

YI HUANG

pphuangyi@gmail.com

phone: (312) 404-0499

EMPLOYMENT

Postdoctoral Scholar, *University of Chicago*

10/2017-03/2021

Research Associate, *Brookhaven National lab*

03/2021 - present

EDUCATION

Ph.D. in Mathematics, *University of Illinois at Chicago, Chicago, IL*

2017

dissertation title: “Problems in Learning under Limited Resources and Information”, advised by
Lev Reyzin

M.S. in Mathematics, *Georgia Institute of Technology, Atlanta, GA*

2010

M.S. in Applied Mathematics, *Chinese Academy of Sciences, Beijing, China*

2008

B.S. in Computational Sciences, *Nankai University, Tianjin, China*

2004

RESEARCH TOPICS

deep neural networks, Computer vision, machine learning

AWARDS AND RECOGNITION

- **Program Committee member**

- International Conference on Artificial Intelligence and Statistics (AISTAT 2022, 2023)
- ACM International Conference on Multimedia (ACM MM 2022)
- International Joint Conferences on Artificial Intelligences (IJCAI 2020, 2021, 2022)
- International Symposium on Artificial Intelligence and Mathematics (ISAIM 2020)
- European Conference on Artificial Intelligence, (ECAI 2020)

- **Graduate teaching award, 2013–2014**, Mathematics, Statistics, & Computer Science, UIC

- **Reviewer**

- Applied Network Sciences

PUBLICATIONS AND PREPRINTS

- Yihui Ren Dmitrii Torbunov, Yi Huang, Haiwang Yu, Jin Huang, Shinjae Yoo, Meifeng Lin, Brett Viren, “UVCAN: UNet Vision Transformer cycle-consistent GAN for unpaired image-to-image translation”, **WACV** 2023
- Yi Huang, Victor Rotaru, Ishanu Chattopadhyay, “Sequence Likelihood Divergence For Fast Time Series Comparison”, **Knowledge and Information Systems** 2022
- Victor Rotaru, Yi Huang, Timmy Li, James Evans, Ishanu Chattopadhyay, “Event-level prediction of urban crime reveals a signature of enforcement bias in US cities”, **Nature, human behaviour** 2021
- Yi Huang, Ishanu Chattopadhyay, “Universal risk phenotype of US counties for flu-like transmission to improve county specific COVID-19 incidence forecasts”, **PLOS, Computational Biology** 2021
- Dmytro Onishchenko1, Yi Huang, James van Horne, Peter J. Smith, Michael M. Msall, Ishanu Chattopadhyay, “Reduced false positives in autism screening via digital biomarkers inferred from deep comorbidity patterns”, **Science Advances** 2021
- Victor Rotaru, Yi Huang, Ishanu Chattopadhyay Timesmash, “Process-aware Fast Time Series Clustering and Classification Based on Hidden Stochastic Generators of Physical Processes”, **AAAI-MLPS** 2021
- Yi Huang, Yihui Ren, Shinjae Yoo, Jin Huang, “Efficient Data Compression for 3D Sparse TPC via Bicephalous Convolutional Autoencoder”, **ICMLA** 2021

- Tingran Gao, Shahab Asoodeh, Yi Huang, James Evens, “Wasserstein Soft Label Propagation on Hypergraphs: Algorithm and Generalization Error Bounds”, **AAAI** 2019
- Shahab Asoodeh, Yi Huang, Ishanu Chattopadhyay, “A Tamper-Free Semi-Universal Communication System for Deletion Channels”, **CDC** 2018
- Yi Huang, Mano Vikash Janardhanan, and Lev Reyzin, “Network Construction with Ordered Constraints”, “**FSTTCS** 2017”
- Benjamin Fish, Yi Huang, Lev Reyzin, “Recovering Social Network by Observing Votes”, **AAMAS** 2016
- Yi Huang, Brian Powers, Lev Reyzin, “Training-Time Optimization of a Budgeted Booster”, **IJCAI** 2015