# CURRICULUM VITAE — Maksym Neyra-Nesterenko

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## EDUCATION

**M.Sc., Applied Mathematics** – Simon Fraser University · Sep 2020-now

- Committee: Ben Adcock (supervisor), Nilima Nigam

**B.Sc., Mathematics Honours** – Simon Fraser University · Sep 2014-Apr 2020

- Minor in *Computing Science*
- Thesis title: *Diversities, Cluster Analysis, and Ultrametric Embeddings*
- Committee: Paul Tupper (supervisor), Jonathan Jedwab

## RESEARCH EXPERIENCE

**Undergraduate Research Assistant** – Simon Fraser University

- NSERC USRA project supervised by Paul Tupper · May-Aug 2017
- USRA project Supervised by Karen Yeats · May-Aug 2016

## WORK EXPERIENCE

**Data scientist** – Statistics Canada · Oct 2019-Aug 2020 · Jan-Apr 2019 · May-Aug 2018

- Designed and implemented OpenTabulate, a data pipeline command line tool
- Assembled datasets for Canadian health and education facility microdata

## PRESENTATIONS

**Contributed talks**

- *Stable, accurate and efficient deep neural networks for inverse problems with analysis sparse models* – SFU Operations Research Seminars · Feb 14, 2022
- *Provably Accurate, Stable and Efficient Deep Neural Networks for Compressive Imaging* – International Conference on Computational Harmonic Analysis · Sep 17, 2021
- *Provably Accurate and Stable Deep Neural Networks for Imaging* – CAIMS Annual Meeting · Jun 23, 2021
- *Provably Accurate and Stable Deep Neural Networks for Imaging* – Ottawa Mathematics Conference · May 28, 2021

## AWARDS

**NSERC Canada Graduate Scholarships Master's** · May 2021-Apr 2022

Value: $17500, received from NSERC by application

**Peter Borwein Memorial Graduate Scholarship** Jan-Apr 2022

Value: $1500, received from SFU by nomination

**BC Graduate Scholarship** Sep 2020-Aug 2021

Value: $15000, received from SFU by nomination

**NSERC Undergraduate Student Research Award** May-Aug 2017

Value: $4500, received from NSERC by application

**VPR Undergraduate Student Research Award** May-Aug 2016

Value: $4500, received from SFU by application

## WORKSHOPS and DEVELOPMENT

**PIMS Math to power Industry workshop –** University of Calgary Aug 2021

- Completed MITACS courses in communication and team building
- Presentation and report on Serious Labs project of developing real-time simulation for hydraulic systems

## TEACHING and MENTORSHIP

**Teaching assistant -** Simon Fraser University

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|---|---|
| • Algebra Workshop and Mathematics of Data Science | Jan-Apr 2022 |
| • Vector Calculus and Applied Calculus Workshop | Jan-Apr 2021 |
| • Algebra Workshop | Sep-Dec 2020 |
| • Applied Calculus Workshop | Sep-Dec 2018<br>Jan-Apr 2018 |

**Mathematics tutor –** SFU Science & Math Peer Tutoring Jan-Apr 2016

**Mathematics tutor – Math4me Learning Inc.** Apr-Nov 2015

## TECHNICAL SKILLS

- Linux and Windows
- Python, git, bash, LaTeX, MATLAB
- Python modules for data and numerical analysis, web scraping and machine learning

## MEMBERSHIPS

**Canadian Applied and Industrial Mathematics Society (CAIMS)** Jan 2021-now

**Society for Industrial and Applied Mathematics (SIAM)** Jan 2021-now