

# Elliot SNOW-KROPLA

## PERSONAL DATA

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## WORK EXPERIENCE

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DEC 2017 - PRESENT | Media Analyst at KLiCK HEALTH

Designed, developed, and maintained internal web-app providing reporting, monitoring and optimization information to the Media team

Developed models to optimize budget allocation on \$10MM+ accounts

MAY 2015 - NOV 2017 | Technical Cofounder of TWO AND THIRTY SOFTWARE

Responsible for product design and development, including shipping complete flagship product

Oversaw outside product development contracts for \$60,000 in revenue

OCT 2014 - APR 2015 | Software Developer at QRA CORP

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: SQL, SCIKIT-LEARN, TENSORFLOW, MATPLOTLIB, SCIPY, 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 & Tools: DOCKER, GIT, POSTGRESQL, FLASK, EXCEL, LABVIEW

## 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
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