

# SUHENG(PETER) QIAN

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in <https://www.linkedin.com/in/suheng-qian-242013170/>

🔗 <https://github.com/dopestdope123/>

## EDUCATION

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### McGill University

*Sep 2018 - Dec 2022*

*Bachelor of Arts(Double Major in Computer Science and Linguistics)*

Relevant Coursework: Natural Language Processing, Machine Learning, Computational Linguistics, Probability, Linear Algebra, Linguistic Data Analysis, Functional Programming, Cloud Computing, Full-Stack Development, Syntax, Semantics

## SKILLS

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**Languages:** English, Mandarin, Cantonese, French

**Programming:** Python, Java, C, C#, R, Clojure, SQL, OCaml, Javascript, CSS, HTML, Kotlin, LaTeX

**Software & Tools:** MS Office, Tableau, Praat, Linux, Bash, Git, Kubernetes, Liberalist, MiniVAN

**Libraries:** Pytorch, Tensorflow, HuggingFace, Scikit-learn, numpy, matplotlib, pandas, ggplot, React, Django

**Interests:** Language Modelling, Machine Learning, Data Analysis, Natural Language Processing, Full-Stack Web Development, Cloud Application Development, Data Visualization

## RESEARCH

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**Comparative Studies of Rhymes in Cantonese and Mandarin in the Department of Linguistics, McGill University**

*September 2021 - December 2021*

- Designed the first comparative perception studies to evaluate the rhyming judgement of Cantonese speakers and Madarin speakers
- Acquired programming skills in R and data analytics skills
- Published on the Orientation Journal(Peer-reviewed McGill East Asian studies Journal)
- Link to the paper and R-script is available on my Github repo

**Genealogic Approach to Low-Resource Language Modelling in the Department of Linguistics/MILA, McGill University**

*January 2022 - April 2022*

- Improved the performance of multilingual BERT on low resource languages on fine-tuned syntactic-related tasks from a Genealogic approach
- Provided an alternative for researchers with limited amount of data and resources to pre-train the model
- Used pandas for data analysis and matplotlib for data visualization
- Jupyter notebook and datasets for this study is available on my Github repo

## VOLUNTEER EXPERIENCE

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**2021 Liberal general election campaign in Ville-Marie-Sud-Ouest-Ile-des-Soeurs and Outremont**

*August 2021 - September 2021*

*Volunteer*

- Distributed leaflets in multiple neighborhoods in the electoral district
- Assisted the campaign to reach out to Mandarin and Cantonese-speaking voters
- Assisted other campaigns with voting data entry

**Secondary School's United Nations Symposium**

*November 2021 & November 2022*

*Committee Staffer*

- Assisted participants with proofreading for the documents they wrote
- Assisted Chairs with procedural issues during the conference
- Using Excel to assist the Dais with award evaluations

**McGill MUN 2022**

*February 2022*

*Committee Staffer*

- Assisted participants with proofreading for news articles in the conference
- Assisted Chairs with procedural issues during the conference