Xudong Wu

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Citizenship: China

Education

September 2023 – Present
University of Edinburgh – Edinburgh, UK
BSc(honour) in Mathematics and Statistics
Average score:77/100.

September 2021 – June 2023
Dalian University of Technology (Project 985 and 211) – Dalian, China
BSc in Information and Computing Science
Average score: 89/100, Rank: 10/195.

Research experience

June 2024
Summer Research at UC,Irvine
Under Prof. Chen Li, I focus on optimizing Texera, a machine learning-based data analysis workflow platform. My work includes enabling Texera to output PDF reports and developing the Storyteller AI. This AI automatically generates workflow data, analyzes results, and produces comprehensive reports based on the workflow content. Additionally, I contribute to enhancing data cleaning and data analysis components to support visualization.

March 2024
Project in Applied Statistics
We completed the estimation of 3D printer materials using the R language. We also evaluated the impact of different prior functions on the results, and after adopting the most reasonable prior function, we obtained estimates of the parameters through the method of importance in Bayesian statistics.

December 2022
Project in Mathematical Modeling and Literature Search
Led a team project in mathematical modeling, demonstrating leadership, communication, and problem-solving skills. Focusing on the predictive ability of population models in different regions,We added new parameters to the model, such as the fertility intentions of women of different age groups, to enhance the model's predictive accuracy.

Key Academic Scores

September 2023
– June 2024
–(University of
Edinburgh)

Numerical Ordinary Differential Equations and Applications
Score: 98/100 - Focused on numerical methods for ODEs, with applications in physics and epidemiology using Python. Emphasised consistency, stability, and convergence of methods.

Honours Complex Variables
Score: 85/100 - An advanced honour lecture, covered holomorphic functions, and conformal mappings. Included rigorous study of integration and differentiation of complex functions. And advanced topic behind it.

Financial Mathematics
Score: 82/100 - Introduced financial markets, derivative instruments, and no-arbitrage pricing. Included stochastic analysis, Ito calculus, and the Black-Scholes model.

September 2021
– June
2023–(Dalian
University of
Technology)

Mathematical Modeling and Literature Search
Score: 96/100 - Demonstrated strong capabilities in mathematical problem-solving and research methodologies.

Complex function theory
Score: 92/100 - Consistently high performance in complex mathematical theories.

Ordinary Differential Equation
Score: 99/100 - Achieved near-perfect score, showcasing analytical proficiency in differential equations.

Number Theory
Score: 98/100 - Excelled in understanding and applying complex number theory concepts.

Honors and scholarships

September 2022
– June 2023

First-Class Scholarship (Dalian University of Technology)
Elite student (Dalian University of Technology)
Excellent league secretary (Dalian University of Technology)
Dual Degree Student Scholarship (University of Edinburgh)
International Study Scholarship (Dalian University of Technology)

September 2021
– June 2022

Second-Class Scholarship (Dalian University of Technology)
Elite student (Dalian University of Technology)

Technical skills

Programming languages
Proficient in: Python, R
Familiar with: C++, MATLAB

Software
LaTeX, Git, Microsoft Office Suite

Languages
English (Fluent), IELTS 7
Mandarin (Native)