

# Andrei Boutyline

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## Curriculum Vitae

### Employment

University of Michigan <i>Assistant Professor of Sociology</i>	Fall 2017	—	...
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### Education

University of California, Berkeley <i>Sociology</i>	PhD	2017
	MA	2011
New York University <i>Humanities and Social Thought</i>	MA	2009
University of California, Berkeley <i>Cognitive Science, Computer Science (minor)</i>	BA	2004

### Peer-Reviewed Research

Note: asterisks (\*) indicate graduate student coauthors

Boutyline, Andrei, Alina Arseniev-Koehler(\*), and Devin Cornell(\*). 2023. "School, Studying, and Smarts: The Gender of Education Across 80 Years of American Print Media, 1930-2009." *Social Forces*. doi.org/10.1093/sf/soac148

Boutyline, Andrei. 2022. "Holding a Position: Public Opinion as Cognition in a Disorganized Field." *Poetics*. doi.org/10.1016/j.poetic.2022.101710

Boutyline, Andrei, and Laura Sauter(\*). 2021. "Cultural Schemas: What They Are, How to Find Them, and What to Do Once You've Caught One". *American Sociological Review* 86, no. 4 (August): 728-758. doi.org/10.1177/00031224211024525

- Honorable mention for Outstanding Recent Contribution in Social Psychology Award, ASA Social Psychology section, 2023
- Honorable mention for Clifford Geertz Prize for Best Article, ASA Culture Section, 2022

Boutyline, Andrei, Devin Cornell(\*), and Alina Arseniev-Koehler(\*). 2021. "All Roads Lead to Polenta: Cultural Attractors at the Junction of Public and Personal Culture." *Sociological Forum*. doi.org/10.1111/socf.12760

- Commissioned article for special issue on culture & cognition.

Boutyline, Andrei and Stephen Vaisey. 2017. "Belief Network Analysis: A Relational Approach to Understanding the Structure of Attitudes." *American Journal of Sociology* 122, no. 5 (March): 1371-1447. doi.org/10.1086/691274

Boutyline, Andrei. 2017. "Improving the Measurement of Shared Cultural Schemas with Correlational Class Analysis: Theory and Method." *Sociological Science* 4: 353-393. May 29, 2017. doi:10.15195/v4.a15

— Graduate student paper award, ASA Mathematical Sociology Section, 2015

— Honorable mention for graduate student paper award, ASA Methodology Section, 2016

Boutyline, Andrei and Robb Willer. 2017. "The Social Structure of Political Echo Chambers: Variation in Ideological Homophily in Online Networks." *Political Psychology* 38, no. 3 (June): 551-569. doi.org/10.1111/pops.12337

## Work in Progress

"Meaning in Hyperspace: Word Embeddings as Method and Theory", with Alina Arsniev-Koehler and Ethan Johnston(\*). Commissioned for *Annual Review of Sociology*.

"Forging better Axes: Methods for Estimating Semantic Dimensions with Word Embeddings", with Ethan Johnston(\*). Revise and resubmit at *Sociological Methods and Research*

"The Unbearable Linearity of Being: Measuring Complexity across Different Cultural Domains"

## Patents

Nepomniachtchi, Grigori and Andrei Boutyline. Two patents for "Method for Applying Signature Simplicity Analysis for Improving the Accuracy of Signature Validation."

— 2013. *Patent No. 8,452,098*. Washington, DC: U.S. Patent and Trademark Office.

— 2010. *Patent No. 7,787,695*. Washington, DC: U.S. Patent and Trademark Office.

## Selected Awards and Honors

*American Sociological Association, Social Psychology Section*. Honorable mention, Outstanding Recent Contribution in Social Psychology Award. 2023.

*American Sociological Association, Culture Section*. Honorable mention, Clifford Geertz prize for best article. 2022.

*American Sociological Association, Section on Methodology*. Honorable mention, best paper award for graduate students. 2016.

*American Sociological Association, Mathematical Sociology Section*. Winner, best paper award for graduate students. 2015.

*National Science Foundation Graduate Research Fellowship Program*. 2011 – 2014. (\$92,000).

*National Science Foundation Integrated Graduate Education Research Traineeship in Politics, Economics, Psychology, and Public Policy (NSF-IGERT)*. 2010 – 2011. (\$30,000).

*A. Richard Diebold Fellowship in Sociology*. University of Calif., Berkeley. 2009 – 2010. (\$8,000).

*The Herbert and Rose Hirschhorn Thesis Award*. Graduate School of Arts and Science, New York University. 2009.

## Invited Talks

- “Taming the Wild West: Increasing the Reliability and Validity of Cultural Measurement via Word Embeddings”  
— *Polarization and Social Change Workshop*. Sociology Dept, Stanford. May 2023.
- “Cultural Schemas: What They Are, How to Find Them, and What to Do Once You've Caught One”  
— *Culture and Politics Workshop*. Pennsylvania State University. October 2020
- “School, Studying, and Smarts: The Gender of Education Across 80 Years of American Print Media, 1930-2009”  
— *The Knowledge Lab*. University of Chicago. February 2020  
— *Computational Methods and Historical Social Science conference*. Yale, April 2020 (postponed due to Covid)
- “What Explains The Systematic Character of Political Attitudes? Evidence from Two Novel Methods for Structural Analysis of Culture”  
— *Computational Sociology Working Group*. UCLA. April 2017.  
— *Theory Workshop*. Sociology Dept., University of Iowa. January 2017.  
— *Morality and Hierarchy Workshop*. Sociology Dept., Stanford University. October 2016.  
— *Duke Network Analysis Center*. Duke University. February 2016.
- “The Field Structure of Public Opinion: Theory and Methods for a Cognitive Macro-Sociology”  
— *Culture Workshop*. Sociology Department, Duke University. April 2014.  
— *Laboratory for Social Research*. Sociology Dept., Stanford University. November 2013.

## Selected Conference Presentations

- “Forging Better Axes: A New Analogy-Based Technique for Improving Cultural Measurement via Word Embeddings”  
— *American Sociological Association conference*. Philadelphia, PA. Aug. 2023.
- “Cultural Schemas: a Conceptual Re-Orientation (with Free How-To Guide)”  
— *American Sociological Association conference*. Philadelphia, PA. Aug. 2019. (*invited session*)
- “To Hold a Position: Public Opinion as Cognition in a Disorganized Field”  
— *American Sociological Association conference*. Montreal, QC. Aug. 2017.
- “The Unbearable Linearity of Being: Measuring Complexity of ‘Culture-in-the-Mind’”  
— *Culture and Cognition Mini-Conference at the Eastern Sociological Society*. Philadelphia, PA. February 25, 2017.
- “Towards a Cognitive Macro-Sociology of Culture”  
— *American Sociological Association annual meeting*. Seattle, August 2016 (*invited panel*)
- “Belief Network Analysis: Findings from a Novel Structural Methodology” (with Stephen Vaisey)  
— *American Sociological Association annual meeting*. Chicago, IL. August 2015.
- “Improving the Measurement of Shared Cultural Schemas with Correlational Class Analysis”  
— *American Sociological Association annual meeting*. San Francisco, CA. August 2014.
- “Belief Network Analysis: A Relational Approach to Understanding the Structure of Attitudes” (with Stephen Vaisey)

- *American Sociological Association annual meeting*, August 2012. Denver, CO.
- *Political Networks conference*, June 2012. Boulder, CO.
- *International Network for Social Network Analysis conference (Sunbelt)*, February 2012. Redondo Beach, CA.

“The Social Structure of Political Echo Chambers: Ideology and Political Homophily in Online Communication Networks” (with Robb Willer)

- *Group Processes conference*. August 2013. New York, NY.
- *American Sociological Association annual meeting*, August 2011. Las Vegas, NV.
- *Political Networks conference*, June 2011. Ann Arbor, MI.
- *European Network of Analytical Sociologists conference*, June 2011. Paris, Fr.
- *International Network for Social Network Analysis conference (Sunbelt)*, February 2011. St. Pete Beach, FL.

## Teaching

### Graduate

- *Culture and Cognition*. University of Michigan, Winter 2018, 2020, 2023
- *Social Network Analysis*. University of Michigan, Winter 2019
- *Measuring and Modeling Culture*. University of Michigan, Fall 2019, Winter 2020, 2022.  
(\* graduate research workshop co-facilitated with Margaret Frye)

### Undergraduate

- *Research Methods*. University of Michigan, Winter 2019, Fall 2019, 2022, 2023
- *Culture and Cognition*. University of Michigan, Winter 2020, 2022, 2023
- *Introduction to Statistics*. University of Michigan, Fall 2017

## Professional Service

Occasional reviewer	<i>American Journal of Sociology, American Sociological Review, American Journal of Political Science, Journal of Personality and Social Psychology, British Journal of Sociology, Social Forces, Demography, Poetics, Sociological Methodology, Social Networks, Social Psychology Quarterly, Socio-Economic Review, Socius, Social Science Research, and other venues</i>
Maintainer	<i>corclass R package for Correlational Class Analysis (on CRAN)</i>
Member	<i>American Sociological Association</i>

## Selected Linguistic and Pseudo-Linguistic Proficiencies

Human languages:	<i>English (fluent), Russian (fluent)</i>
Data analysis and software development:	<i>R, Python, MySQL, C/C++, Java, ...</i>
Design of surveys and experiments:	<i>HTML, CSS, JavaScript, Qualtrics, Mechanical Turk</i>