# 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

May-Aug 2017

USRA project supervised by Karen Yeats

May-Aug 2016

## **WORK EXPERIENCE**

#### Data scientist - Statistics Canada

Oct 2019-Aug 2020

Designed and implemented OpenTabulate, a data pipeline command line tool

Jan-Apr 2019

• Assembled datasets for Canadian health and education facility microdata

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 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)

 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 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

Algebra Workshop, Mathematics of Data Science
 Vector Calculus, Applied Calculus Workshop
 Spring 2022

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