

Jonathan P. Olmsted

Experience

The NPD Group, Inc. | Manager, Solutions
Jan 2016 – present
Specialist, Solutions
Jan 2015 – Dec 2016

- Design, execute, and present diverse client projects: including matched-market testing, pricing analysis, forecasting, and survey projections
- Develop and document internal best practices for data-intensive and computationally-intensive market research methodologies

Princeton University | Senior Statistical Research & Computing Specialist
January 2013 – December 2014

- Manage team of consultants providing services to faculty, staff, and student researchers in quantitative social science
- Develop and automate internal logging, tracking, and reporting system for consulting services
- Provide sustained, in-depth statistical and computational support for special projects — ranging from parallel algorithm development to web-scraping
- Train researchers on implementing computationally intensive procedures on workstation and high-performance computing hardware

Princeton University | Summer Lecturer
Summers 2013, 2014

- Co-develop and teach new undergraduate course **Visualizing Data** to incoming freshmen using R
- Covers: causality, clustering, regression, cross-validation, network data, and geographical data
- Highest student evaluations among recent introductory statistics courses at Princeton University

Technical Skills

Languages	R, C++, Python, Bash
OS Environments	Unix-like, Mac OS, Windows OS
Data Management	SQL/relational, NoSQL
Document Preparation	L ^A T _E X, Pandoc, knitr
Software Project Management	git, svn, make
Other Technical Software	JAGS, stan, Matlab, Stata
HPC APIs	OpenMP, BLAS, MPI
Misc.	PBS, SLURM, Linux server and cluster admin.

Education

University of Rochester | Ph.D., Political Science
Expected 2017

MA, Political Science
2010

University of Delaware | BA, Political Science
2007

Publications

Fast Estimation of Ideal Points with Massive Data
with Kosuke Imai and James Lo. *American Political Science Review*, Forthcoming.

A Process for Developing an Optimal Model for Reducing Bias in Nonprobability Samples: The Quest for Accuracy Continues in Online Research

with George Terhanian, John Bremer, and Jiqiang Guo. (2016). *Journal of Advertising Research*, Vol. 56, No. 1 (February), pp. 14-24.

Technical Workshops

Visualizing Data | Dartmouth College
Summer 2014

Advanced Statistical Programming | Princeton University
Springs 2013, 2014

Intro to HPC | Princeton University
Winter 2013

Software Projects

emIRT | R package

- Provides Variational Expectation-Maximization algorithms for Item Response Theory (IRT) models
- Fast and scalable computation, producing effectively equivalent results as other estimation techniques

RcppTN | R package

- Provides efficient random number generation, moment calculation and entropy calculation for truncated Normal distributions
- Identical R and C++ APIs for seamless and reproducible use by other projects at multiple levels