

SIQI ZHENG

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RESEARCH EXPERIENCE

Journal Publication

Mar. 2021

Arts and Science Students' Union, University of Toronto

- Siqi Zheng. (2021). From Mass-Dependence Model to Acoustic Mechanism: Two Mechanisms for Core-Collapse Supernova and Their Implications. Arbor Journal of Undergraduate Research, Volume 2.
https://issuu.com/arbor.assu/docs/arbor_journal_2021_

PROFESSIONAL EXPERIENCE

Undergraduate Teaching Assistant

Sep. 2020 – Apr. 2021

Department of Statistical Science, University of Toronto, Toronto, Ontario

- 1 of 12 undergraduate teaching assistants for undergraduate courses at the Department of Statistical Science
- Managed first-year statistics course with 500 students in collaboration with other 24 teaching assistants
- Adminstrated examinations, weekly discussion board and assignments, evaluated their performance systematically and provided constructive feedbacks for their future learning in statistic at University of Toronto
- Led an independent class of 24 students in each semester, delivered one-hour tutorial about Frequentist's Optimal Theory and data programming each week and simulated an interactive learning environment creatively
- Organized personalized 1-1 consultation meetings with students in need, communicated their requests to lead teaching assistant and professor on a regular basis
- Piloted and guided successfully more than 40 group projects on voter opinions about Canada's large federal political parties based on political data and business strategies for Toronto Yacht Club with current members' information

Science Teacher/Librarian Teacher

Sep. 2018 – Apr. 2019

Clinton Junior Public School (Vic Reach Program), Toronto, Ontario

- Managed K-6 classes with more than 100 students in total with my host teacher, including regular class (15-20 students) and special-education class (4-6 students)
- Adminstrated school library on Friday, organized in-class reading activities and book rentals designed for regular class
- Arranged audio/video immersive learning activities for students with special needs. Implemented new teaching techniques including Universal Design Learning that fostered the learning experience of students with special needs
- Assisted the reorganization of the library, updated new book information and decoration boards in the library and removed old teaching materials and items with safety concerns
- Managed Maker-space activities on Friday afternoon, led a class of students for 2 hours each afternoon, guided them to practice arts and crafts skills and assisted them to successfully complete weekly individual projects
- Received certificate for 60+ hours of contribution from Victoria College, University of Toronto

EDUCATION & TRAINING

Honors Bachelor of Science, University of Toronto, St. George Campus, Toronto

Specialist in Applied Statistics, Major in Economics, Minor in Mathematics and Physics

Expected 2022

CGPA: 3.76/4.00

PROJECTS

R Projects

- Analyze user (professors and students) behaviors of a real learning website;
- Investigate the association between housing sale price and listed price in Toronto and Mississauga;
- Predict COVID-19 cases with Google/Apple Mobility data (GitHub)
- Interactive visualizations of Mobility data during COVID19 pandemic (R Shiny; GitHub)