

Ben Goodrich  
185 Claremont Ave. #6C  
New York, NY 10027

TEL: 507-BGOODRI  
bg2382@columbia.edu  
<http://www.columbia.edu/~bg2382>

## Ben Goodrich's Curriculum Vitae

### Research Interests

My substantive research interests are in political psychology. My research discovers ways to implement abstract psychometric ideas from the 1930 – 1960 era and tests theories of welfare-state preferences using these novel empirical methods.

### Employment Experience

- 2013–2014*      Lecturer in Discipline in Political Science, Columbia University
- 2010–2013*      Postdoctoral Researcher, Applied Statistics Center, Columbia University  
Working with Andrew Gelman primarily on the mi R package for missing data
- 2001–2003*      Research Assistant, Peterson Institute for International Economics, Washington D.C.

### Education

- 2010*            **Doctor of Philosophy**, Government and Social Policy, Harvard University  
*It's Not All about the Benjamins: Political Economy and Social-Psychology Theories of Welfare State Preferences.* Committee: Jim Alt (chair), Torben Iversen, Kevin Quinn
- 2001*            **Bachelor and Master of Arts**, Political Science, Emory University  
*Taking the Road Less Traveled: New Transportation Policies in Europe and North America.*

### Publications

- [1]            A Comment on “Rewarding Impatience”. *International Organization* 60:499–513.
- [2]            Integrating Risk Context into Risk Assessments: The Risk Context Scale. *Assessment* (forthcoming) (with Daryl G. Kroner and Andrew Gray)
- [3]            Migration and Risk: Net Migration in Marginal Ecosystems and Hazardous Areas *Environmental Research Letters* (forthcoming) (with Alex de Sherbinin et al.)

### Papers Under Review

- [4]            Visual Representation of Distributions of Covariance Matrices (with Andrew Gelman, Tomoki Tokuda, and Francis Tuerlinckx)
- [5]            Assessing the Accuracy of Multiple Imputation Techniques for Categorical Variables with Missing Data (with Jon Kropko, Andrew Gelman, and Jennifer Hill)

## Working Papers

- [6] The Vectors of Mind Is a Terrible Thing to Waste: An Indirect Rank-Minimization Algorithm to Estimate the Number of Latents
- [7] Inequality Aversion and Preferences for Redistribution: New Tests of Political Economy Theories
- [8] Choosing the Number of Latents with the Indirect Rank-Minimization Algorithm
- [9] Generating Correlation Matrices via Canonical Partial Correlations
- [10] Designing Quantitative Historical Inquiry (with Ira Katznelson and Greg Wawro)

## Publically Available R Packages

- FA*z*R: (Factor Analysis in R): For my dissertation, I wrote essentially all of the now 20,000 lines of R code to implement new and old estimators for structural equation models with latent variables
- boolean: I rewrote the bulk of Bear Braumoeller's package to estimate boolean models
- MCMCpack: Coded new models for an article by Michael Herron
- rgenoud: Added several new features since 2007
- mi: Currently working on a major redesign of the package
- rstan: Various contributions

## Computer Skills

Expert in R, proficient in C / C++ and Stata, learning Python, capable of assisting with a Linux server

## Conference Presentations and Invited Talks

- Political Methodology Conference
  - Poster Titles: Assessing the Accuracy of Multiple Imputation Techniques for Categorical Variables with Missing Data, Testing the Missing-At-Random Assumption after Multiply Imputing Missing Data, CAGEMATCH's Another GENetic Matching Algorithm to Test Causal Hypotheses, Bringing Rank-Minimization Back In, Semi-Exploratory Factor Analysis, A Maximum Likelihoodistic Approach to Multidimensional Bayesian Models with Latent Explanatory Variables, Bayesian Methods for (B)TSCS and Panel Models, Problems with and Solutions for Two-dimensional Models of Continuous Dependent Variables
- Psychometric Society Conference
  - Paper Titles: Step Zero: Selecting a Structural Equation Model Via a Dispersion Function, Choosing the Number of Latents with the Indirect Rank-Minimization Algorithm, Semi-Exploratory Factor Analysis and Associated Software
- American Political Science Association Conference
  - Paper Titles: Designing Quantitative Historical Inquiry, Semi-Exploratory Factor Analysis and Software to Estimate It, Individual Attitudes toward the Income Distribution in Comparative Perspective, Attitudes toward Economic Inequality in 18 Countries

- Midwest Political Science Association Conference
  - Paper Titles: *The Vectors of Mind Is a Terrible Thing to Waste: An Algorithm for Inferring the Number of Common Factors in Factor Analytic and Related Models, Semi-Exploratory Factor Analysis and Its Potential for the Social Sciences, Categorical Variables in Public Opinion* (with Philip Rehm)
- Comparative Politics of Inequality and Redistribution Conference
  - Paper Titles: A non-Meltzer-Richard Model of Individual Preferences for Redistribution, A Method for Analyzing Survey Data with Political Economy Applications
- C.A.M.R.I. at Université du Québec à Montréal: An Indirect Rank-Minimization Algorithm
- useR 2008 Conference: FAiR: A Package for Factor Analysis in R
- University of Rhode Island Methods Group Workshop: Semi-Exploratory Factor Analysis
- Fordham University Psychology Department: Choosing the Number of Factors in a Factor Analysis Model
- Statistical Society of Canada: Evaluating the Missing-At-Random Assumption after Multiply Imputing Missing Data

#### Fellowships, Grants, and Awards

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| <i>2010</i>    | <b>Amazon Web Services Research Grant</b><br>Awarded to an unknown number of people quarterly for computational research  |
| <i>2009</i>    | <b>Society for Political Methodology Poster Award</b> , Yale University<br>Co-awarded to the graduate student(s) (among about 75) with the best poster at the Political Methodology Conference for my poster “Bringing Rank-Minimization Back In”. The previous winners of this award are listed at <a href="http://polmeth.wustl.edu/society.php">http://polmeth.wustl.edu/society.php</a> . |
| <i>2008–09</i> | <b>Dissertation Completion Grant</b> , Harvard University<br>Awarded to many graduate students for the purpose of completing their dissertations  |
| <i>2005–06</i> | <b>Graduate Political Economy Fellow</b> , Harvard University<br>Awarded to about two Government Ph.D. students annually to take courses in Economics   |
| <i>2004–08</i> | <b>Doctoral Fellow</b> , Multidisciplinary Program in Inequality & Social Policy, Harvard University<br>Support for about five graduate students at Harvard per year through a National Science Foundation IGERT Grant to further multidisciplinary study of inequality   |
| <i>2004–10</i> | <b>Graduate Fellow</b> , Institute for Quantitative Social Science, Harvard University<br>Awarded to many graduate students (mostly at Harvard) to further quantitative research  |

#### Journal Reviewer

Political Analysis, Journal of Econometrics, Comparative Political Studies, Journal of Statistical Software, Social Science Research

## Teaching Experience

**(teaching assistant) Introduction to Quantitative Methods I, Harvard University, 2006**

**Missing Data, Columbia University, Spring 2013**

**Introduction to Missing Data, Columbia University, Fall 2013**

**Multivariate Political Analysis, Columbia University, Fall 2013**

**Quantitative Techniques and Systems Analysis in Policymaking, Columbia University, Fall 2013**

## References

### **Jim Alt**

1737 Cambridge St.  
Cambridge, MA 02138  
1-617-495-2184  
jalt@iq.harvard.edu

### **Andrew Gelman**

1255 Amsterdam Ave.  
New York, NY 10027  
1-212-851-2142  
gelman@stat.columbia.edu

### **Torben Iversen**

1737 Cambridge St.  
Cambridge, MA 02138  
1-617-384-5847  
iversen@fas.harvard.edu

### **Kevin Quinn**

490 Simon #7200  
Berkeley, CA 94720  
1-510-642-2485  
kquinn@law.berkeley.edu

### **Jas Sekhon**

2538 Channing Way  
Berkeley, CA 94720  
1-510-642-9974  
sekhon@berkeley.edu