# 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 - Present

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**

▲ 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

▲ Nonparametric Bayesian Aggregation for Massive Data Zuofeng Shang, **Botao Hao**, and Guang Cheng

Journal of Machine Learning Research, To appear. [ArXiv]

▲ Simultaneous Clustering and Estimation of Heterogeneous Graphical Models Botao Hao, Will Wei Sun, Yufeng Liu, and Guang Cheng Journal of Machine Learning Research, 18(217):1-58. [ArXiv]

#### **CONFERENCE PUBLICATIONS**

▲ Bootstrapped Upper Confidence Bound

Botao Hao, Yasin Abbasi-Yadkori, Zheng Wen, and Guang Cheng

Neural Information Processing Systems 32 (NeurIPS), 2019. [ArXiv]

#### **PREPRINTS**

▲ Sparse and Low-rank Tensor Estimation via Cubic Sketchings

Botao Hao, Anru Zhang, and Guang Cheng

Submitted. [ArXiv]

**▲** Sparse Tensor Additive Regression

**Botao Hao**, Boxiang Wang, Pengyuan Wang, Emma Jingfei Zhang, Jian Yang and Will Wei Sun *Submitted*. [ArXiv]

▲ Adaptive Exploration in Linear Contextual Bandit

Botao Hao, Tor Lattimore, and Csaba Szepesvári

Preprint.

# 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.

### **INVITED TALKS**

▲ 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

#### **S**ERVICES

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