EDUCATION	University of Wisconsin-Madison, Madison, Wisconsin, USA	2013–2017	
	Department of Statistics		
	• Doctor of Philosophy, Major : Statistics, Minor : Computer Science, Final GPA: 3.8		
	University of Florida, Gainesville, Florida, USA	2011–2013	
	Department of Statistics		
	• Master of Statistics, Final GPA: 3.9		
	Sharif University of Technology, Tehran, Iran	2007–2011	
	Department of Industrial Engineering		
	• Bachelor of Science, Final GPA: 17.6/20.0		
PROFESSIONAL	Data Scientist at Microsoft, Azure Cloud and AI Group, 2017–current		
Experiences	Data Scientist Intern at Microsoft , worked on a productivity power metric for engineering syst 2016	ems, summer	
	Data Scientist Intern at @ Walmartlabs , worked on the cannibalization problem for Sam's Club data, summer 2015		
	Statistical Analyst/Intern at Nail Iran Co. (a Leading International Manufacturer of MERIC Lamps), worked on the Production Control Section as a statistical analyzer, summer 2010		
	Executive Manager of "KHABARNAMEH", a quarterly published by Department of Industrial Sharif University of Technology, 2008-2009	Engineering,	
ACADEMIC TALKS	Sharif University of Technology, Department of Industrial Engineering		
	Experimentation in the digital space	2019	
	Math Sciences at The University of Memphis (ICODOE 2019)		
	Novelty and learning effects in online experiments	2019	
	UCLA Department of Statistics (DAE 2017 Conference)		
	Sliced designs for multi-platform online experiments	2017	
	UT-Dallas Naveen Jindal School of Management (Bass FORMS Conference)		
	Sliced designs for multi-platform online experiments	2017	
	Stanford Graduate School of Business (Digital Marketing Conference)		
	Sliced designs for multi-platform online experiments	2016	
	Wisconsin School of Business		
	Cannibalization project with Sam's Club data	2016	
	Introduction to R and its role in Marketing research	2016	
	Machine learning applications in Marketing	2015	

PUBLICATIONS

Sadeghi, S., Chien, P., and Arora, N. (2019). **Sliced Designs for Multi-platform Online Experiments**, *Technometrics*, (just-accepted), pp. 1-34

Sadeghi, S. and Carey, J. (2017). **Phase-based Cyclic Time Series Forecasting**, *Microsoft Journal of Applied Research (MSJAR)*

Sadeghi, S. and Mahlooji, H. (2010). **A New Approach in Fitting Linear Regression Models with the Aim of Improving Accuracy and Power**, *Journal of Industrial and Systems Engineering (JISE)*, Volume 4, Number 2, pp. 95-113

WORKING PAPERS

Hung, T., Sadeghi, S., Chien, P., and Arora, N. Sliced Minimum Aberration Designs for Four-platform Experiments

Mahmoudzadeh, A., Liu, S., and Gupta, S., Sadeghi, S., and Li, P. In Theory and in Practice: Trade-Offs Between Bounded and Open Data Inclusion Approaches for Large Scale Digital Controlled Experiments

HONORS AND ACHIEVEMENTS

Research and Graduate Program Fellowship (Grinter Award), and Outstanding Academic Achievement Certificate, University of Florida, 2011–2013

Ranked **1st** among **80** students in Department of Industrial Engineering, and awarded direct entrance to the graduate program with full scholarship by Dean of Graduate Studies at Sharif University of Technology, 2010

Ranked **311th** among more than **300,000** students in the nationwide University Admission Examination (**99** Percentile), 2007

SKILLS

Statistical Packages: R **Programming**: Python

TEACHING EXPERIENCE

University of Wisconsin-Madison

4.7/5.0 with 90+ reviews on ratemyprofessors.com: www.ratemyprofessors.com/soheilsadeghi

• Teaching Assistant for Stat610, Introduction to Statistical Inference (size:50), Eval: 4.8/5	2017
• Teaching Assistant for Stat371, Introduction to Applied Statistics (size:150), Eval: 4.71/5	2013–2015
• Teaching Assistant for Stat311, Introduction to Math. Statistics (size:120), Eval: 4.19/5	2014
• Teaching Assistant for Stat301, Introduction to Statistical Methods (size:25), Eval: 4.1/5	2013-2014

University of Florida

• Instructor for STA3032, Engineering Statistics (size:70), Eval: 4.0/5	2013
• Instructor for STA3024, Introduction to Statistics II (size:250), Eval: 3.3/5	2013
• Teaching Assistant for STA2023, Introduction to Statistics I (size:50), Eval: 3.2/5	2011–2012

DISSERTATION

Sliced Designs for Multi-platform Online Experiments

Dissertation Committee:

Peter Chien, Neeraj Arora, Kam-Wah Tsui, Anru Zhang, Paul Hoban

Multivariate testing is a popular method to improve websites, mobile apps, and email campaigns. A unique aspect of testing in the online space is that it needs to be conducted across multiple platforms such as a desktop and a smartphone. The existing experimental design literature does not offer precise guidance for such a multiplatform context. In this paper, we introduce a multi-platform design framework that allows us to measure the effect of the design factors for each platform and the interaction effect of the design factors with platforms. Substantively, the resulting designs are of great importance for testing digital campaigns across platforms. We illustrate this in an empirical email application to maximize engagement for a digital magazine. We introduce a novel "sliced effect hierarchy principle" and develop design criteria to generate factorial designs for multi-platform experiments. To help construct such designs, we prove two theorems that connect the proposed designs to the well-known minimum aberration designs. We find that experimental versions made for one platform should be similar to other platforms. From the standpoint of real world application, such homogeneous sub-designs are cheaper to implement. To assist practitioners, we provide two algorithms to construct the designs that we propose. We also tabulate sliced factorial designs with 16, 32, and 64 runs for four-platform experiments.

SELECTED PROJECTS User Experience

2019

Measuring the holistic health of user experience on Windows devices using hardware, application, and diagnostic data

Experimentation 2018

Detecting, estimating, and correcting the novelty and learning effects in online experiments which reduces the experimental bias and contributes to trustworthiness of experimentation

Time Series 2017

Worked on a productivity power metric for the engineering systems with cyclicality patterns to improve a higher quality Windows service to customers

Testing and Optimization

2016

Efficient statistical designs for A/B testing and multivariate testing while dealing with large number of potential factors across different platforms

Data Division 2015

Optimal division of large and complex datasets into homogeneous batches and allocation to different servers in order to do parallel computing

Cannibalization and Halo Effect

2015

Scalable assessment of cross category promotion effects using Machine Learning applied to a large and complex dataset from Sam's Club

Search Engine Optimization

across different queries using machine learning algorithms

2014

Keyword optimization on a complex dataset from Google AdWords and designing experiments to fill empty spaces in order to improve conversion profitability

Predictive Modeling 2014

Predictive response modeling effort in between two waves of mailings to QuickBooks customers with the aim of improving wave-two response rates and company profits

Ranking Algorithms 2013

Worked on a dataset from Expedia.com with the aim of learning from consumer behaviors in order to rank hotels

COURSEWORK Graduate Coursework

• Theoretical Statistics

Graphical Models Garvesh Raskutti UW-Ma	dison
Non-parametric Statistics Chunming Zhang UW-Ma	dison
Mathematical Statistics Yazhen Wang and Jun Shao UW-Ma	dison
Probability Theory Andrew Rosalsky UFlorid	a
Statistical Inference Malay Ghosh UFlorid	a
Markov Chain Monte Carlo Hani Doss UFlorid	a
Theory of Linear Models Hani Doss UFlorid	a
Theoretical Statistics Kshitij Khare UFlorid	a
Modern Analysis Paul Robinson UFlorid	a

• Applied Statistics

Course	Instructor	School
Statistical Model Building and Learning	Grace Wahba	UW-Madison
High Dimensional Statistical Inference	Ming Yuan	UW-Madison
Multivariate Analysis	Ming Yuan	UW-Madison
Network Skills for Statistics	Brian Yandell	UW-Madison
Generalized Linear Models	Brett Presnell	UFlorida
Regression Analysis	Larry Winner	UFlorida
Design of Experiments	Larry Winner	UFlorida

• Computer Science

Course	Instructor	School
Advanced Machine Learning Database Management Systems Algorithms	Jerry Zhu AnHai Doan Deborah Joseph	UW-Madison UW-Madison UW-Madison

Undergraduate Coursework

• Industrial Engineering

Course	Instructor	School
Simulation and Statistics	Hashem Mahlooji	Sharif UT
Queueing Theory and Probability Models	Mohammad Modarres Yazdi	Sharif UT
Regression Analysis	Seyed Taghi Akhavan Niaki	Sharif UT
Operations Research	Kourosh Eshghi	Sharif UT
Statistical Quality Control	Fereidoon Kianfar	Sharif UT
Probability and Applications	Rasoul Haji	Sharif UT
Engineering Statistics	Hashem Mahlooji	Sharif UT
Linear Algebra	Kourosh Eshghi	Sharif UT
Economics	Mohammad Hadi Chamran	Sharif UT
Principles of Marketing	Hassan Shavandi	Sharif UT
Basic Management	Hassan Shavandi	Sharif UT
Computer Information Systems	Hassan Shavandi	Sharif UT