

# Cyrus Mohammadian

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## EDUCATION

### USC, LOS ANGELES

PHD, POLITICAL SCIENCE

2009-2016 | Cum. GPA: 3.83

MA, INTERNATIONAL RELATIONS

2009-2012 | Cum. GPA: 3.81

GRADUATE CERTIFICATE

Research Methodology

### IU, BLOOMINGTON

BA, POLITICAL SCIENCE AND

CENTRAL EURASIAN STUDIES

2004-2008 | Cum. GPA: 3.7

## COMPUTING SKILLS

Advanced

R • QGIS •  $\text{\LaTeX}$  • Markdown • Shiny

Familiar

Stata • Python • SQL • SPSS •

Graphviz/DOT • ArcGIS

## QUANTITATIVE SKILLS

Experimental Design • OLS • ANOVA •  
GLM • Non-parametric Regression •  
Random Forest • Time-Series • Predictive  
Modeling • Selection Models • Spatial  
Statistics • Web Scraping • Network  
Analysis • GIS • Data Visualization

## COURSEWORK

### USC

Intro to Research Design, Intro to  
Regression, Quantitative Methods and  
Statistics II, Experiments in Political  
Research, Statistical Computing and Data  
Visualization, Concepts for Spatial  
Thinking, Spatial Analysis and Modeling

### ICPSR

Regression II, Regression III, Maximum  
Likelihood Estimation, Advanced MLE,  
Spatial Econometrics, Mathematics for  
Social Scientists II & III

## LINKS

Github:// cmohamma

LinkedIn:// cmohamma

Stackoverflow:// cyrus-mohammadian

Personal Blog: cmohamma.github.io

Website: www.cyrusmohammadian.com

## SUMMARY

I am a computational social scientist working in both the academic and private sectors. I graduated with a doctorate from the University of Southern California where my training focused on research design, predictive modeling, spatial econometrics, and data visualization. I am currently working as a data consultant at Blind Fox Analytics and I recently completed a one year lectureship teaching research methodology courses at Chapman University's Sociology Department.

## EXPERIENCE

### BLIND FOX ANALYTICS | DATA CONSULTANT

2017 – | San Diego, CA & Washington D.C.

- Serve as a data consultant on a range of projects, including work on randomized control trials, designing surveys, assisting in data visualization efforts, implementing machine learning algorithms among others.

### CHAPMAN UNIVERSITY | LECTURER, DEPARTMENT OF SOCIOLOGY

2017 – 2018 | Orange, CA

- Taught multiple research methods courses on topics including research design, quantitative methods, qualitative methods, R programming, cross tabulations, difference of means tests and experimental design.

### PHEEBO, INC. | FREELANCE DATA CONSULTANT

2016 – 2017 | Los Angeles, CA

- Served as a data consultant where I leveraged data on user habits to assist in marketing strategy. Responsibilities consisted of implementing data warehouse platform, data optimization, analytics (A/B testing and visualization), and reporting.

### USC | RESEARCH ASSISTANT

2011-2013, 2015, 2016 | Los Angeles, CA

- Served as data manager working on a dataset compiling international human rights treaties and served as lead researcher on a team coding the Near Crisis Dataset, a complementary dataset to the International Crisis Behavior Dataset housed at Duke University.

## CORE COMPETENCIES

### Research Design

- Ample experience with research design and causal inference, including surveys, experiments and quasi-experiments (such as research discontinuity design), instrumental variable approaches, and Heckman selection models.

### Statistical Modeling

- Extensive background handling observational data and employing statistical models for inference and forecasting.
- Specialization in spatial statistics, GIS, and time-series analysis and familiarity with cross-validation and Bayesian methods.

### Data Management and Visualization

- Experience using ggplot2, lattice, data.table, dplyr, plyr, Pandas, and matplotlib.
- Experience with hypervariate data visualization, mapping, and network graphing, in addition to reporting and word processing experience with  $\text{\LaTeX}$  and Markdown.