

MONA AZADKIA

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EMPLOYMENT

- **ETH Zürich, Department of Mathematics** *Sep 2020 - Oct 2022*
Postdoctoral Researcher, Supervised by Prof. Peter Bühlmann

EDUCATION

- **Stanford University** *Sep 2015 - Sep 2020*
Ph.D. student in Statistics, Advised by Prof. Sourav Chatterjee, Overall GPA: 3.8/4. Defended on 20 May 2020
- **Sharif University of Technology** *Sep 2012 - Aug 2014*
M.S. in Mathematics (Thesis: Phase Transition in Hard Computational Problems, Advised by Dr. Alishahi and Dr. Haji Mirsadeghi), Overall GPA: 18.88/20
- **Sharif University of Technology** *Sep 2008 - June 2012*
B.S. in Pure Mathematics (Thesis: Non-linear Filtering and Martingale Theory, Advised by Dr. Alishahi), Overall GPA: 17.52/20

TEACHING EXPERIENCES

- **ETH Zürich** *Lecturer*
 - Student Seminar in Statistics: Statistical Network Modeling, with Professor Peter Bühlmann *2020-2021 Spring*
- **Stanford University** *Teaching Assistant*
 - Introduction to Stochastic Processes II (STATS 218), Sourav Chatterjee *2015-2016 Spring*
 - Statistical Methods in Engineering and the Physical Sciences (STATS 110), Timothy Daley *2016-2017 Autumn*
 - Introduction to Time Series Analysis (STATS 207), David Donoho *2016-2017 Spring*
 - Introduction to Statistical Learning (STATS 216v), Trevor Hastie *2016-2017 Summer*
 - Theory of Statistics I (STATS 300A), Iain Johnstone *2017-2018 Autumn*
 - Theory of Probability I (STATS 310A), Sourav Chatterjee *2018-2019 Autumn*
 - Theory of Probability II (STATS 310B), David Siegmund *2018-2019 Winter*
 - Introduction to Statistical Methods (STATS 60), Michael Baiocchi *2018-2019 Spring*
 - Introduction to Statistical Learning (STATS 216v), Ismael Lemhadri *2018-2019 Summer*
 - Introduction to Nonparametric Statistics (STATS 205), Tengyu Ma *2019-2020 Autumn*
 - Introduction to Statistical Methods (STATS 60), Nicholas Cook *2019-2020 Spring*
 - Introduction to Regression Models and Analysis of Variance (STATS 203v), Souvik Ray *2019-2020 Summer*
- **Sharif University of Technology** *Teaching Assistant*
 - Stochastic Analysis, Calculus I, Calculus II, Probability and Its Applications, Algebra I.

PUBLICATIONS

- A Simple Measure of Conditional Dependence(with Sourav Chatterjee) *Annals of Statistics*
- Matrix Denoising with Unknown Noise Variance (arXiv:1801.10015)
- On leave-one-out cross-validated choice of k for k-nearest neighbor regression (arXiv:1909.05495) *Submitted to Electronic Journal of Statistics*
- A Fast A Fast Non-parametric Approach for Local Causal Structure Learning (arXiv:2111.14969) (first author, with Armeen Taeb and Peter Bühlmann)

- Linear regression with unmatched data: a deconvolution perspective(arXiv:2207.06320) (with Fadoua Balabdaoui)

PRESENTATIONS

Talk

- ETH/UZH Research Seminar *October 2022*
- Joint Statistical Meetings (JSM) 2022 *August 2022*
- Online Causal Inference Seminar *June 2022*
- Institut de Mathématiques de Toulouse *April 2022*
- University of British Columbia, Department of Statistics *January 2022*
- UCLA, Department of Statistics *January 2022*
- CMStatistics 2021 *December 2021*
- University of Edinburgh, Department of Mathematics *December 2021*
- London School of Economics, Department of Statistics *November 2021*
- Joint Statistical Meetings (JSM) 2021 *August 2021*
- Technical University of Munich, Seminar on Statistics and Data Science *April 2021*
- Bilkent University, Mathematics Department Seminar *February 2021*
- Sharif University of Technology, Winter Seminar Series (WSS) *January 2021*
- Young Data Science Researcher Seminar ETH Zürich *October 2020*
- Rutgers University, Department of Statistics *January 2020*
- Stanford CS-Theory lunch Seminar *October 2019*
- Industrial Affiliates Annual Conference, Department of Statistics, Stanford University *February 2019*
- Stanford-Berkeley Student Joint Colloquium *October 2019*

Poster

- The Third Workshop on Higher-Order Asymptotics and Post-Selection Inference *September 2018*

HONORS AND AWARDS

- ETH-FDS Postdoctoral Fellowship, ETH Zürich
- Stanford Graduate Fellowship, Statistics, Stanford University, Sep 2015.
- EDGE-STEM Fellowship, Statistics, Stanford University, Sep 2015.
- Ranked 5th in National PhD entrance exam, Sharif University of Technology, 2014.
- Admission to graduate program without entrance exam as an exceptional talented student, Sharif University of Technology, 2012.
- Ranked 3rd, in terms of cumulative GPA in pure mathematics, 2012, Sharif University of Technology.

PROFESSIONAL AND DEPARTMENT SERVICE

Reviewer

- Annals of Statistics
- Journal of the American Statistical Association
- Statistics & Probability Letters
- JMLR
- UAI
- SIAM Journal of Mathematics of Data Science
- USA National Science Foundation (NSF)

Mentorship

- EDGE Fellowship mentor, Stanford University. *2017-2020*
- Stanford Women in Mathematics Mentoring, Stanford University. *2017-2020*

Supervising Projects

- Master Thesis Mentorship (Nonparametric Variable Selection under Latent Confounding, Zipei Geng), ETH Zürich *Spring 2021*
- Master Thesis Mentorship (Investigations on Graph-Induced Approaches for Regression, Tomás Kaliks Allegrini), ETH Zürich *Spring 2022*
- Semester Thesis Mentorship (Random Forest and Application On Tests For The Linearity Assumption, Tomás Kaliks Allegrini), ETH Zürich *Spring 2022*

Coordinator

- Young Data Science Researcher Seminar Zürich, ETH Zürich *2020-present*
Together with Yuansi Chen, Geoffrey Chinot, Matthias Löffler, and Armeen Taeb
- Statistics Department Social Coordinator, Stanford University. *2016-2017*

COMPUTER SKILLS

Programming R, Python, C++, Java, Matlab
Word Processing L^AT_EX

OTHER

Languages Persian (Native), English (Fluent), French (Beginner), Arabic (Beginner), German (Beginner).
Extracurricular Playing Dutar and Setar (Iranian musical instruments), Road cycling

REFERENCES

- Sourav Chatterjee
Department of Statistics, Stanford University
souravc@stanford.edu
- Peter Bühlmann
Department of Mathematics, ETH Zürich
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- Norman Matloff
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