

Travis A. Riddle

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Current Position

Postdoctoral Research Scientist - Columbia University 2014-Present

Department of Psychology & The Center for Computational Learning Systems

- Co-wrote funding proposals and co-direct research for federally and institutionally funded project investigating the linguistic characteristics of an educational intervention
- Mentor undergraduate and graduate students through independent research projects
- Act as statistical, methodological, and computational consultant for graduate students in the Psychology Department

Education

Ph.D., Columbia University 2014

Dissertation: *Reporting on the temporal properties of subliminal events*

Advisors: Betsy Sparrow and Hakwan Lau

M.Phil, Columbia University 2013

M.A., Columbia University 2011

M.A., San Francisco State University 2009

B.A., *cum laude*, San Francisco State University 2006

Research Interests

- Group disparities in health, education, criminal justice, and access to public goods
- Meta-science, especially the communication of research findings
- Computational and quantitative approaches to human social behavior

Teaching Interests

General Psychology, Social Psychology, Research Methods, Statistics, Computational Social Science

Awards & Fellowships

Data Science For Social Good Fellow	2016 (declined)
Berkeley Institute for Transparency in Social Sciences Fellow	2015
Summer Teaching Scholars Award	2013
Columbia University Psychology Department Travel Award	2010-2014

Past Professional Positions

Academic Appointments

Columbia University Graduate Research & Teaching Fellow	2009-2014
Established and lead research programs on the social psychology of control and the awareness of visual stimuli. Taught and assisted in teaching classes on perception, social cognition, and statistics. Organized departmental events and mentored undergraduate research projects	

Statistical & Methodological Consultant

The Urban Institute	2016
Engineered system to extract data from the state of Maryland government websites	
ISERP, Columbia University	2012-2014
Provide statistical consultation to University affiliates	

Professional Assistant

Dr. Margaret F. Lynch, San Francisco State University	2008
Prepared lecture materials, directed teaching assistants and tutors, graded exams	

Research Assistant

Women's Health & Hormones Lab, UCSF	2006
Acted as confederate for study on stress and eating habits, manually cleaned psychophysiology data	
Dr. Rosemarie Bowler's Clinical Neuropsychology Office	2006
Administered surveys for a study on manganese exposure in welders on the San Francisco Bay Bridge	
Dr. Avi Ben-Zeev's Cognitive Psychology Lab, San Francisco State University	2004
Ran participants in a study on the effects of stereotype threat on psychophysiological responses	

Professional and Community Service

Reviewer

- Society for Personality and Social Psychology Student Poster Competition
- Intel Science Talent Search

Organizer

- Columbia University Psychology Department Social Snack Speaker Series
- Columbia University Psychology Department Girls' Science Day

Speaker

- Rubin Museum of Art - Brainwave movie series
- Columbia University Grad Student Professional Development Seminar

Manuscripts in Preparation

Riddle, T.A., Muresan, S., Cook, J.E., Cohen, G., Garcia, J. & Purdie-Vaughns, V. (in prep). The surprising effectiveness of values affirmation interventions.

Riddle, T.A., Muresan, S., & Purdie-Vaughns, V. (in prep). The language of scientific integrity.

Riddle, T.A., Muresan, S., & Purdie-Vaughns, V. (in prep). Detecting uncertainty in values affirmation interventions.

Riddle, T.A., Mohandoss, V., Muresan, S., Cohen, G., Cook, J. & Purdie-Vaughns, V. (under review). Mining a written educational intervention using a latent feature topic model.

Publications

Riddle, T.A., Lau, H., Sparrow, B. (2015). Reporting on the temporal properties of visual events masked with continuous flash suppression. *Consciousness & Cognition*, 36, 154-168.

Riddle, T.A., Bhagavatula, S., Guo, W., Muresan, S., Cohen, G., Cook, J. & Purdie-Vaughns, V. (2015). Mining a written values affirmation to identify the unique linguistic features of stigmatized groups. In *Proceedings of the 8th International Conference on Educational Data Mining*. International Educational Data Mining Society.

Riddle, T.A., Rosen, H.J., & Morsella, E. (2015). Is that me? Sense of agency as a function of intra-psychic conflict. *Journal of Mind and Behavior*, 36, 27-46.

Morsella, E., Lynn, M.T., & **Riddle, T.A.** (2013). Illusion of voluntary action. In H. Pashler (Ed.), *The encyclopedia of the mind*. Thousand Oaks, CA: Sage.

Lynn, M.T , **Riddle, T.A.**, & Morsella, E. (2012). The phenomenology of quitting: Effects from repetition and cognitive effort, *Korean Journal of Cognitive Science*, 23, 25-45.

- Riddle, T.A.** & Craw, J. (2011). Good for the goose, bad for the gander?: A critical look at the traditional graduate training paradigm. *Observer*, 24(7).
- McMahon, K., Sparrow, B., Chatman, L., & **Riddle, T.A.** (2011). Driven to distraction: The impact of distracter type on unconscious decision making. *Social Cognition*, 29, 683-689.
- Lynn, M.T., Berger, C.C., **Riddle, T.A.**, Morsella, E. (2010). Mind control? Creating illusory intentions through a phony brain-computer interface. *Consciousness and Cognition*, 19, 1007-1012.
- Morsella, E., **Riddle, T.A.**, & Bargh, J.A. (2009). Undermining the foundations: Questioning the basic notions of associationism and mental representation. *Behavioral and Brain Sciences*, 32, 218-219.

Essays

- “Scientists show facebook is a downer” Travis Riddle, *Scientific American (Mind Matters)*. October 1, 2013
- “Control your urges with a ride on the mind bus” Travis Riddle, *Scientific American (Mind Matters)*. September 3, 2013
- “How your moral decisions are shaped by a bad mood” Travis Riddle, *Scientific American (Mind Matters)*. March 12, 2013
- “Scientists dissect the psychology of ‘truthiness’” Travis Riddle, *Scientific American (Mind Matters)*. October 31, 2012
- “Liars: It takes one to know one “ Travis Riddle, *Scientific American (Mind Matters)*. July 24, 2012
- “How creativity connects with immorality” Travis Riddle, *Scientific American (Mind Matters)*. April 24, 2012
- “The neuroscience of Barbie” Travis Riddle, *Scientific American (Mind Matters)*. November 8, 2011.
- “How a war protest can increase support for the war” Travis Riddle, *Scientific American (Mind Matters)*. July 5, 2011.
- “Houseplants make you smarter” Travis Riddle, *Scientific American (Mind Matters)*. March 15, 2011.

Talks

Symposia Chaired

Riddle, T.A. (2016, January). *Hypothesis driven computational social science*. Symposium chaired at the Annual Meeting of the Society for Personality & Social Psychology, San Diego, CA

Conference presentations

Riddle, T.A., Muresan, S., Purdie-Vaughns, V., Cook, J. & Cohen, G. (2016, January). *The effect of linguistic uncertainty in self-affirmations*. Presented at the Annual Meeting of the Society for Personal & Social Psychology, San Diego, CA

Riddle, T.A., Muresan, S., Cook, J., Cohen, C., & Purdie-Vaughns, V. (2015, June). *Mining a written values affirmation to identify the unique linguistic features of stigmatized groups*. Presented at the Annual Meeting of the International Educational Data Mining Society, Madrid, Spain

Riddle, T.A., Muresan, S., Cook, J., Cohen, C., Purdie-Vaughns, V. (2015, May). *Detecting uncertainty in self-affirmation interventions*. Presented at the Annual Meeting of the Association for Psychological Science, New York, NY

Muresan, S., **Riddle, T.A.**, Cook, J., Cohen, C., & Purdie-Vaughns, V. (2015, May). *Investigating the content of values-affirmation interventions: A data-driven approach to discovering topics in affirmation essays*. Presented at the Annual Meeting of the Association for Psychological Science, New York, NY

Riddle, T.A., Sparrow, B. & Lau, H. (2013, May) *Temporal judgments of unconscious events*. Presented at the Annual Four Colleges Conference, Princeton, NJ

Riddle, T.A. & Sparrow, B. (2012, April) *Representing and controlling other minds*. Presented at the Annual Four Colleges Conference, New Haven, CT

Invited talks

Columbia University - Social Relations Lab RA Seminar	July 2016
Columbia University - Monday Seminar	March 2016
Stanford University - Psychological Interventions in Education Science	February 2016
Stanford University - Psychological Interventions & Scalable Technology Workshop	December 2014
New York University - Balcetis Lab	April 2012

Columbia University - Social Psychology
Columbia University - Social Psychology
Columbia University - Social Psychology

March 2012
May 2011
May 2010

Poster Presentations

Bhagavatula, S.S., Backer, R., **Riddle, T.A.**, Muresan, S., Purdie-Vaughns, V. *Content analysis of values affirmation essays.* (2016) Poster presented at the Annual Meeting of the Society for Personality and Social Psychology Conference, San Diego, CA.

Riddle, T.A., Bhagavatula, S.S., Guo, W., Muresan, S., Cohen, G., Cook, J. & Purdie-Vaughns, V. *Using natural language processing to investigate a values-affirmation intervention.* (2015). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, Long Beach, CA

Chatman, L., **Riddle, T.A.**, Vukcevic, L., Gottlieb, G., & Sparrow, B. *Emotional reactions to free will and determinism primes by Sandy survivors.* (2013). Poster presented at the Annual Meeting of the Association for Psychological Science, Washington D.C.

Riddle, T.A. & Sparrow, B. *Machine learning pattern classification as an approach to analyzing text data: An exploration of creative writing.* (2013). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA.

Riddle, T.A. & Sparrow, B. *The experience and loss of control over imaginary minds.* (2012). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.

Riddle, T.A., Lau, H. & Sparrow, B. *Temporal judgments of unconscious events.* (2012). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.

Riddle, T.A. & Sparrow, B. *The perception of imaginary agents in creative writing.* (2011). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX.

Molapour, T., Lynn, M. T., Zarolia, P., **Riddle, T. A.**, & Morsella, E. *Valence from conflict: Its influence on likeability of perceptible and subliminal stimuli.* (2010). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, Las Vegas, NV

Berger, C. C., Lynn, M. T., **Riddle, T. A.**, & Morsella, E. *The 'what' of doing: Lay perceptions of action and illusory intentions to act.* (2010). Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, Las Vegas, NV.

Rigby, T., Gerrits, T., **Riddle, T.A.**, Berger, C., & Morsella, E. *Conscious of conflict but not of the eliciting stimulus: Implications for the neuroscience of cognitive control.* (2009). Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Riddle, T.A., & Morsella, E. *Is that me? Authorship processing as a function of intra-psychic conflict.* (2009). Poster presented at the Annual Meeting of the Association for Psychological Science, San Francisco, CA.

Riddle, T.A., & Morsella, E. *Automaticity and authorship processing.* (2008). Poster presented at the inter-institutional Graduate Research Showcase, San Francisco State University, San Francisco, CA.

Riddle, T.A., Cosley, B., & Ben-Zeev, A. *Effects of stereotype threat on impression management and perceived fraudulence.* (2006). Poster presented at the Psi Chi Student Conference, San Francisco State University, San Francisco, CA.

Teaching Experience

Instructor

Computation and Statistics	(graduate workshop)
Social Psychology	(undergraduate lecture)
Introduction to Research Methods	(undergraduate lecture and lab)
Introduction to Science of Psychology	(high school lecture and lab)
The Psychology of Control	(undergraduate seminar)

Graduate Teaching Assistant

Attention & Perception	(undergraduate lecture)
Science of Psychology	(undergraduate lecture)
Social Cognition	(undergraduate lecture)
Introduction to Psychological Statistics	(undergraduate lab and lecture)
Introduction to Research Methods	(undergraduate lab and lecture)
General Psychology	(undergraduate lecture)

Mentor

<u>Student and Department</u>	<u>Post-graduation</u>
Zach Glaser, B.A. - Psychology	Infosys Consulting
Guided analysis and writing of an age/race implicit associations task project	

Sowmya Sree Bhagavatula, M.S. - Computer Science Jointly conceptualized a topic modeling approach to exploring a written educational intervention.	Google
Vikas Mohandoss, M.S. - Computer Science Jointly applied a distributed word representation topic model to a written educational intervention	Graduation 2017
Nathen Huang, M.A. - Quantitative Methods in Social Science Guided analysis and writing of project on differences in the perceptions of the legal system as a function of race and income	Booz Hamilton
Julia Bottesini, Post-Baccalaureate - Psychology Jointly conducted research project computationally identifying images of police militarization in press photographs from 2014 Ferguson protests	Graduation 2017
Kyle Johnson, B.A. - Computer Science & Statistics Applied aspect-sentiment topic model to news coverage of 2014 Ferguson protests	Graduation 2018

Affiliations

Society for Personality and Social Psychology, International Educational Data Mining Society, Association for Psychological Science, Sigma Xi, New York Academy of Sciences

Skills

R, Python, Matlab, html, php, Stan, cluster computing, web scraping, social media analysis, hierarchical/multilevel models, bayesian inference, text analysis, Git, Github, SQL, XML

References

Valerie Purdie-Vaughns
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