

XIAOQIAN (DANA) YANG

Postdoctoral Associate, The Fuqua School of Business, Duke University
Supervisor: Prof. Jiaming Xu

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EDUCATION

Yale University <i>Ph.D. in Statistics & Data Science</i>	2014 - 2019
Advisors: Prof. David Pollard, Prof. Yihong Wu, Prof. John Lafferty	
Research interests: Bayesian analysis, privacy, fairness in machine learning, random graphs, non-convex optimization, nonparametric estimation	
Thesis: “A few topics in statistics”	
Yale University <i>M.A. in Statistics</i>	2013-2014
Tsinghua University <i>B.S. in Mathematics</i>	2009-2013
University of Washington <i>Exchange student in Mathematics & Statistics</i>	Spring 2012

PUBLICATIONS AND PREPRINTS

1. Jian Ding, Yihong Wu, Jiaming Xu and Dana Yang, “Consistent recovery threshold of hidden nearest neighbor graphs”, *arXiv preprint arXiv:1911.08004*, 2019.
2. Dana Yang, “Posterior asymptotic normality for an individual coordinate in high-dimensional linear regression”, *Electronic Journal of Statistics*, 13(2), pages 3082-3094, 2019.
3. Jiaming Xu and Dana Yang, “Optimal query complexity for private sequential learning”, *arXiv preprint arXiv:1909.09836*, 2019.
4. Pierre C. Bellec and Dana Yang, “The cost-free nature of optimally tuning Tikhonov regularizers and other ordered smoothers”, *arXiv preprint arXiv: 1905.12517*, 2019.
5. Jason M. Klusowski, Dana Yang and W.D. Brinda, “Estimating the coefficients of a mixture of two linear regressions by expectation maximization”, *IEEE Transactions on Information Theory*, 65(6), pages 3515-3524, 2019.
6. W.D. Brinda, Jason M. Klusowski and Dana Yang, “Hölder’s identity”, *Statistics & Probability Letters*, Volume 148, Pages 150-154, 2019.
7. David Pollard and Dana Yang, “Rapid mixing of a Markov chain for the exponentially weighted aggregation estimator”, *arXiv preprint arXiv: 1909.11773*, 2019.
8. John Lafferty and Dana Yang, “Fair quantile regression”, *arXiv preprint arXiv: 1907.08646*, 2019.
9. Victor-Emmanuel Brunel, Jason M. Klusowski and Dana Yang, “Estimation of convex supports from noisy measurements”, *under revision for Bernoulli*, 2018.
10. Kun Tian, Xiaoqian Yang, Qin Kong, Changchuan Yin, Rong L. He and Stephen S-T Yau, “Two dimensional Yau-Hausdorff distance with applications on comparison of DNA and protein sequences”, *PloS one*, 10(9), 2015.

11. Sören R. Künnel, David Pollard and Dana Yang, “Remarks on Kneip’s linear smoothers”, *arXiv preprint arXiv: 1405.1744*, 2014.

AWARDS AND HONORS

Francis J. Anscombe Award for Academic Excellence

Department of Statistics and Data Science, Yale University

May 2019

RESEARCH EXPERIENCE

Postdoctoral Associate at The Fuqua School of Business, Duke University

Aug 2019 - present

Supervisor: Prof. Jiaming Xu, Assistant Professor at the Fuqua School of Business, Duke University

Research Assistant at Emonet Lab, Yale University

Mar 2016 - Mar 2017

Supervisor: Prof. Thierry Emonet, Associate Professor of Molecular, Cellular & Developmental Biology and Physics, Yale University

Project: Detection of behavioral patterns of Escherichia coli (E. coli) bacteria.

TEACHING EXPERIENCE

Primary Instructor: responsible for designing and teaching a 25-lecture course.

- S&DS S107: Introduction to Statistics, Yale University, Summer 2017.

Teaching Fellow: responsible for holding recitations/office hours, grading, and occasionally giving lectures.

- S&DS 625: Statistical Case Studies, Yale University, Fall 2016.
- S&DS 610: Statistical Inference, Yale University, Fall 2016.
- S&DS 551: Stochastic Processes, Yale University, Spring 2016.
- S&DS 600: Advanced Probability, Yale University, Spring 2016.
- S&DS 538: Probability and Statistics, Yale University, Fall 2015.
- S&DS 661: Data Analysis, Yale University, Fall 2015.
- S&DS 600: Advanced Probability, Yale University, Spring 2015.
- S&DS 610: Statistical Inference, Yale University, Fall 2014.
- S&DS 103: Introduction to Statistics: Social Sciences, Yale University, Fall 2013.

TALKS AND PRESENTATIONS

Probability Seminar Series, Department of Mathematics, Duke University Oct 2019

Decision Science Seminar Series, The Fuqua School of Business, Duke University Mar 2019

Statistics + Machine Learning Reading Group, Yale University Nov 2018

SMIL@Y Research and Reading Meeting, Yale University Feb 2018, Sep 2018

Joint Statistical Meetings Aug 2016

Yale Probability Network Group Apr 2014, Apr 2015

PROGRAMMING SKILLS

R, Python

- Top 3000 competitors, Google Code Jam, 2015.
- Second prize in the National Computing Olympiad, China, 2009.

SERVICE

Yale S&DS Data Clinic 2016-2019

Consultant: weekly meetings mostly with Yale researchers; in charge of computational interactions.

Yale S&DS M.A. admissions committee 2015-2019

Reviewer: one of four committee members handling over 300 applications each year and making admission recommendations.

Yale YHack competition 2018

Judge: reviewing around 50 submitted computational projects.

Yale S&DS Graduate Student Seminar Series 2018

Organizer: scheduling talks and leading discussions.

Occasional reviewer for Bernoulli 2015, 2019