Вотао Нао

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RESEARCH INTERESTS

Reinforcement Learning, Online Learning & Multi-Armed Bandits, Statistical Machine Learning, Tensor Learning, Recommender Systems & Online Advertising

EDUCATIONS

Ph.D. in Statistics Sep. 2014 - Dec. 2019

Department of Statistics, Purdue University

Thesis Advisor: Dr. Guang Cheng

B.S. in Statistics Sep. 2010 - Aug. 2014

School of Mathematics, Nankai University Thesis Advisor: Dr. Changliang Zou

EXPERIENCES

▲ Department of Electrical Engineering, Princeton University, NJ Dec. 2019 - Present

Postdoctoral Researcher

Mentor(s): Dr. Mengdi Wang

▲ School of Mathematics, Institute for Advanced Study, NJ Jan. 2020 - Apr. 2020

Visiting Researcher

▲ Deepmind, London, UK May 2019 - Sep. 2019

Research Intern

Mentor(s): Dr. Tor Lattimore, Dr. Csaba Szepesvári

▲ Adobe Research, San Jose, CA May 2018 - Aug. 2018

Research Intern

Mentor(s): Dr. Zheng Wen

JOURNAL PUBLICATIONS

▲ Sparse and Low-rank Tensor Estimation via Cubic Sketchings

Botao Hao, Anru Zhang, and Guang Cheng

IEEE Transactions on Information Theory (2020).

Accepted in part to AISTATS 2020. [ArXiv]

▲ Nonparametric Bayesian Aggregation for Massive Data

Zuofeng Shang, Botao Hao, and Guang Cheng

Journal of Machine Learning Research (2019). [ArXiv]

▲ Simultaneous Clustering and Estimation of Heterogeneous Graphical Models

Botao Hao, Will Wei Sun, Yufeng Liu, and Guang Cheng

Journal of Machine Learning Research (2018). [ArXiv]

CONFERENCE PUBLICATIONS

▲ Bootstrapped Upper Confidence Bound

Botao Hao, Yasin Abbasi-Yadkori, Zheng Wen, and Guang Cheng *NeurIPS 2019*. [ArXiv]

▲ Adaptive Exploration in Linear Contextual Bandit

Botao Hao, Tor Lattimore, and Csaba Szepesvári

AISTATS 2020. [ArXiv]

PREPRINTS

- **▲** Sparse Tensor Additive Regression
 - **Botao Hao**, Boxiang Wang, Pengyuan Wang, Emma Jingfei Zhang, Jian Yang and Will Wei Sun *Submitted*. [ArXiv]
- ▲ Provably Efficient Adaptive Approximate Policy Iteration

 Botao Hao, Nevena Lazic, Yasin Abbasi-Yadkori, Pooria Joulani and Csaba Szepesvári Submitted. [ArXiv]
- ▲ Residual Bootstrap Exploration for Bandit Algorithms Chi-Hua Wang*, Yang Yu*, **Botao Hao**, Guang Cheng Submitted. [ArXiv]

HONORS AND AWARDS

▲ Bilsland Dissertation Fellowship

2019-2020

Nominated and selected by members of the graduate faculty to support outstanding Ph.D. candidates in the final year of doctoral degree completion across the whole university.

▲ NeurIPS 2019 Travel Award

INVITED TALKS

▲ Deepmind for Google, Mountain View, CA	Jan. 2020
▲ Institute of Statistics, Nankai University, Tianjin	Dec. 2018
▲ International Conference on Data Science, Shanghai	Dec. 2017
▲ The 25th ICSA Applied Statistics Symposium, Chicago	Jun. 2017
▲ Conference on Statistical Learning and Data Science, Chapel Hill, NC	Jun. 2016

TEACHING EXPERIENCES

- ▲ Lab Instructor, STAT 301: Elementary Statistical Methods, Spring 2015, Summer 2015, Fall 2015
- ▲ Lab Instructor, STAT 113: Statistics and Society, Summer 2017
- ▲ Grader, STAT 519: Introduction to Probability Theory, Fall 2014, Spring 2015, Fall 2016, Fall 2017
- ▲ Grader, STAT 516: Basic Probability and Applications, Fall 2015

SERVICES

- ▲ Co-chair of Ubicomp 2019 Workshop on Continual and Multimodal Learning for Internet of Things, London, UK
- ▲ Reviewers for Journals: Journal of the American Statistical Association, Journal of Machine Learning Research, Journal of Multivariate Analysis, Computational Statistics and Data Analysis, The IEEE Control Systems Letters, Statistica Sinica, Biostatistics
- ▲ Reviewers for Conferences: NeurIPS 2019, AISTATS 2020, ICML 2020, UAI 2020