

PEEM LERDPUTTIPONGPORN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

2021 - present

Ph.D. in Statistics and Public Policy (Expected 2026, GPA 3.93/4.00)

Coursework: Statistical Machine Learning, Advanced Statistical Theory, Causal Inference, Intermediate Statistics, Regression Analysis, PhD Microeconomics.

Swarthmore College, Swarthmore, PA

2017 - 2021

B.A. in Mathematics and Computer Science (Honors, GPA 3.86/4.00)

Coursework: Artificial Intelligence, Machine Learning, Database Systems, Algorithms, Data Structure.

King's Scholarship

2016

A merit-based scholarship from the Royal Thai Government to study in the US.

RESEARCH/WORK EXPERIENCE

Graduate Student Researcher

Jan 2022 - present

Carnegie Mellon University, Pittsburgh, PA.

- Developed models that predict the length-of-stay for ICU patients with 70% accuracy using machine learning and survival analysis.
- Applied cross-fitting methods to obtain confidence interval for variable importance. Improved the imputation speed for missing data using parallel programming.
- Currently working on causal inference in social networks with David Choi and Nynke Niezink.

Statistics Research Assistant

June 2020 - May 2021

Swarthmore College, Swarthmore, PA.

- Developed and implemented Bayesian methods to predict dinosaur extinction with R language.

Computer Science Research Assistant

Jan - Aug 2019

Swarthmore College, Swarthmore, PA.

- Researched on query complexity, complexity measures, and probabilistic methods.
- Published a paper titled *A Strong XOR Lemma for Randomized Query Complexity* to the *Theory of Computing* journal in 2020 (arXiv:2007.05580v2).

Policy Research Intern

Dec 2019

Thailand Development Research Institute, Bangkok, Thailand.

- Performed statistical analysis on Program for International Student Assessment 2018 data to assess factors associated with Thai students' education achievement.

TEACHING EXPERIENCE

Teaching Assistant

Aug 2021 - present

Carnegie Mellon University, Pittsburgh, PA.

- Program Evaluation: Spring 2023 (head TA).
- Experimental Design for Behavioral Social Sciences: Fall 2022-23 (head TA), Fall 2021.

Peer Mentor

Aug 2018 - May 2021

Swarthmore College, Swarthmore, PA.

- Data Structures and Algorithms, Intro to Computer Science, Intro to Education, Intro to Economics.

OTHER PROJECTS

Data Journalism

- Designed online surveys to learn Swarthmore students' preference on the reopening plan amidst the COVID-19 pandemic. Published an article on *The Phoenix* (student-run newspaper).
- Analyzed the drop in Writing Center usage among Swarthmore students.

SKILLS AND INTERESTS

Programming Languages

Python, R, C++, C, SQL

Languages

English (Fluent), Thai (Native), Chinese (Intermediate)

Interests and Activities

Running, Chinese music