WILLIAM PANG

github.com/williampangbest1 https://observablehq.com/@williampangbest1 william.pang@yale.edu
New Haven, Connecticut, United States (630)-506-2842

EDUCATION

Yale University, USA *Sept 2021 - May 2023 (Expected)*
Master of Public Health, Epidemiology of Microbial Diseases Public Health Modelling Concentration

McGill University, Canada *Sept 2015 - Dec 2020*
Bachelor of Engineering (Bioengineering)

SKILLS

Languages: English (Native), Cantonese (Native), Mandarin (Professional Fluency)
Software & Tools: **Programming Languages:** C++, Python
Website Development: HTML, CSS
Numerical Software: MATLAB, R
Database Software: SQL, PostgreSQL

RESEARCH EXPERIENCE

Data Science/ML Intern
Nightingale Open Science
• Assist with curating X-Ray images for the diagnosis of COVID-19 patients on custom platform
• Perform machine learning analysis on X-Ray images and compare with physician diagnosis

Graduate Student Researcher (Data Science), Yale School of Public Health *Sept 2021 - Present*
Ted Cohen Lab (PI: Ted Cohen)
• Conducting internal model validation using R and SQL for the COVIDestim project, an online tool which employs in-house statistical models to predict current COVID cases using reported case and death data
• Assisting in the development and implementation of a data anomaly detector using Hidden Markov models

Research Assistant, McGill University *May 2019 - Aug 2021*
Stem Cell Bioprocessing Lab (PI: Corinne Hoesli)
• Developed antibody-modified microcarriers that are used for the selective capture and expansion of stem cells
• Investigated the interaction between mesenchymal stem-cell and custom-developed surfaces in the context of stem-cell therapy, collaborating with industrial partner Saint-Gobain
• Developed a MATLAB GUI for the analysis of phase-contrast images using wavelet transform techniques

Undergraduate Student Researcher (for Capstone Project) *Sept 2019 - May 2020*
Computational Structural and Systems Biology Lab (PI: Yu Brandon Xia)
• Developed a web-based tool for the processing and visualization of select human protein-protein interaction pairs
• Developed website with HTML and CSS, successfully deployed web-based application on Heroku with Flask

AWARDS

• Horstmann Scholarship for Yale School of Public Health (valued at $30,000), as well as guaranteed Teaching Fellow Position during Second Year (valued at $4000 per semester)
• Summer Undergraduate Research in Engineering Award (Summer 2019, 2020), funded by National Science and Engineering Research Council of Canada and the Faculty of Engineering at McGill University (valued at $5625 per summer)

WRITING

Published on the New York Times, the Atlantic, the Washington Post, the Walrus, the Globe and Mail, and more. A comprehensive list of my writing can be found here.