






Tianyu Zhang

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EXPERIENCE

UNIVERSITY OF ALBERTA

RESEARCH ASSISTANT & TEACHING ASSISTANT

September 2017 – Present | Edmonton, Canada

- The research efforts resulted in 9 publications in peer-reviewed high-impact journals and top international conferences related to reinforcement learning and machine learning.
- Developed two open-source simulation and evaluation platforms that are included in the International Energy Agency (IEA) EBC Annex 79.
- Collaborated on several projects with other postdoctoral fellows and professors from various institutions.
- Installed, configured, and maintained operating systems, application software, and system management tools on 3 university research servers.
- Taught lab sessions, designed and graded assignments and exams for over 7 academic terms on various courses that had over 100 students.
- Received the graduate student teaching award.

HUAWEI TECHNOLOGIES CANADA CO., LTD.

ASSOCIATE RESEARCHER

May 2021 – December 2021 | Remote - Vancouver, Canada

- Earned a second place in the NeurIPS ML4CO competition dual task. The research findings are published on the top international conference.
- Designed new workflow solutions to automate the machine learning model robustness evaluation for commercial use.
- Wrote weekly progress reports and contributed to bi-weekly conference call updates with other teams.

UNIVERSITY OF ALBERTA

LIBRARY BACK-END PROGRAMMER

September 2019 – April 2021 | Edmonton, Canada

- Dealt with the digitization of legacy university publications (including OCR) and maintained the university library production server.
- Organized files stored on Swift and MySQL entries, structured and uploaded items to the production server and Internet Archive using Ruby on Rails.

AWARDS

NeurIPS ML4CO Competition Dual Task Runner-up	2021
University of Alberta Outstanding Master Thesis Award Runner-up	2020
University of Alberta Graduate Student Teaching Award	April 2020
University of Alberta Mary Louise Imrie Graduate Student Award	April 2019
North America ACM-ICPC Regional Contest Silver Medal	November 2017
University of Alberta Graduate School Full Stipend Admission	September 2017
University of Alberta Dean's Honor Roll	2015 - 2017
University of Alberta First Class Standing	2015 - 2017
North America ACM-ICPC Regional Contest Bronze Medal	November 2016
7th place in the Alberta Collegiate Programming Contest	October 2016
North America ACM-ICPC Regional Contest Bronze Medal	November 2015

SKILLS

PROGRAMMING

C/C++ • Python • Java • PHP
HTML • CSS • Kotlin • Matlab • R
EPL • Bash • Ruby

APPLICATIONS/Frameworks:

GitHub • MySQL • Google Cloud
Django • EnergyPlus • SketchUp

DATA ANALYSIS/MACHINE LEARNING:

Excel • Pandas • Numpy • PyTorch
TensorFlow • Matplotlib • SAS

OTHERS:

Algorithms • Optimization
Machine learning models
Mathematical modelling

EDUCATION

UNIVERSITY OF ALBERTA

DOCTOR OF PHILOSOPHY

DEPARTMENT OF COMPUTING SCIENCE

September 2019 - Present | Edmonton, Canada

Cum. GPA: 4.0 / 4.0

Advisor: Dr. Omid Ardakanian

Expected graduation: Dec. 2022

UNIVERSITY OF ALBERTA

MASTER OF SCIENCE

DEPARTMENT OF COMPUTING SCIENCE

September 2017 - July 2019 | Edmonton, Canada

Cum. GPA: 4.0 / 4.0

Advisor: Dr. Omid Ardakanian

UNIVERSITY OF ALBERTA

BACHELOR OF SCIENCE WITH HONORS

DEPARTMENT OF COMPUTING SCIENCE

September 2013 - June 2017 | Edmonton, Canada

Cum. GPA: 3.8 / 4.0

LANGUAGES

CHINESE (MANDARIN)

Native language

ENGLISH

Professional working proficiency