

EXPERIENCE

Data Scientist at Microsoft

Health Score

2019–current

Developing the core methodology for measuring and evaluating the holistic health of Windows devices using user initiated signals, diagnosability data, hardware characteristics, and application attributes.

Experimentation

2017–2018

Developed and helped operationalize a long-term estimator for the causal effect of online experiments. This model detects, estimates, and corrects for the novelty and learning effects which reduces the experimental bias and contributes to trustworthiness of experimentation.

Data Scientist Intern at Microsoft

Operations Research

2016

Developed and helped operationalize the infrastructure for measuring and improving an engineering systems productivity power metric. This metric measures the agility of engineering systems in responding to customer feedback. The infrastructure decomposes the cyclical pattern from the metric as a time series to provide forecast and to identify the key engineering factors that improve the system.

Data Scientist Intern at @Walmartlabs

Cannibalization and Halo Effects

2015

Developed a machine learning algorithm for scalable assessment of cross category promotion effects using Sam's Club data

Research Assistant at University of Wisconsin-Madison

Design of Experiments

2013–2017

Efficient statistical designs for online experiments 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.

Search Engine Optimization

2014

Keyword optimization on Google AdWords data 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

Ranking hotels across different queries based on customer behavior on a dataset from Expedia.com using machine learning algorithms.

SKILLS

Statistical Packages: R, SAS

Programming: Python

Others: Spark, Hive, SQL, Visual Studio, Office

EDUCATION	University of Wisconsin-Madison	2013–2017
	Doctor of Philosophy, Major: Statistics, Minor: Computer Science	
	University of Florida	2011–2013
	Master of Science, Major: Statistics	
	Sharif University of Technology	2007–2011
	Bachelor of Science, Major: Industrial Engineering	
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	
SELECTED PUBLICATIONS	Sadeghi, S., Chien, P., and Arora, N. (2019). Sliced Designs for Multi-platform Online Experiments , <i>Technometrics</i> , (just-accepted), pp. 1-34	
	Sadeghi, S. and Carey, J. (2017). Phase-based Cyclic Time Series Forecasting , <i>Microsoft Journal of Applied Research (MSJAR)</i> , Volume 8, pp. 91-100	
INVITED TALKS	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
TEACHING EXPERIENCE	Wisconsin School of Business	
	Scalable assessment of cross category promotion effects using Machine Learning	2016
	Introduction to R and its role in Marketing research	2016
	4.7/5.0 with 90+ reviews on ratemyprofessors.com	
	Teaching Assistant	2011–2017
	Introduction to Statistical Inference, Mathematical Statistics, Applied Statistics, and Statistical Methods	
	Instructor	2013
	Engineering Statistics, and Introduction to Statistics	