

Tianyu Wang | Curriculum Vitae

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Education

- **Duke University**
Ph.D. student in Computer Science, GPA: 4.0/4.0 Sep 2016–Now
Advisor: Prof. Cynthia Rudin
- **The Hong Kong University of Science and Technology (HKUST)**
B.Sc. (First Class Honors) in Mathematics and Computer Science (Double major) Sep 2011–Dec 2015
- Received the university-level Academic Excellence Award
- **The University of British Columbia**
Exchange student Fall 2014

Fellowships

- **Duke Energy Data Analytics Fellowship**
Project: Lipschitz contextual bandit algorithms with applications to energy efficient monitoring 2018 - 2019
- awarded by the Alfred P. Sloan Foundation

Publications

- **A Practical Bandit Method with Advantages in Neural Network Tuning**
Tianyu Wang, Dawei Geng, Cynthia Rudin
arXiv:1901.09277, 2019
- **FLAME: A Fast Large-scale Almost Matching Exactly Approach to Causal Inference**
Sudeepa Roy*, Alexander Volfovsky*, Cynthia Rudin*, Tianyu Wang*
arXiv:1707.06315, 2017
* : equal contribution
- **ParkVis: A Visual Analytic System for Anomaly Detection in DinoFun World**
Abishek Puri, Dongyu Liu, Shaoyu Chen, Siwei Fu, Tianyu Wang, Yeukyin Chan, Huamin Qu
2015 IEEE Conference on Visual Analytics Science and Technology (VAST)
 - Honorable Mention for Good Cross-Visualization Interactions in VAST Challenge 2015

Awards

- **Honorable Mention at IEEE VIS 2015**
Honorable Mention for Good Cross-Visualization Interactions in VAST Challenge 2015 Oct 2015
- **Research in Industrial Projects for Students (RIPS)** UCLA IPAM & HKUST
A monetary award was given to students who entered this program Summer 2014
- **Academic Excellence Award** HKUST
Awarded to top 5% students

Work Experience

- **State Street**
Research Intern (Machine Learning for Fraud Detection) Jun - Aug 2018
- **Chuangyi Education and Technology**
Intern (Web development and data analytics) Jun - Aug 2016

- Chuangyi Education and Technology is now part of XuetangX, jointly supported by Tsinghua university and EdX.

Research Assistant

- *Supervisor: Prof. Mordecai Golin at HKUST* *Jan - May 2016*
Project: Graph Algorithms and its Applications to Evacuation Plan Design.

Teaching Experience

- **Machine Learning (Graduate Course)**
Teaching Assistant *Spring 2018*
- **Design and Analysis of Algorithms (Undergraduate Course)**
Teaching Assistant *Spring 2017*

Other Research Experience & Projects

- **Graph Theory and Graph-Based Semi-Supervised Learning** **HKUST**
Advisor: Prof. Mordecai Golin *Summer 2015*
 - PageRank and Label Propagation for Collaboration Network of HKUST professors.
- **Data Visualization** **HKUST**
Advisor: Prof. Huamin Qu *Summer 2015*
- **Parameter Optimization for Weather Forecasting Systems**
Advisors: Prof. Shingyu Leung and Dr. Pieter Tibboel *Summer 2014*
 - Elite research program jointly supported by UCLA Institute for Pure and Applied Mathematics (IPAM) and HKUST
- **Asymptotic Methods for High Frequency Wave Phenomena** **HKUST**
Advisor: Prof. Shingyu Leung *Spring 2013*
 - Simulation, parameter tuning and plotting for quantum tunneling effects with uniform and Gaussian potential barriers in 2D space.

Skills

- **Programming Languages:** Python (intermediate), C++ (basic).