

Ziyang Tang

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EDUCATION	University of Texas at Austin , Austin, TX <i>Ph.D</i> , Department of Computer Science	2016.09 – 2023.05
	Cornell University , Ithaca, NY <i>Master of Engineering</i> , Department of Computer Science	2015.09 – 2016.05.29
	Cornell University , Ithaca, NY <i>Exchange Student</i> , Department of Computer Science	2014.09 – 2015.05
	Peking University , Beijing, China <i>Bachelor of Science</i> , School of EECS	2011.09 – 2015.07
RESEARCH & INDUSTRY EXPERIENCE	Applied Scientist, Amazon, Seattle, WA.	2024.01 – Present
	Research Scientist, Amazon, Seattle, WA.	2021.09 – 2023.12
	Research Intern, Bytedance, Seattle, WA.	2020.06 – 2020.08
	Graduate Research Assistant, UT Austin, Austin, TX	2017.09 – 2021.08
PROFESSIONAL ACTIVITY	Conference reviewer/ PC member	
	<ul style="list-style-type: none">• Conference on Neural Information Processing Systems (NeurIPS) 2018 - 2023• International Conferences on Machine Learning (ICML) 2019 - 2023• International Conferences on Learning Representations (ICLR) 2020 - 2022• AAAI Conference on Artificial Intelligence (AAAI) 2020 - 2022	
	Journal Reviewer	
	<ul style="list-style-type: none">• IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)• Journal of Machine Learning Research (JMLR)• Transactions on Machine Learning Research (TMLR)	
TEACHING EXPERIENCE	Teaching Assistant	
	<ul style="list-style-type: none">• CS391L Machine Learning (web-based), Fall 2020, Spring 2021, UT Austin, Instructor: Adam Klivans & Qiang Liu.• CS331 Algorithm and Complexity, Fall 2019, Spring 2019, UT austin, Instructor: Dana Moshkovitz• CS331 Algorithm and Complexity, Spring 2020, Fall 2018, 2016, UT austin, Instructor: Fares Fraij• CS331 Algorithm and Complexity, Fall 2017, Spring 2017(Honor Track), UT austin, Instructor: Eric Price	
HONOR and AWARD	Honor:	
	<ul style="list-style-type: none">• Dean's Honor List• Kuang-Hua Scholarship(top 10%)• Robin Li Scholarship(top 5%)• Tian Chuang Scholarship(top 10%)	Cornell University Peking University, 2014.10 Peking University, 2013.10 Peking University, 2012.10
	Award:	
	<ul style="list-style-type: none">• Googl Student Travel Award• 2014 Mathematical Contest in Modeling (MCM), Meritorious Winner	

- **3rd place** in 2015 Peking University AI bot competition (among 125 participants)
- **First prize** in 2008,2009,2010 National Mathematical Contest for High School Students, ranked **17th, 20th, 12th** in Guangdong Province respectively(over 1000 participants).
- **First prize** in 2009 Chinese Hong Kong Mathematical Olympiad(CHKMO). **Second Place** among all participants

PUBLICATION Pre-print

- **Ziyang Tang**, Yiheng Duan, Stephanie Zhang, and Lihong Li.
A Reinforcement Learning Approach to Estimating Long-term Treatment Effects. arXiv preprint arXiv:2210.07536 (2022).
- Liu Liu, **Ziyang Tang**, Lanqing Li, Dijun Luo.
Robust Imitation Learning from Corrupted Demonstrations. arXiv preprint arXiv:2201.12594 (2022).
- Xing han*, **Ziyang Tang***, Joydeep Ghosh, Qiang Liu.
Split Localized Conformal Prediction. arXiv preprint arXiv:2206.13092 (2022).
- **Ziyang Tang**, Yihao Feng, and Qiang Liu.
Operator Deep Q-Learning: Zero-Shot Reward Transferring in Reinforcement Learning. arXiv preprint arXiv:2201.00236 (2022).

Refereed Conference Papers

- **Ziyang Tang**, Yiheng Duan, Steven Zhu, Stephanie Zhang, Lihong Li.
Estimating Long-term Effects from Experimental Data. In Proceedings of the 16th ACM Conference on Recommender Systems, pp. 516-518. 2022.
- Yihao Feng*, **Ziyang Tang***, Na Zhang, Qiang Liu.
Non-asymptotic Confidence Intervals of Off-policy Evaluation: Primal and Dual Bounds. In International Conference on Learning Representations(ICLR). 2021.
- **Ziyang Tang**, Yihao Feng, Na Zhang, Jian Peng, Qiang Liu.
Off-Policy Interval Estimation with Lipschitz Value Iteration. In Advances in Neural Information Processing Systems(NeurIPS), 2020.
- Yihao Feng*, Tongzheng Ren*, **Ziyang Tang***, Qiang Liu.
Accountable Off-Policy Evaluation With Kernel Bellman Statistics. In International Conference on Machine Learning(ICML). 2020.
- **Ziyang Tang***, Yihao Feng*, Lihong Li, Dengyong Zhou, Qiang Liu.
Doubly Robust Bias Reduction in Infinite Horizon Off-Policy Estimation. In International Conference on Learning Representations(ICLR). 2020.
- Dilin Wang*, **Ziyang Tang***, Chandrajit Bajaj, Qiang Liu.
Stein Variational Gradient Descent With Matrix-Valued Kernels. In Advances in Neural Information Processing Systems 32, pp. 7836–7846(NeurIPS). 2019.
- Qiang Liu, Lihong Li, **Ziyang Tang**, and Dengyong Zhou.
Breaking the curse of horizon: Infinite-horizon off-policy estimation. In Advances in Neural Information Processing Systems, pp. 5357-5367(NeurIPS). 2018.
- Chaoyi Wang, Hao Chen, Zihan Lei, **Ziyang Tang**, Tian Liu, and Ke Xu.
Tree Convex Bipartite Graphs: \mathcal{NP} -Complete Domination, Hamiltonicity and Treewidth. In International Workshop on Frontiers in Algorithmics, pp. 252-263. Springer, Cham, 2014.

Journal Papers:

- Hao Chen, Zihan Lei, Tian Liu, **Ziyang Tang**, Chaoyi Wang, and Ke Xu.
Complexity of domination, hamiltonicity and treewidth for tree convex bipartite graphs. Journal of Combinatorial Optimization 32, no. 1 (2016): 95-110.

**COMPUTER
SKILLS**

- *Programming language:* Python, C/C++, Matlab, php, java, javascript, pascal
- *Machine Learning Package:* Tensorflow, Pytorch, pandas, Numpy
- *Software:* Github, L^AT_EX