	Talk	Language in Africa SIG @ BAAL 2018