

# Alicia Yiqin Shen

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## EDUCATION

### UNIVERSITY OF WASHINGTON

PH.D. CANDIDATE, PSYCHOLOGY  
Expected Mar 2018 | Seattle, WA  
GPA: 3.88

### QUANTITATIVE MINOR: STATISTICAL MODELING AND VISUALIZATION

Grad. Dec. 2015 | Seattle, WA  
GPA: 3.86

### FUDAN UNIVERSITY

B.S. PSYCHOLOGY, WITH DISTINCTION  
Grad. May 2011 | Shanghai, China

## COURSEWORK

Statistical Machine Learning  
Social Network Analysis  
Maximum Likelihood Modeling  
Multilevel Modeling  
Structural Equation Modeling  
Data Visualization  
Matlab Programming  
Unconscious and Implicit Cognition  
Social/Personality Psychology  
Cognitive Psychology

## SKILLS

### Fluent:

- Data wrangling (R base, dplyr)
- Geospatial analysis (SP, Rgdal, Raster)
- Data visualization (ggplot, ggmap, leaflet, shiny)
- Behavioral Experiment (Inquisit, Matlab, Psychtoolbox)

### Familiar:

- Python • Git • Bash • QGIS •  $\text{\LaTeX}$
- SQL

## REFERENCES

**Dr. Yuichi Shoda** (yshoda@uw.edu)

Professor of Psychology, University of Washington

**Dr. Ione Fine** (ionefine@uw.edu)

Professor of Psychology, University of Washington

**Dr. Chris Adolph** (cadolph@uw.edu)

Associate Professor of Political Science, Adjunct Professor of Statistics, University of Washington

## DATA SCIENCE PROJECTS

### ESCIENCE INSTITUTE | WSDOT | DATA SCIENCE FOR SOCIAL GOOD FELLOW

June 2016 – Aug 2016 | Seattle, WA

- Curated, merged and cleaned over 21 million entries (>10GB) of One Regional Card for All (ORCA) smart card data.
- Used hierarchical clustering and rasterization to assess geospatial representativeness of the ORCA card data.
- Used support vector machines to predict bus overloading, correctly identified 70% of the overloads.
- Designed and developed Shiny-leaflet dashboard to visualize various forms of ORCA card usage, adopted by WSDOT to visualize consumer behavior.
- Project were reported in Geekwire, Seattle Times, and New York Times.

## RESEARCH

### VISION AND COGNITION GROUP | GRADUATE RESEARCHER

Sep. 2015 – Present | Seattle, WA

- Gender Bias in Publication: Scrapped over a million lines of authorship information from PUBMED database. Used natural language processing ('genderize.io') to gender the authors. Used ggplot to visualize and compare gender representation of first and last authors before and after the publication of editorials calling for an increased female representation.
- Neural Basis of Social Categorization: Applied voxel based modeling on fMRI time series data to investigate how social dimensions (e.g. race) are represented in the brain.

### SHODA LAB | DISSERTATION RESEARCH

Jan. 2014 – Present | Seattle, WA

- Gender Double Standard of Aging: Used multilevel modeling to examine the effect of aging on evaluations of men and women.
- Stimulus Sampling: Meta-analyzed literature on race bias in the courtroom setting, tested the relationship between the number of stimulus used and the direction and magnitude of the race effect across experiments.

## PUBLICATIONS

Gender Double Standard of Aging on Voting      Psychological Science (under review)  
Shen.Y.Q, Shoda, Y.  
How to set focal categories for Brief IAT?      Frontier in Psychology (2016)  
Shi Y.Y., Yang J., Shen, Y.Q., Cai H.J.  
Power and Message Framing.      Journal of Advertising (under review)  
Jain.S.P, Shen.Y.Q, Jain.S.S, Li.X.B

## AWARDS

2016      Data Science for Social Good Fellowship  
2016      University of Washington Alcor Fellowship  
2014      University of Washington Top Scholar Award  
2011      Fudan University Undergraduate Top Thesis Award