

Jersey City, New Jersey

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Skills

Programming Languages: Python (PyTorch, Transformers, Pytorch Lightning, Scikit-Learn, pandas, NumPy), Julia, Maple, C/C++

**Scientific Computing:** Machine learning, deep learning, numerical computations, computer algebra

Tools: Git, Bash and ZSH, SQL, AWS (SageMaker, Athena, CloudFormation), Hadoop, Spark

Work Experience \_

Bill.com New York, NY, USA

MACHINE LEARNING INTERN June 2022 – present

 Developed end-to-end pipeline for structured document processing using NLP technologies (transformers) Analyzed text document pre- and post-processing patterns to maximize product efficacy

Bill.com New York, NY, USA

MACHINE LEARNING INTERN

June 2021 - August 2021

• Built and tested natural language processing (NLP) models for text classification

**Google Summer of Code** New York, NY, USA

INTERN • Migrated codebase for parameter identifiability in ODE models to SciML

• Project page: github.com/sciml/StructuralIdentifiability.jl

Next Caller, Inc. New York, NY, USA

SOFTWARE ENGINEER INTERN (DATA SCIENCE TRACK)

May 2020 - Dec. 2020 Implement unsupervised and semi-supervised learning algorithms in Tensorflow

Deploy machine learning models using AWS

The City College of New York, City University of New York

ADJUNCT LECTURER Jan. 2020 - May 2022

• Courses Taught: Statistics for Computer Science

Projects.

**Projects** 2018 - PRESENT

PERSONAL AND RESEARCH PROJECTS AND OPEN SOURCE CONTRIBUTIONS

• Research project: Web-based structural identifiability analyzer, click here

Built a numpy-based machine learning library imitating PyTorch (URL: click here)
Open source contributions: Scikit-Image (Python), SciML's Symbolics.jl, SciML's StructuralIdentifiability.jl (Julia, one of maintainers)

**Machine learning** 2018 - PRESENT

KAGGLE COMPETITIONS

• Cloud Segmentation Challenge: click here

- Alaska Image Steganalysis (submitted as a class final project) <u>click here</u>
- Kaggle Ion Switching: <u>click here</u>

## **Education** \_

## **Graduate Center, City University of New York**

New York, NY, USA Sept. 2018 - PRESENT

June 2021 - August 2021

New York, NY, USA

• Research Interests: Algorithms and Software for Computer Algebra Systems, Machine Learning and Al.

- Publications: click here
- Awards: ISSAC 2021 Best Software Presentation Award

MPHIL IN COMPUTER SCIENCE, PHD CANDIDATE IN COMPUTER SCIENCE

• Talks: click here

## University of Calgary

MS IN MATHEMATICS

• Publications: click here

Calgary, AB, Canada Sept. 2016 - July 2018