

# Elliot SNOW-KROPLA

## PERSONAL DATA

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## WORK EXPERIENCE

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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

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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

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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:	MATLAB, POSTGRESQL, FLASK, EXCEL, LABVIEW, NGINX

## PUBLICATIONS

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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

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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
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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
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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
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