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EDUCATION

PhD	Psychology	Claremont Graduate University	2010
MA	Social Psychology	Claremont Graduate University	2007
BA	Psychology	Humboldt State University	2003

PROFESSIONAL EXPERIENCE

Academic

Research Assistant Professor July 2011- Present	Department of Economics Claremont Graduate University, Claremont, CA <i>Course: Behavioral Neuroscience of Decision-Making</i>
Assistant Director July 2011- Present	Center for Neuroeconomics Studies Claremont Graduate University, Claremont, CA
Visiting Assistant Professor, Biology. Spring 2014	Claremont McKenna College, Claremont, CA <i>Course: Foundations of Neuroscience</i>
Postdoctoral Scholar June 2010- June 2011	Center for Neuroeconomics Studies Claremont Graduate University, Claremont, CA
Adjunct Professor Fall 2010	Whittier College, Whittier, CA <i>Course: Psychology of Personality</i>
Adjunct Professor Spring 2008	University of La Verne, La Verne, CA <i>Seminar: Stress Management</i>

PUBLICATIONS AND INVITED PAPERS

*denotes senior author position

Barraza, J. A., Alexander, V., Beavin, L. E., Terris, E., & Zak, P. J. (2015). The heart of the story: Peripheral physiology during narrative exposure predicts charitable giving. *Biological Psychology*, *105*, 138-143. doi: 10.1016/j.biopsycho.2015.01.008.

Zahedzadeh, G., **Barraza, J. A.**, & Zak, P. J. (2015). Persuasive narratives and costly actions. *Terrorism and Political Violence*. doi: 10.1080/09546553.2015.1005077

* Bracken, B. K., Alexander, V., Zak, P. J., Romero, V., & **Barraza, J. A.** (2014). Physiological synchronization is associated with narrative emotionality and subsequent behavioral response. In *Foundations of Augmented Cognition. Advancing Human Performance and Decision-Making through Adaptive Systems* (pp. 3-13). Springer International Publishing.

Barraza, J. A. (2014). Neuroscientific Considerations of Trust and Influence. In Diane DiEuliis, William Casebeer, Dr. Jim Giordano, Nick Wright, & Hriar Cabayan (Eds.), *Leveraging Neuroscientific and Neurotechnological (NeuroS&T) Developments with Focus on Influence and Deterrence in a Networked World*. U.S. Department of Defense.

Barraza, J. A., Grewal, N. S., Ropacki, S., Perez, P., Gonzalez, A., & Zak P. J. (2013). Effects of a 10-day oxytocin trial in older adults on health and well-being. *Experimental and Clinical Psychopharmacology*, *21*, 85-92. doi: 10.1037/a0031581.

Barraza, J. A., & Zak P. J. (2013). Oxytocin instantiates empathy and promotes prosocial behavior. In E. Choleris, D. Pfaff, and Dr M. Kavaliers (Eds.), *Oxytocin, Vasopressin and Related Peptides in the Regulation of Behavior*.

Zak, P.J., and **Barraza, J.A.** (2013). Neurobiology of collective action. *Frontiers in Neuroscience*. Vol. 7 No. 211; doi:10.3389/fnins.2013.00211

Barraza, J. A., McCullough, M. E., Ahmadi S., & Zak, P. J. (2011). Oxytocin infusion increases charitable donations regardless of monetary resources. *Hormones and Behavior*, *60*, 148-151. doi:10.1016/j.yhbeh.2011.04.008

Barraza, J. A. (2011). Positive emotional expectations predict volunteer outcomes for new volunteers. *Motivation and Emotion*, *35*, 211-219. doi: 10.1007/s11031-011-9210-4

Barraza, J. A., & Zak P. J. (2009). Empathy toward strangers triggers oxytocin release and subsequent generosity. *Annals of the New York Academy of Sciences*, *1167*, 182-189.

Omoto, A M., Malsch, A. M., & **Barraza, J. A.** (2008). Compassionate acts: Motivations and correlates of volunteerism among older adults. In L. Underwood, S. Sprecher, & B. Fehr (Eds.), *The Science of Compassionate Love: Theory, Research, and Applications*. Malden, MA: Wiley-Blackwell.

PAPERS UNDER REVIEW/ PREPARATION

Willoughby, A. R., **Barraza, J. A.,** Javitz, H., Roach, B. J., Harrison, M. T., et al. (in review). Neurophysiological and neuroendocrine correlates of trust in the Investment Game.

Barraza, J. A., Alexander, V., & Zak, P. J. (in preparation). Affective and behavioral correlates of autonomic inter-subject correlation during narrative experience.

Barraza, J. A., Terris, E., Horowitz, Y., & Zak, P. J. (in preparation). Oxytocin increases brand love.

Kettering, V. L., Zahedzadeh, G., Zak, P. J., Spezio, M. L., & **Barraza, J. A.** (in preparation). Comparing physiological, psychological, and social outcomes across meditative practices.

GRANTS

(\$1,692,079)

Why Trust and Algorithm?
Co- Principal Investigator
BLAIS Foundation

\$15,500. Awarded July 1, 2014 (7/14- 6/15)

Feeling and Thinking in Charitable Giving

Principal Investigator
Fletcher Jones Foundation
\$4,500. Awarded May 2013 (7/13-12/14)

Studies to Operationalize Neuro-Narrative Science for Effective Tools (SONNET) Project

Subcontract: co-Principal Investigator (PI: Paul Zak)
Defense Advanced Research Projects Agency (DARPA)
\$394,636. Awarded July 2012 (7/12-7/14)

Protocols Assessing Interpersonal Trust (PAINTR) Project

Subcontract: co-Principal Investigator (PI: Paul Zak)
Intelligence Advanced Research Projects Activity (IARPA)
\$893,577. Awarded August 2011 (8/11-9/12)

Physiologic Markers of Persuasive Messages

co-Principal Investigator (PI: Paul Zak)
Defense Advanced Research Projects Agency (DARPA)
\$399,366. Awarded April 2011 (8/11-9/13)

PRESENTATIONS

Invited Talks

The Neurobiology of Narrative Influence.

Narrative Neuroscience: Neurologically Based Impacts of Narratives on Emotions, Reasoning, and Behavior. *Symposium co-Chair*. Association for Psychological Science, San Francisco, CA, May 25, 2014.

The Heart of the Story: Peripheral Physiology During Narrative Exposure Predicts Charitable Giving.

West Coast Experiments Conference, Claremont CA, May 9, 2014.

The (Social) Neurobiology of Influence.

Leveraging Neuroscientific and Neurotechnological (NeuroS&T) Developments with Focus on Influence and Deterrence in a Networked World Workshop, Washington, D.C., October 17, 2013.

The Neurobiology of Story and Influence.

Claremont Graduate University, September 17, 2013.

Focusing on Others: Experiments in Helping, Empathy, and Oxytocin.

Colgate University, April 19, 2011.

Oxytocin is Associated With the Experience of Empathy Toward Strangers.

Values and Empathy Across Social Barriers: A Neurocognitive Approach to Fairness (NYAS sponsored conference), November 2008.

Oxytocin and Trust Between Humans.

Presented to the Intelligence Science Board- Cognitive Neuroscience: Implications for the Intelligence Community, September 2008.

SERVICE AND COMMITTEE WORK

Journal Referee

Biological Psychology
Hormones and Behavior
PLOS ONE
Journal of Gerontology: Social Sciences

Dissertation Committee Member

- Patrick Williams, 2013 *"The Effect of Compassion-based Meditative Practice on Systems Mediating Cooperative Behavior: Evidence Linking Physiology to Behavior"*
- Veronika Alexander, 2014 *"Neuroeconomics of Human and Organizational Performance"*
- Giti Zahedzadeh, 2014 (current) *"Trust, Cheap Talk, and Deception in Bargaining: An Experimental Approach"*

Undergraduate Thesis

- Alexa A. Clark, 2014 *"Correlation Between Crime, Oxytocin, and Generosity"* (Scripps College)
- Amelia Mainardi, 2014 *"Heart Rate Variability and Plasma Oxytocin Across a Two-Week Period"* (Scripps College)
- Margot Penn, 2015 *"The Neurophysiological Effects of Socialization and Alcohol on Risk for Heart Disease"* (Claremont McKenna College)
- Emily Goodlin, 2015 *"The Relationship Between Vagal Tone, A Marker of Parasympathetic Activity, and Pro-Social Behavior"* (Scripps College)