

# ▶ MATTHEW R. SISCO

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## Education

### Psychology Ph.D., Columbia University

- ▶ Expected graduation: 2020
- ▶ IGERT Data Science specialization

### Psychology B.A., Summa Cum Laude, Fairleigh Dickinson University

- ▶ 4.0 GPA

## Peer-reviewed Publications

**Sisco, M.R.**, & Weber, E.U. (2019). Examining charitable giving in real-world online donations. *Nature Communications*, 10.

**Sisco, M.R.**, Bosetti, V. & Weber, E.U. (2017). When do weather events generate attention to climate change? *Climatic Change*, 143 (1-2), 227-241. doi:10.1007/s10584-017-1984-2

Gong, M., Lempert, R., Parker, A., Mayer, L. A., Fischbach, J., **Sisco, M.R.**, Mao, Z., Krantz, D.H. & Kunreuther, H. (2017). Testing the scenario hypothesis: An experimental comparison of scenarios and forecasts for decision support in a complex decision environment. *Environmental Modelling & Software*, 91, 135-155.

## Submitted Papers

Emmerling, J., Navarro, P., & **Sisco, M.R.** (2019). Subjective well-being - empirical determinants and simulations results for the shared socioeconomic pathways. Under review at *Global Environmental Change*.

O'Garra, T. & **Sisco, M.R.** (2019). The effect of anchors and peers on redistribution behaviour. Under review at *PLOS One*.

## Working Papers

**Sisco, M.R.**, & Weber, E.U. (2019). Evaluating computational methods to automatically detect emotions in text. In preparation.

Schneider, C.R., **Sisco, M.R.**, Shohamy, D., & Weber, E.U. (2019). Uncovering the mechanism of the primacy effect in choice behavior: How we value choice options depends on serial position. In preparation.

## Guest Lectures

Sisco, M. (2018). Categorical independent variables, multiple regression, and modeling interactions. Invited guest lecture for the course: Introduction to Statistical Modeling at Columbia University.

Sisco, M. (2018). Leveraging automatically generated data to study pro-environmental behavior. Invited guest lecture for the course: Environmental Quantitative Methods at New York University.

Sisco, M. (2017). An overview of topics and research in decision science. Invited guest lecture for the course: Introduction to Carbon Management at Columbia University.

## Conference Presentations

- Sisco, M.R.**, Pianta, S., Bosetti, V., & Weber, E.U. (2019). Collecting and analyzing online news data to understand drivers of environmental concern. Paper presented at the International Conference on Environmental Psychology (ICEP) 2019, September 6th, Plymouth, UK.
- Sisco, M.R.**, Bosetti, V., & Weber, E.U. (2017). Extreme Weather and Attention to Climate: A Twitter Analysis and Messaging Tool. Paper presented at the Behavior Energy and Climate Change (BECC) 2017 conference, October 16th, Sacramento, CA.
- Schneider, R.C, **Sisco, M.R.**, & Weber, E.U. (2017). Promoting pro-social and pro-environmental behavior through values-affirmation. Paper presented at the Behavior Energy and Climate Change (BECC) 2017 conference, October 16th, Sacramento, CA.
- Sisco, M.R.**, & Weber, E.U. (2017). Evaluating computational approaches for emotion detection in social media messages. Paper presented at 2017 Five Colleges Annual Conference, May 5<sup>th</sup>, 2017. New York.
- Sisco, M.R.**, Bosetti, V., & Weber, E.U. (2016). When do weather events cause attention to climate change? Paper presented at the European Association for Environmental Economics Annual Conference, June 25<sup>th</sup>, 2016, Zurich.
- O'Garra, T. & **Sisco, M.R.** (2016). Leading-by-Example and Altruism: Some Insights for Biodiversity Conservation Financing, Paper presented at the 18th BIOECON Conference, King College Cambridge, Sept. 15<sup>th</sup>, 2016, London.
- O'Garra, T. & **Sisco, M.R.** (2016). The Impact of Leading-by-example on altruism, Paper presented at the London Experimental Workshop, Queen Mary University, June 6<sup>th</sup>, 2016, London.

## Other Presentations

- "Examining psychological aspects of climate change mitigation"**  
Columbia Psychology Department Seminar (May 2019)
- "Leveraging automatically generated data and computational methods to study environmental decisions"**  
Columbia Psychology Department Seminar (December 2015)
- "New Data and Computational Social Science"**  
CRED Annual Conference (May 2014)
- "Digital Data: Extraction, Storage, and Security"**  
CRED RA Educational Series (Feb 2014)
- "Why do People Value Endangered Species?"**  
American Association for the Advancement of Science Annual Meeting Poster Session (Feb 2013)
- "Sustainability Leadership in Higher Education"**  
Presented at the FDU Honors Research Day (April 2011)

## Graduate Coursework

- ▶ Advanced topics in quantitative analysis (*Prof: Andrew Gelman*)
- ▶ Regression Modeling of Temporal Processes
- ▶ Social Cognitive Neuroscience
- ▶ Analysis of Change (*Prof: Niall Bolger*)
- ▶ Information Processing: From Data to Solutions (*Prof: Niall Bolger*)
- ▶ Multidisciplinary Approaches to Human Decision Making (*Prof: Elke Weber*)
- ▶ Statistical Modeling in Psychology (*Prof: Niall Bolger*)
- ▶ Natural Language Processing and Psychology
- ▶ Intellectual Property for Entrepreneurs

## Teaching Assistantships

- ▶ Introduction to Statistical Modeling (PSYC 6007)
- ▶ Introductory Statistics for Behavioral Scientists (PSYC 1610)

## Writings and Quoted in Popular Press

Wheeling, K. (2019, January 30). Why does trump keep mixing up weather and climate? *Pacific Standard*. Accessible online at <https://psmag.com/environment/why-does-trump-keep-mixing-up-weather-and-climate>

Deaton, J. (2017, April 14). More people than ever are worried about climate change, but will it last? The relationship between weather and public opinion is complicated. *Think Progress*. Accessible online at <https://thinkprogress.org/climate-change-and-weather-e5be90138c36>

**Sisco, M.R.** (2012, November 18). Op-ed: Time to get focused on climate change. *The Star-Ledger*. Published in print and accessible online at [http://blog.nj.com/njv\\_guest\\_blog/2012/11/time\\_to\\_get\\_focused\\_on\\_climate.html](http://blog.nj.com/njv_guest_blog/2012/11/time_to_get_focused_on_climate.html)

## Journal Refereeing

Invited and performed peer review for the journals *Climatic Change* and *Weather and Society*.

## Professional Experience

### Program Coordinator

Center for Research on Environmental Decisions (CRED), Columbia University (May 2012 – Aug 2015)

- ▶ Managed research data across center; Developed web application for centrally managing research data
- ▶ Contributed substantially to multiple CRED research projects
- ▶ Consulted on Columbia IRB, funding opportunities, and Columbia internal systems

### Research Assistant

Center for Research on Environmental Decisions, Columbia University (May 2011 – May 2012)

- ▶ Responsible for literature reviews, running experiments, data processing, and manuscript editing

### Youth Representative to the United Nations

Fairleigh Dickinson University (Sept 2010 – May 2012)

- ▶ Represented the university at high-level meetings and UN conferences

## Technology

- ▶ Statistical software: R, SPSS
- ▶ Programming languages (proficient): PHP, JavaScript, jQuery, VBA, CSS, HTML
- ▶ Database software: MySQL, Amazon S3, Amazon RDS
- ▶ High-performance computing: Amazon EC2, Linux cluster computing
- ▶ Dynamic data visualization: D3 (JS), CartoDB, Highcharts (JS), Google Charts (JS)

## Grant Writing

### 2015 NSF Graduate Research Fellowship Proposal

\$144k, National Science Foundation (September 2015 – November 2015); not awarded

- ▶ Assembled graduate fellowship proposal

### **2014 NSF Graduate Research Fellowship Proposal**

\$144k, National Science Foundation (July 2014 – November 2014); not awarded

- ▶ Assembled graduate fellowship proposal under guidance of prospective mentor Dr. Elke Weber

### **CRED3 Center Renewal Proposal**

\$4.5M, National Science Foundation (May 2014 – September 2014); partially awarded

- ▶ Contributed to development of subproject, "Estimating Public Opinion through Social Media Data"
- ▶ Wrote data management plan

### **Sports, Sustainability, and Happiness in Rio de Janeiro**

\$1.5M, Telefónica (June 2013 – October 2014); not awarded

- ▶ Developed 3-year research plan including behavioral experiments, qualitative fieldwork, and in-person surveys

### **Earth Institute Research Assistantship**

\$10k, Columbia University (July 2014 – November 2014); awarded

- ▶ Wrote five successful research assistantship proposals to receive \$10k total in funding

## **Awards**

- NSF IGERT Data to Solutions Fellowship
- U.S. Fulbright nominee
- Burden Award for Meritorious Achievement
- Outstanding Honors Student Award
- Making Strides Toward Sustainability Award
- Phi Theta Kappa Academic Scholarship
- Burgundy and Blue Academic Scholarship