

## Contact

[www.linkedin.com/in/mehdijalalpour](http://www.linkedin.com/in/mehdijalalpour) (LinkedIn)  
[sites.google.com/site/mehdijalalpour/](http://sites.google.com/site/mehdijalalpour/) (Other)  
[works.bepress.com/mehdi\\_jalalpour/](http://works.bepress.com/mehdi_jalalpour/) (Other)

## Top Skills

Matlab  
Structural Analysis  
Finite Element Analysis

## Certifications

Intro to Data Science with Python  
Convolutional Neural Networks  
Data Science Foundations: Python Scientific Stack  
Building a Recommendation System with Python Machine Learning & AI  
Art and Science of Machine Learning

## Publications

Forecasting demand for health services: Development of a publicly available toolbox  
Comparing methods of targeting obesity interventions in populations: An agent-based simulation  
Google Flu Trends Spatial Variability Validated Against Emergency Department Influenza-Related Visits

# Mehdi Jalalpour

Data Scientist at KPMG  
Orange County, California Area

## Summary

Mehdi is a published data scientist with six years of experience in turning data into insights using Python, and R. Mehdi has built machine learning platforms and models for healthcare institutions, local law enforcement and governments to improve operations and resource utilization.

His recent interest include using sequence RNNs for speech recognition. Mehdi is also experienced in the application of optimization and stochastic simulation to a variety of engineering and health care related projects.

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## Experience

KPMG US  
Senior Associate, Data Scientist  
December 2017 - Present (2 years 4 months)  
Orange County, California Area

Cleveland State University  
Assistant Professor  
August 2013 - December 2017 (4 years 5 months)  
Cleveland/Akron, Ohio Area

- Principal investigator on several data analytics and optimization projects
- Taught courses on structural mechanics, reliability and stochastic processes
- Supervised graduate students research

Johns Hopkins University  
5 years

Research assistant  
September 2008 - August 2013 (5 years)

- Structural design optimization under manufacturing uncertainties.
- Multidisciplinary research with School of Medicine on health care delivery optimization.

- Multidisciplinary research with School of Public Health on childhood obesity.

#### Teaching assistant

September 2009 - May 2011 (1 year 9 months)

#### Courses:

-Statics and mechanics of Materials (60+ students)

<http://www.ce.jhu.edu/lori/statics/>

- Probability and statistics (100+ students)

- Systems modeling and simulations

#### Kala Electric

#### Structural Engineer II

May 2006 - July 2008 (2 years 3 months)

- On-site representative and problem solver

Performed field inspection of soil excavation and soil stabilization projects.

Verified that contractor work was in compliance with construction documents of industrial warehouses, office buildings, underground tunnels, and pipe racks.

Proposed and inspected the construction of diversionary dams to protect high-voltage electricity transmission lines from floods.

- Structural Engineer

Designed steel and concrete structural systems for various production and administrative buildings.

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## Education

#### The Johns Hopkins University

Doctor of Philosophy (Ph.D.), Civil Engineering Systems · (2011 - 2013)

#### The Johns Hopkins University

Master of Science (M.Sc.), Civil Engineering · (2008 - 2011)

#### University of Tehran

Master of Science (M.Sc.), Structural Engineering · (2003 - 2005)