# Jiayao Zhang

APPLY TO: DEVOPS INTERN · SOFTWARE DEVELOPER INTERN · SPEECH SCIENCE INTERN
*#2006, 2021 Atwater Ave. Montreal, Quebec, Canada, H3H 2P2*

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## Education

**McGill University**                                                                                          *Montreal, Canada*
B.A./BSC. MAJOR IN COGNITIVE SCIENCE, MINOR IN LINGUISTICS                          *Sept. 2018-Exp.Grad Apr. 2021*
- cGPA 3.70

## Work Experience

**PanPass CO.,LTD.**                                                                                              *Beijing, China*
JAVA WEB DEVELOPMENT SUMMER INTERN                                                          *June. 2017 - July. 2017*
- Participate in a program for Sinopec website as backend development intern.
- Test a Wechat mini program for a beverage store that about to release as a customer role.

## Skills

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|---|---|
| **Languages** | Java, C, Ocaml, Python, Bash, LaTeX |
| **Tools** | Git, Heroku, Travis CI, Gradle, Maven, IntelliJ, Eclipse, Typora, Vim, Spring Boot, make, relational database, SQL |
| **Linguistic related knowledge** | Syntax, Phonetics, Language acquisition, Praat |

## Related Courses

**COMPUTER SCIENCE**
- Intro to computer science, Logic and computability, Probability, Programming Lang & Paradigms, Discrete structures, Algorithm and data structure, Intro to software systems, Applied machine learning, Intro to software engineering, Artificial intelligence, Database systems, Linear algebra

**LINGUISTICS**
- Intro to linguistics, Syntax, Phonetics.

## Academic Experience

**Implemented machine learning model**                                                          *Montreal, Canada*
USING PYTHON                                                                                                          *2019*
- Implemented LDA, Logistic regression and Multinomial Naïve Bayes model in **Python**.
- https://github.com/Furiosah/MultinomialNaiveBayes
- https://github.com/Furiosah/FirstMLPro

**Ablation study and baseline challenge in NeurIPS 2019**                          *Montreal, Canada*
USING PYTHON                                                                                                          *Dec. 2019*
- Complete the baseline and ablation challenge on **Glyce: Glyph-vectors for Chinese Character Representations** in group of three.
- The paper proposed a new model using CNN and bert model for Chinese NLP tasks.
- Generalize the model proposed on Japanese.
- Here is the link of all codes used for ablation: https://github.com/Furiosah/NeurIPS2019-Ablation
- Here is the report submitted to conference: https://drive.google.com/open?id=1sQX1xYSIkPLk6HqRbbcasPo1weMB4o_A

**English dialect analysis**                                                                                  *Montreal, Canada*
LINGUISTICS                                                                                                            *2019*
- Using praat to analyse difference dialects in English(including cockney, Canadian English, RP, etc.) by comparing vowel spaces and VOT.
- This link contains all analysis reports: https://github.com/Furiosah/Phonetics.

## Community Involvement

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|---|---|---|
| May 2018 | **Vet Assistant Volunteer,** Chunyang Veterinary Clinic | *Shandong, China* |
| Oct. 2017 | **Event Planner Assistant Volunteer,** Homecomming 2017, Macdonald Campus | *Montreal, Canada* |
| 2015-2017 | **Founder and Organizer,** Volunteer club, Malvern College Qingdao | *Shandong, China* |