

Tao Li

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- Education** **PhD student in Electrical Engineering,** Expected 2023
Research on Reinforcement Learning, Game Theory, Optimization
Supervisor: Dr. Quanyan Zhu
New York University, NY, US
- Bachelor of Science in Mathematics,** Sept. 2014-June 2018
Specialization in Applied Mathematics
Honors Thesis: Weighted Inequalities for Some Integral Operators with
Rough Kernels in Weighted Morrey Space, advised by Dr. Huoxiong Wu
Xiamen University, Fujian, China
- Employment** **Research Assistant** Sept. 2018-present
Department of Electrical and Computer Engineering
New York University
- Visiting
Position** **Visiting Researcher** June 2017-Oct. 2017
Department of Mathematical and Statistical Sciences,
University of Alberta
Applied Harmonic Analysis Group
Host: Dr. Bin Han
- Visiting Student** Aug. 2016
St John's College, Cambridge University
Host: Dr. Annis May Timpson
- Research
Interests** • Multiscale methods in Reinforcement Learning
 • Security of Multiagent systems
 • Large scale distributed optimization
- Publication** **Tao Li,** Quanyan Zhu, “On Convergence Rate of Adaptive Multiscale
Value Function Approximation For Reinforcement Learning”, *2019 IEEE
28th International Workshop on Machine Learning for Signal Processing
(MLSP)*(to appear)
Bin Han*, **Tao Li***, Xiaosheng Zhuang*. “Directional compactly sup-
ported box spline tight framelets with simple geometric structure.” *Applied
Mathematics Letters* 91 (2019): 213-219.(*equal contribution)
- Invited Talks** • Directional Framelets and its Application in Medical Imaging, PIMS-
AMI Workshop on Applied Harmonic Analysis, University of Alberta,
Aug. 2017

- Solving PDE using Directional Tensor-Product Wavelets, Seminar series on Numerical PDE, High Performance Computing Center, Xiamen University, Mar. 2018

Honors and Awards

- Best Student Paper Finalist¹, IEEE MLSP 2019
- Honor Degree of B.Sc in Mathematics, Xiamen University, 2018
- NSERC Mitacs-Globalink Research Award, University of Alberta, 2017
- Academic Excellence Scholarship-first class, Xiamen University, 2016
- First Prize in Undergraduate Mathematical Contest in Modeling, 2016
- First Prize in National Mathematical Competition, 2015
- National Scholarship, Ministry of Education of China, 2015
- The Elite Undergraduate Training Program of Math, Ministry of Education of China, 2015-2018

¹the award remains to be announced