

Jamie Graham

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Personal Details

Highest Level of Education: Bachelor's Degree

Work Experience

Physics/Applied-Math Undergraduate Research Assistant

Non-linear Waves Group at UWO - London, ON
September 2020 to May 2021

- Conducted novel PDE stability analysis research for honours' undergraduate thesis in the field of fluid dynamics, characterizing the linear stability regime of the water wave problem, with a focus on transitional water, flexural-gravity waves.
- Adhered to strict deadlines and meeting times with high proficiency
- Presented literature analysis and presented methodology/theory with an extremely high level of clarity in final thesis presentation, navigating a complex mathematical landscape and distilling the Fourier-Floquet perturbative analysis into an accessible educational experience. Supervisor and fluid dynamics colleagues remarked "We have never seen such a clear, instructive, and concise explanation of the theory behind our water wave analysis".
- Completed a fifty page undergraduate thesis, demonstrating high proficiency in mathematical methods such as perturbation theory, linear algebra, multivariable calculus, differential equations, numerical analysis in Python and LaTeX scientific word-processing software.

Computational Neuroscience Data Analyst

Sunnybrook Research Institute - Toronto, ON
May 2018 to May 2020

- Developed motion tracking and signal processing software to analyze neurobiological experimental data, from ultrasound recordings to local field potentials in the rat brain.
- Increased experimental acquisition efficiency through the development of a particle tracking velocimetry code that automated vessel velocity recordings in the brain which drastically reduced data analysis time.
- Responsible for working onsite at Sunnybrook during the summer from 9 to 5 each day, then freelance from home during the school year.

Music Director/Camp Counsellor

Bravo Academy - Toronto, ON
May 2018 to September 2018

- Taught a group of kids aged 6 to 14 the score of Aladdin Jr. with harmonies and solo vocal lines.
- Led the kids through the process of staging and putting on a full-fledged musical in the span of a month.

- Supervised the children during snack and lunch breaks and diplomatically managed conflict within individuals in the group.
- Through daily reflections and drama exercises, taught the children about emotional intelligence as well as what it takes to be a leader in one's own community.

Education

Bachelor's Degree in Physics and Applied Mathematics

Western University / University of Toronto - Toronto, ON

September 2017 to Present

Secondary School

Northern S.S

September 2013 to June 2017

Skills

- Excel (7 years)
- Microsoft Office (7 years)
- Powerpoint (7 years)
- Selenium (1 year)
- CSS (2 years)
- Javascript (2 years)
- Python (4 years)
- HTML (2 years)
- MATLAB (3 years)
- Laboratory Experience
- Computer Science
- Data Analysis
- Tutoring
- Multivariable Calculus (3 years)
- Real & Complex Analysis (2 years)
- Linear Algebra (4 years)
- Numerical Solutions of PDE (2 years)
- Differential Equations (3 years)
- Strong Public Speaker (7 years)
- Presentation Skills
- Bootstrap
- jQuery
- Web Design

Awards

TDSB Fusion Top 10 Finalist Award (2012)

May 2012

CBC Searchlight Songwriter Competition Top 20 Under 20 Finalist Award

October 2016

The Western Scholarship of Excellence

September 2017

Selena Taylor Scholarship for Excellence in Music

June 2017

ORMTA Excellence in Composition Scholarship

February 2017

Beth Lebens Scholarship

April 2017

UWO In-Class Scholarship

May 2019

Academic Scholarship valued at 200\$ for highest mark of 100% in the class of 30 students in AM2402a - Ordinary Differential Equations

U of T In-Class Scholarship - Non-Linear Dynamics and Chaos MAT332

May 2020

Academic Scholarship valued at 500\$ awarded for highest mark in the class of 97% out of 50 students in the course Non-Linear Dynamics and Chaos MAT332

Assessments

Attention to Detail — Highly Proficient

May 2020

Finding differences, following instructions, and noticing details among distracting information.

Full results: [Highly Proficient](#)

Analyzing Data — Expert

August 2020

Interpreting and producing graphs, identifying trends, and drawing justifiable conclusions from data

Full results: [Expert](#)

Typing — Expert

August 2020

Transcribing text using a standard keyboard

Full results: [Expert](#)

Indeed Assessments provides skills tests that are not indicative of a license or certification, or continued development in any professional field.

Additional Information

Fantastic written/verbal communication skills, strong analytical skills. Coding skills. Friendly, professional, and team-oriented worker. Note taking experience - 3 years.