

## Michael Vinh Pham

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### Education

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#### Swarthmore College

Swarthmore, PA

Pursuing B.A. Mathematics (Statistics emphasis) & Economics, 3.75 GPA

August 2021 - Present

- Activities: Cross Country/Track & Field Student-Athlete, Effective Altruism, Launchdeck Accelerator Officer, Economics Department Coordinator of Events

### Work Experience

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#### University of California San Diego Engineers for Exploration REU

San Diego, CA

Incoming Machine Learning Researcher

Not started yet (Summer 2023)

- Will be working on interdisciplinary project developing ML model address environmental issues

#### Swarthmore College Qu Lab

Swarthmore, PA

Machine Learning Researcher

February 2023 - Present

- Advised by Dr. Xiaodong Qu
- EEG-ML Research

#### University of California San Francisco

Remote

Machine Learning Researcher | R, Python (Tensorflow/Keras, SciKit)

November 2022 - Present

- Advised by Dr. Renuka Nayak
- Developed ML model to predict phenotypes from microbiome OTU abundances, find how mice microbiome react to arthritis medication
- Achieved 0.3, 0.38, 0.44 info gain on MCC score over best existing DL model when predicting Gender, Abx treatment, SKG/WT phenotypes/traits

#### Karner Blue Capital

Remote

Quantitative Research Intern | Python (Pandas, SciKit)

May 2022 - August 2022

- Improved ESG integrated firm's Markowitz Portfolio Optimizer

### Papers

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- **Findings from the Bambara - French Machine Translation Competition (2023)** Ninoh Agostinho Da Silva, Tunde Ajayi, Alex Antonov, Panga Azazia Kamate, Moussa Coulibaly, Mason Del Rio, Yacouba Diarra, Sebastian Diarra, Chris Emezue, Joel Hamilcaro, Christopher Homan, Sarah Luger, Alexander Most, Joseph Mwatukange, Peter Ohue, **Michael Pham**, Abdoulaye Sako, Sokhar Samb, Yaya Sy, Cyril Weerasooriya, Yacine Zahidi. **EACL 2023**.

### Relevant Skills & Classwork

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**Skills:** Python (Tensorflow, Keras, SciKit-Learn, Pandas) C++, JavaScript, R, SQL, Git, AWS (EC2, S3)

**Relevant coursework:** Linear Algebra, Statistics II, Econometrics II, Data Structures & Algorithms, Machine Learning (CS229 Online lecture), Deep Learning (CS230 Online lecture)

## Awards & Achievements

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- 5th place, Orange Silicon Valley Bambara-French Machine Translation Competition
- Semi-finalist, National Merit Scholarship 2021

## Teaching Assistant

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**Swarthmore College**

**Swarthmore, PA**

Intro to Economics Teaching Assistant & Tutor

August 2022 - December 2022

- Led problem session clinics, facilitated student collaboration
- Explained economic concepts in clear, concise manner
- Through Visible Hand in Economics program consciously provided opportunities for diverse perspectives to be heard, provided advice towards completing an economics major