

Curriculum Vitae

Jinxin Xia

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Education

2020 Winter	M.A. in Mathematical Statistics Wake Forest University, Winston-Salem, NC Thesis Title: “L-BFGS Optimization Methods for Large-scale Problems”
2018	B.S. in Statistics, Finance (Dual Degree program with Sichuan University) Colorado State University, Fort Collins, CO
2016	B.M. in Labor and Social Security Sichuan University, Chengdu, China

Research

May - Aug 2019	Genotype Quality Control of Genetic Markers
May - Aug 2020	Batch Effects for Microbiome and Metabolomic Data <i>Department of Biostatistics and Data Science, Wake Forest University</i> Mentor: Dr. Carl Langefeld
May - Sep 2020	Efficient and Scalable Algorithm for Clustering via Partitioned Local Depth <i>Department of Computer Science, Wake Forest University</i> Mentor: Dr. Grey Ballard
May 2019 - Present	Optimization Methods for Large-scale Problems in Computational Genomics <i>Department of Mathematics and Statistics, Wake Forest University</i> Mentor(Thesis Advisor): Dr. Jennifer Erway (NSF IIS-1741264)

Teaching

May 2019 - Present	Teaching Assistant <i>Department of Mathematics and Statistics, Wake Forest University</i> ST 656 Numerical Methods, MST 652 Numerical Linear Algebra, MST 107 Explorations in Mathematics
Jan 2019 - Present	Math and Statistics Tutor, Lead Tutor since Jan 2020 <i>Department of Mathematics and Statistics, Wake Forest University</i>

Presentations

- Jinxin Xia. *Finding Optimization methods for large scale problem.* Association for Women in Mathematics Wake Forest Chapter Brown Bag Seminar. Oct. 18, 2019
- Jinxin Xia. *Batch effects for microbiome data debrief.* Langefeld’s Lab Meeting. Aug. 15, 2019
- Jinxin Xia. *Fast Matrix Multiplication Challenges and Approaches.* Ballard Research Group Summer Research Report Meeting. Aug. 5, 2019

Technical Skills*Software & Programming*

R, Linux shell, Python, MATLAB, Git, Conda, L^AT_EX, C/C++(Basic)

Advanced Courses

Generalized Linear Models, Network, Stochastic Processes, Statistical Inference
Real Analysis, Measure Theory, Numerical Optimization, Numerical Linear Algebra

Honors and awards

Wake Forest University Partial Scholarship (2019)

Global Association of Risk Professional Research Fellowship (2017)

IMA Financial Group, Inc. Scholarship at Colorado State University (2016)

First Scholarship at Sichuan University (2013)