

CURRICULUM VITAE

Maksym Neyra-Nesterenko

Portfolio site: mneyrane.com | Email: contact@mneyrane.com

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
- USRA project supervised by Karen Yeats

May-Aug 2017

May-Aug 2016

WORK EXPERIENCE

Data scientist – Statistics Canada

Oct 2019-Aug 2020

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

Jan-Apr 2019

May-Aug 2018

PUBLICATIONS

Conference abstracts

- B. Adcock & M. Neyra-Nesterenko, “*Provably Accurate, Stable and Efficient Deep Neural Networks for Compressive Imaging*”, International Conference on Computational Harmonic Analysis (2021)

PRESENTATIONS

Contributed talks

- *Stable, accurate and efficient deep neural networks for reconstruction of gradient-sparse images*
SIAM Pacific Northwest Conference (May 21, 2022)
- *Stable, Accurate and Efficient Deep Neural Networks for Gradient Sparse Imaging*
SIAM Conference on Imaging Science (Mar 22, 2022)
- *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)

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 3-27, 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

- | | |
|---|--------------------|
| • Ordinary Differential Equations | Summer 2022 |
| • Algebra Workshop, Mathematics of Data Science | Spring 2022 |
| • Vector Calculus, Applied Calculus Workshop | Spring 2021 |
| • Algebra Workshop | Fall 2020 |
| • Applied Calculus Workshop | Fall & Spring 2018 |

TECHNICAL SKILLS

- Linux and Windows
- Python, git, bash, LaTeX, MATLAB
- Knowledge of 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