CODY GRIFFITH

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As an applied mathematician, I have had exposure to algorithm & web development, UI/UX design, data science towards social impact, and contributed to the modeling of dynamics of oceanic currents. My goal is to continue to diversify my knowledge and make an impact on the world around us.

EXPERIENCE

DEC 2021 TO PRESENT

SOFTWARE DEVELOPMENT ENGINEER, ONE IDENTITY, GMBH

- Support web migration to an Angular framework while extending middle-ware REST API with C#
- Communicate with stakeholders to architect accessible UI/UX for data visualization and interactivity
- Identify, motivate, and solve technical debt in testing and UI inconsistencies

DEC. 2018 TO AUG 2021

RESEARCH SCIENTIST, 908 DEVICES INC.

- Automated intact protein characterization via deconvolution, relative identification, and quantization with CE-MS data in Python and C++
- Managed the above tool for both internal and external software deployment
- Maintained and added significant features to existing MATLAB/embedded software
- Reported sample analyses to customers and worked together with lab technicians and chemists to design and run experiments
- Formed large scale data analyses on manufacturing and unit exit test data

MAY 2018 TO SEPT 2018

RESEARCH SCIENTIST, DATA SCIENCE FOR SOCIAL GOOD

- Led development of a data analysis tool to bring together multiple data streams via R and make statistical inference
- Collaborated with stakeholders to ensure requirements were met
- Partnered with Microsoft to gain insight into algorithms and analysis avenues

EDUCATION

SEPT 2016 TO SEPT 2018

MSC. APPLIED MATHEMATICS, UNIVERSITY OF BRITISH COLUMBIA

Thesis: Non-Smooth Dynamics in the Stommel Model for Theromohaline Circulation
GPA: 3.97 of 4.0
Relevant Coursework:

Probability I, II & III	Dynamic Systems
Asymptotic Analysis	Machine Learning

AUG 2012 TO MAY 2016

BSC. APPLIED MATHEMATICS, METROPOLITAN STATE UNIVERSITY OF DENVER

GPA: 3.67 of 4.0, Provost's Honor Roll Spring 2015
Relevant Coursework:

Probability Theory	Statistical Theory
Numerical Analysis I & II	Chaos and Nonlinear Dynamics
Stochastic Processes	Statistical Methods

PUBLICATIONS

- **Budd, C., Griffith, C., & Kuske, R. (2021).** ***Dynamic tipping in the non-smooth Stommel-box model, with oscillatory forcing.*** **Physica D: Nonlinear Phenomena. Available at: https://www.sciencedirect.com/science/article/abs/pii/S0167278921001068**

- **Griffith, C., Mathur, V., Lin, C. and Zhu, K. (2019).** ***Understanding Childhood Vulnerability in The City of Surrey.*** **[online] arXiv.org. Available at: https://arxiv.org/abs/1903.09639**

ACADEMICS

Conference Talks & Collaborations	
Failure Analysis of Mining Dump Trucks	SSR Mining 2017
Spatial & Temporal Analysis of Bear Creek	Groundwork Denver 2016
Exploration of Iterative Matrix Transformations	JMM 2016
Probability Model of a Taxi Stand	MSU Denver 2015
Dual Capacity Stochastic Queue	MAA 2015

SKILLS

Deep understanding of **Algorithm Design**	Extensive use of **Python, Matlab, and JavaScript**
10+ years of **Mathematical Analysis**	Intermediate use of **R, C++, and C#**
Excellent **Collaborative & Interpersonal Skills**	Well experienced in **CI/CD & Azure Devops**

REFERENCES

Mr. Robert Green	**Dr. Kevin Lin**	**Dr. Rachel Kuske**
bgreen@908devices.com	kevin.lin@ubcs.ca	Rachel@math.gatech.edu
Principal Scientist	Director of DSSG at UBC	Chair of Mathematics
Direct boss at 908 Devices	Supervisor at DSSG	Master's thesis supervisor