Elliot Snow-Kropla

Personal Data

Address: 3-524 Runnymede Road, Toronto, Ontario, Canada
Phone: +1 902 981 5382
email: esnowkropla@gmail.com
website: ejsk.ca

Work Experience

Oct 2015 - Aug 2017 | Technical Cofounder of Two and Thirty Software

- Oversaw outside product development contracts for $60,000 in revenue
- Responsible for product development and marketing resulting in $70,000 in revenue
- Managed the asset team responsible for creating art assets

Oct 2014 - Apr 2015 | Software Developer at QRA Corp

- As part of work on the *QVTrace* Verification & Validation tool, implemented bit-blasting routines for converting arithmetic problems into boolean logic problems

2011 - 2014 | Teaching Assistant, Dalhousie University

- Lectured on data visualization and data presentation for *Computational Methods in Physics*
- Ran the undergraduate Honours Student project lab, including giving instruction on data collection, visualization, and modelling

Summers 2010 & 2011 | Research Assistant in the Pierce Lab, Dalhousie University

Education

Aug 2014 Master of Science in Physics, **Dalhousie University**, Halifax
Thesis: "**Compiling Programs for an Adiabatic Quantum Computer**"
Supervisor: Prof. J. Kyriakidis

May 2011 Bachelor of Science in Physics, **Dalhousie University**, Halifax
First Class Honours, Dean's List, Sexton Scholar
Thesis: "**Understanding uncertainties in predictions of global aerosol number concentrations**"
Supervisor: Prof. J. Pierce

Skills

Data Modelling and Analysis:	python, sql, scikit-learn, matplotlib, scipy, numpy, jupyter
Machine Learning Techniques:	Linear Models, Logistic Regression, SVM, ANN, CNN, Decision Trees, Random Forests
General Programming:	python, c, c++, fortran, c#, Java, JavaScript, go, rust
Software:	Git, matlab, PostgreSQL, Flask, Excel, LabVIEW, nginx

Publications

Snow-Kropla, E. J., Pierce, J. R., Westervelt, D. M., and Trivitayanurak, W.: *Cosmic Rays, aerosol formation and cloud-condensation nuclei: sensitivities to model uncertainties,* Atmos. Chem. Phys., 11, 4001-4012, https://doi.org/10.5194/acp-11-4001-2011, 2011.

Outreach

Participated in "Physics Fun and Discovery Days" outreach program for children in Grades 6-12, including:

Planetarium Shows	Used the Halifax Planetarium to show students topics in Astronomy, Astro-Physics and Ancient Mythology
Liquid Nitrogen Shows	Used liquid nitrogen to demonstrate how material properties change at a range of temperature scales including superconductivity, condensing liquid oxygen, and making a salad with a hammer
Discovery Room	Gave students hands-on activities that demonstrate physical principles such as freezing motion with a strobe light, measuring electrical signals of the heart, and acoustics of the voice