Ryan Shi

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Education

HONORS BSC / UNIVERSITY OF TORONTO / JUNE 2025 (EXPECTED)
- Program: Data Science Specialist, Bioinformatics & Computational Biology Specialist
- GPA: 3.94 / 4

Skills & Abilities

LANGUAGES
- Python (NumPy, SciPy, Matplotlib, pandas, sklearn), R (tidyverse), Java, LaTeX, Perl, HTML, CSS

SOFTWARE
- Git / GitHub, RStudio, Jupyter Notebook, MATLAB, Excel, WeBWorK

Work Experience

TEXTBOOK DESIGN ASSISTANT / UNIVERSITY OF TORONTO / MAY 2023 – AUG 2023
- Edited textbook content and materials for a proof-based multivariable calculus course
- Created homework questions using Perl on WeBWorK

RESEARCH STUDENT / CAMH / OCT 2022 – MAR 2023
- Cleaned EEG data using MATLAB for a project using PAS-TMS to assess plasticity in adults with ASD and identify potential biomarkers of ASD symptoms
- Created data files to be used in the project's data analysis and results

Projects

DATA SCIENCE I / JAN 2023 – APR 2023
- Created an NLP logistic regression model to predict sentiments on Twitter trained on metadata (data aside from tweet content)

SOFTWARE DESIGN / SEP 2022 – DEC 2022
- Created a lightweight Java-based social application using clean architecture and object-oriented programming paradigms

INTRODUCTION TO STATISTICAL REASONING / SEP 2021 – DEC 2021
- Explored patterns, tested hypotheses, and communicated findings using RStudio for a joint project on short stories by the Faculty of Law and Department of English

Awards and Qualifications

UNIVERSITY OF TORONTO SCHOLAR & J. S. MACLEAN SCHOLARSHIP / UNIVERSITY OF TORONTO / SEP 2021