

Qi (Rose) Yu

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RESEARCH	Large-Scale Spatiotemporal Learning, Deep Learning, Tensor Methods, and their applications.	
CURRENT APPOINTMENT	University of California, San Diego , La Jolla, California <i>Assistant Professor, Department of Computer Science and Engineering</i>	July 2020 - Present
PREVIOUS APPOINTMENT	Northeastern University , Boston, Massachusetts <i>Assistant Professor, Khoury College of Computer Sciences</i> <i>Network Science Institute, College of Engineering, Physics (By Courtesy)</i>	Aug 2018 - June 2020
	California Institute of Technology , Pasadena, California <i>Postdoctoral Scholar, Computing + Mathematical Sciences</i> • Advisors: Anima Anandkumar, Yisong Yue	Aug 2017 - Aug 2018
EDUCATION	University of Southern California , Los Angeles, California <i>Ph.D., Computer Science, Computer Science Department</i> <i>Thesis: Tensor Learning for Large-Scale Spatiotemporal Analysis</i> <i>Finalist in William F. Ballhaus, Jr. Prize for Excellence in Graduate Engineering Research</i>	Aug 2012 - Aug 2017
	Zhejiang University , Hangzhou, Zhejiang, PRC <i>B.S in Computer Science, Chu Kochen Honors College</i>	Aug 2008 - June 2012
SELECTED AWARDS AND HONORS	AWS Machine Learning Research Awards , Amazon Science, 2020 Adobe Data Science Research Awards , Adobe Research, 2020 Google Faculty Research Award , Google Research, 2019-2020 Best Paper Award , NeurIPS Machine Learning for Public Health, 2020 Best Dissertation Award , University of Southern California, 2018 Best Paper Award , NIPS Time Series Workshop, 2017 SIGKDD Scholarship , ACM 50th Celebration of the Turing Award, San Francisco, 2017 Rising Stars in EECS , 40 Awardees in North America, MIT, 2015 Annenberg Graduate Fellowship , University of Southern California, 2012 Selected in ACM Heidelberg Laureate Forum , University of Heidelberg, 2013 Microsoft 2011 Young Fellowship , Microsoft Research Asia, 2011 International Forum (iF) Design Hanover Global Concept Award , iF, 2010	

SELECTED
CONFERENCE
PUBLICATIONS

- [C1] Robin Walters, Jinxi (Leo) Li, Rose Yu "Trajectory Prediction using Equivariant Continuous Convolution", In *International Conference on Learning Representations (ICLR)*, 2021
- [C2] Rui Wang, Robin Walters, Rose Yu "Incorporating Symmetry into Deep Dynamics Models for Improved Generalization", In *International Conference on Learning Representations (ICLR)*, 2021
- [C3] Fan Xie, Alex Chowdhury, Clara De Paolis, Linfeng Zhao, Lawson Wong, Rose Yu "Deep Imitation Learning for Bimanual Robotic Manipulation" In Proceeding of *Advances in Neural Information Processing Systems (NeurIPS)*, 2020
- [C4] Armand Comas Massague, Chi Zhang, Zlatan Feric, Octavia Camps, Rose Yu "Learning Disentangled Representations of Video with Missing Data" In Proceeding of *Advances in Neural Information Processing Systems (NeurIPS)*, 2020
- [C5] Jung Yeon Park, Kenneth Theo Carr, Stephan Zheng, Yisong Yue, Rose Yu "Multiresolution Tensor Learning for Efficient and Interpretable Spatial Analysis" In Proceedings of *the 32th International Conference on Machine Learning (ICML)*, 2020
- [C6] Rui Wang, Adrian Albert, Karthik, Kashinath, Mustafa, Mustafa, Rose Yu. "Towards Physics-informed Deep Learning for Spatiotemporal Modeling of Turbulent Flows", In Proceeding of *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2020
- [C7] Nima Dehmamy, Albert-László Barabási, Rose Yu. "Understanding the Representation Power of Graph Neural Networks in Learning Graph Topology" In Proceeding of *Advances in Neural Information Processing Systems (NeurIPS)*, 2019
- [C8] Yukai Liu, Rose Yu, Stephan Zheng, Eric Zhan, Yisong Yue. "NAOMI: Non-Autoregressive Multiresolution Sequence Imputation" In Proceeding of *Advances in Neural Information Processing Systems (NeurIPS)*, 2019
- [C9] Yaguang Li, Rose Yu, Cyrus Shahabi, Yan Liu "Diffusion Convolutional Recurrent Neural Network: Data-Driven Traffic Forecasting" In Proceedings of *International Conference on Learning Representations (ICLR)*, 2018
- [C10] Rose Yu, Guangyu Li, Yan Liu. "Tensor regression meets Gaussian Processes." In Proceedings of *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2018

SELECTED INVITED
TALKS

AAAI 2020 Symposium on Physics-Guided AI for Accelerating Scientific Discovery	Nov 2020
Physics Informed Machine Learning workshop, Los Alamos National Lab	Jan 2020
ICLR 2019 Workshop on Deep Generative Models, New Orleans	May 2019
Keynote Speaker , Climate Informatics 2018 (CI 2018),	Sep 2018
Henry L. Pierce Laboratory Seminar Series, MIT,	Sep 12, 2018

ACADEMIC SERVICE **Workshop Co-organizer**

NeurIPS Workshop on Machine Learning for Engineering, 2020
 ICML Time Series Workshop, 2019
 ICML Time Series Workshop, 2017
 NIPS Woman in Machine Learning Workshop, 2016
 NIPS workshop on Learning with Tensors: Why Now and How? (Tensor-Learn), 2016

Senior Program Committee (or Area Chair)

ICML(2021, 2020), ICLR (2021), NeurIPS (2020), AAAI (2020, 2021), IJCAI (2020), SDM (2020)