

Duzhe Wang

CONTACT INFORMATION	Eli Lilly and Company 893 Delaware St Indianapolis, IN 46225	<i>Phone:</i> (352) 281-9796 <i>E-mail:</i> duzhe.stat@gmail.com <i>Homepage:</i> https://duzhewang.github.io/
RESEARCH INTERESTS	Statistical machine learning, high-dimensional statistics, robust statistics, optimization, causal inference	
EMPLOYMENT	The Statistics, Data, and Analytics Division, Eli Lilly and Company Research Scientist, Jan. 2021 - present	Indianapolis, IN
	Advanced Analytics and Data Sciences, Eli Lilly and Company Research Intern in Machine Learning, May 2019-Aug. 2019 <ul style="list-style-type: none">• Supervisor: Haoda Fu• Developed boosting algorithms for individualized treatment recommendation	Indianapolis, IN
EDUCATION	University of Wisconsin-Madison Ph.D. in Statistics, December 2020 Minor in Computer Science (machine learning track) <ul style="list-style-type: none">• Dissertation: “Efficient statistical learning of complex data”• Advisor: Po-Ling Loh	Madison, WI
	University of Florida M.S. in Mathematics, May 2015 <ul style="list-style-type: none">• Cumulative GPA: 4.0/4.0	Gainesville, FL
	Jilin University B.S. in Mathematics, June 2013 <ul style="list-style-type: none">• Major GPA: 91/100, overall rank: 2/100	Changchun, China
HONORS AND AWARDS	JSM Virtual Travel Award, ASA Wisconsin Chapter, 2020 Student Paper Award, ASA Statistical Learning and Data Science Section, 2020 Student Paper Award, ASA Biopharmaceutical Section, 2020 Graduate Scholarship, UW-Madison, 2015 - 2020 Graduate Scholarship, UF, 2013 - 2015 Outstanding Graduate Award, UF, 2014 & 2015 Outstanding Undergraduate Student Award, Jilin University, 2013 Ping An Scholarship, Ping An Insurance of China, 2012 Outstanding Undergraduate Researcher Award, Jilin University, 2012 First Prize in Mathematical Contest in Modeling, Jilin University, 2011 Undergraduate Scholarship, Jilin University, 2009 - 2013	

PUBLICATIONS	Wang, D. and Loh, P. 2020. Robust estimation in high-dimensional sparse heteroscedastic linear models.
	Wang, D. and Loh, P. 2020. Adaptive estimation and statistical inference for high-dimensional graph-based linear models.
	Wang, D., Fu, H., and Loh, P. 2020. Boosting algorithms for estimating optimal individualized treatment rules.
PRESENTATIONS	Boosting algorithms for estimating optimal individualized treatment rules. JSM Virtual Conference, 2020.
	Boosting algorithms for estimating optimal individualized treatment rules. Invited talk at Eli Lilly and Company, 2020.
	Boosting algorithms for estimating optimal individualized treatment rules. Invited talk at Boehringer Ingelheim, 2020.
	Boosting algorithms for individualized treatment recommendation. ENAR Spring Meeting, 2020.
	Estimating graph-based regression coefficients in high-dimensional linear models. Midwest Machine Learning Symposium, 2018.
TEACHING EXPERIENCE	Instructor Department of Statistics, UW-Madison & Department of Mathematics, UF Taught large undergraduate classes (around 140 students per semester), coordinated with other instructors, supervised a group of teaching assistants, constructed the course website, and developed the teaching material
	<ul style="list-style-type: none"> • STAT324: Introductory Applied Statistics for Engineers Fall 2019 & Spring 2019 • STAT371: Introductory Applied Statistics for Life Sciences Spring 2018 & Fall 2017 • MGF1107: Math for LS Majors Summer 2015 • MAC2311: Calculus I Summer 2014
	Teaching assistant Department of Statistics, UW-Madison & Department of Mathematics, UF Led discussions (around 3 sessions per semester), wrote weekly quizzes, administered online homework, graded all assessments, and interacted individually with students during office hours. Ranked top percent in TA evaluation
	<ul style="list-style-type: none"> • STAT641: Statistical Methods for Clinical Trials Spring 2017 • STAT311: Mathematical Statistics Spring 2017 • STAT324: Introductory Applied Statistics for Engineers Fall 2016 & 2015 • STAT371: Introductory Applied Statistics for Life Sciences Summer 2016 & Spring 2020 • STAT327: R programming Spring 2016 • STAT479: Statistical Machine Learning Spring 2016 • MAC2311: Calculus I Spring 2015, Fall 2014 & Spring 2014 • MAC1147: Precalculus Fall 2013
PROFESSIONAL SERVICE AND LEADERSHIP	Reviewer, Annals of the Institute of Statistical Mathematics Reviewer, Journal of Machine Learning Research (JMLR) Reviewer, Journal of the Royal Statistical Society: Series B Reviewer, Statistical Science Reviewer, Biometrika Student representative, Statistics Department Climate and Diversity Committee, 2018 - 2019

President, UW-Madison Statistics Graduate Student Association, 2017 - 2018
Founder, UW-Madison ASA Student Chapter, 2017
Vice President, Jilin University Mathematical Modeling Association, 2009 - 2011

SKILLS

- Computer Skills: R, Python, Matlab, SAS (SAS Certified Base Programmer for SAS 9 & SAS Certified Advanced Programmer for SAS 9), Github, Linux, SQL, L^AT_EX
- Languages: English(fluent), Chinese(native)