YI HUANG

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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
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)

• Referee

- Applied Network Sciences
- Graduate teaching award, 2013–2014, Mathematics, Statistics, & Computer Science, UIC

Publications and Preprints

- Yihui Ren Dmitrii Torbunov, Yi Huang, Haiwang Yu, Jin Huang, Shinjae Yoo, Meifeng Lin, Brett Viren, "UVCGAN: 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, "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
- \bullet Yi Huang, Mano Vikash Janardhanan, 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