

YEN-CHUN LIU

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Department of Statistical Science, Duke University, Durham, NC 27708

EDUCATION

Ph.D. student in Statistics

Duke University

Aug., 2022 - present

Durham, USA

M.S. in Statistics

National Tsing Hua University (NTHU)

Sep., 2020 - July, 2022

Hsinchu, Taiwan

B.S. in Mathematics

National Taiwan University (NTU)

Sep. 2015 - Jan. 2020

Taipei, Taiwan

Exchange Program

Department of Mathematics and Statistics, Masaryk University

Sep., 2019 - Jan., 2020

Brno, Czech Republic

RESEARCH INTERESTS

Bayesian Optimization, Reinforcement Learning, Gaussian Process, Causal Inference

RESEARCH EXPERIENCES

Research Assistant

Department of Statistical Science, Duke

Aug. 2023 - present

- Advisor: Eric Laber & Alex Volfovsky
- Topic: Optimal experimental designs for the average treatment effect under incentives (ongoing project)

Research Assistant

Department of Statistical Science, Duke

Aug. 2023 - present

- Advisor: Simon Mak
- Topic: Bayesian optimization and uncertainty quantification for mixed variable models using Gaussian process latent variable model (ongoing project)

Research Assistant

Institute of Statistics, NTHU

Dec., 2020 - July, 2022

- Advisor: Yu-Jen Cheng; Co-Advisor: Chiung-Yu Huang (UC San Francisco)
- For the paper *Semiparametric estimation of the transformation model by leveraging external aggregate data in the presence of population heterogeneity*.

Summer Research Intern

Institute of Information Science, Academia Sinica

July 2018 - Aug. 2018

- Advisor: Da-Wei Wang
- Topic: Analyzing electronic health records through natural language processing methods

PUBLICATIONS

Cheng YJ, **Liu YC**, Tsai CY, Huang CY. Semiparametric estimation of the transformation model by leveraging external aggregate data in the presence of population heterogeneity. *Biometrics*. 2022

SKILLS & TOOLS

R, Python, Matlab (basic), C/C++ (basic), LATEX

TEACHING EXPERIENCES

Graduate Mentor

Undergrad Summer Research Workshop, Duke *Summer 2023*

Teaching Assistant

STA 101 - Data Analysis and Statistical Inference, Duke *Spring 2023*

STA 661 - Survival Analysis, NTHU *Spring 2022*

MATH 120 - Calculus A (I), (II), NTU *Fall 2018 - Spring 2019*

HONORS AND AWARDS

Dr. Chen Wen-Chen Statistical Scholarship *2022*

Academic Excellence Scholarship, NTHU *Fall 2020, Spring 2021*

New Graduate Merit Scholarship, NTHU *2020*

Intergovernmental Exchange Programmes Scholarship (Full Ride) *2019-2020*

Dr. Chen Wen-Chen Memorial Scholarship, NTU *2018*

Second place in Freshman English Presentation Contest, NTU *2016*

Gold medal in 29th Pittsburgh Invention and New Product Invention Exposition *2014*

EXTRACURRICULARS

Translation Volunteer, Amnesty International *2017 - 2018*

Vice Officer of Gender Diversity Division, NTU Students Association *2017 - 2018*

Team Leader of Women's Basketball Team, NTU Math *2018 - 2019*