

## NICOLE SENEAL COOPER

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### Education

- 2008 – 2013      Ph.D., Neuroscience  
University of Pennsylvania, Philadelphia, PA  
Advisor: Dr. Joseph Kable
- 2004 – 2008      B.S./B.S. in Neuroscience and Psychology, *summa cum laude*  
Brandeis University, Waltham, MA  
Advisor: Dr. Arthur Wingfield

### Employment

- 2016 – present    Postdoctoral Fellow  
U.S. Army Research Laboratory, Aberdeen Proving Ground, MD  
Advisor: Dr. Jean Vettel
- 2016 – present    Visiting Scholar  
Annenberg School for Communication  
University of Pennsylvania, Philadelphia, PA
- 2014 – 2016      Postdoctoral Researcher  
Annenberg School for Communication  
University of Pennsylvania, Philadelphia, PA  
Advisor: Dr. Emily Falk

### Grant Support

NIH-NCI P50 CA179546, 09/14-08/16. *Neural predictors of exposure effects in tobacco graphic warning images: A dynamic network neuroscience approach*. Role: Co-PI, Pilot project.

NIH Training Program in Behavioral and Cognitive Neuroscience, appointment Mar 2011 – Dec 2013

### Publications

**Cooper N**, Bassett BS, Falk EB. (2017) “Coherent activity between brain regions that code for value is linked to the malleability of human behavior”. *Scientific Reports* 7, 43250; doi: 10.1038/srep43250

**Cooper N**, Tompson S, O’Donnell MB, Falk EB (2015) “Brain activity in self- and value-related regions in response to online smoking messages predicts behavior change.” *Journal of Media*

*Psychology*, 27(3), 93-108.

Gilad-Dotan S, Tymula A, **Cooper N**, Kable JW, Glimcher PW, Levy I (2014). "Neuroanatomy predicts individual risk attitudes." *The Journal of Neuroscience*, 34(37), 12394-12401.

**Cooper N**, Kable JW, Kim BK, Zauberman G (2013). "Brain activity in valuation regions while thinking about the future predicts individual discount rates." *The Journal of Neuroscience*, 33(32), 13150-13156.

**Senecal N**, Wang T, Thompson E, Kable JW (2012). "Normative arguments from experts and peers reduce delay discounting." *Judgment and Decision Making*, 7(5) p568-589.

Lerman C, Loughhead J, Ray R, Wileyto EP, Ruparel K, **Senecal N**, O'Donnell G, Siegel S, Gur R (2013). "Brain activity and emotional processing in smokers treated with varenicline." *Addiction Biology*, 18(4) p732-8. [epub ahead of print 2011]

### Conference Posters

**Cooper N**, Tompson S, O'Donnell MB, Vettel JM, Bassett DS, Falk EB. *Coherent neural activity in the brain's value system during antismoking messages is linked to reductions in smoking*. International Communication Association Annual Meeting, 2017.

**Cooper N**, Garcia JO, Tompson S, O'Donnell MB, Vettel JM, Falk EB. *Allegiance and flexibility in neural networks forecast responses to health messaging*. Social and Affective Neuroscience Society Annual Meeting, 2017.

Scholz C, **Cooper N**, Falk EB. *Does Self Equal Value? An fMRI Study on the Neural Distinction of Self- and Value-Related Processing in VMPFC*. SANS Meeting Program, New York, NY: Social and Affective Neuroscience Society, 2016 (poster). Online.

Scholz C, **Cooper N**, Falk EB. *Does Self Equal Value? An fMRI Study on the Neural Distinction of Self- and Value-Related Processing in VMPFC*. SPSP Meeting Program, San Diego, CA: Society for Personality and Social Psychology, 2016 (poster). Online.

**Cooper N**, Tompson S, O'Donnell MB, Falk EB. *Functional connectivity during antismoking messages predicts behavior change*. Poster session A-6, SANS Meeting Program, Boston, MA: Social and Affective Neuroscience Society, 2015 (poster). Online

Mukherjee D, **Cooper N**, Feng T, Kable JW. *East or west – Patience pays: Achievement, aptitude, and delay discounting across cultures*. Poster session II No. 31, 2013 Society for Neuroeconomics Meeting Program. Lausanne, Switzerland: Society for Neuroeconomics, 2013 (poster). Online.

**Senecal N**, Kable JW, Kim BK, Zauberman G. *Neural activity in valuation regions during temporal judgments predicts individual discount rates*. Poster session I No. 25, 2012 Society for Neuroeconomics Meeting program. Key Biscayne, FL: Society for Neuroeconomics, 2012 (poster). Online.

**Senecal N**, McGuire J, Kable JW. *Individual variation in value-responsive cortical topography*. Program No. 403.14/YY1. 2011 Neuroscience Meeting Planner. Washington, D.C.: Society for Neuroscience, 2011 (poster). Online.

**Senecal N**, Kable JW. *Neural differentiation of decision value and decision confidence in human fMRI*. Poster session II No. 20. 2011 Society for Neuroeconomics Meeting Program. Evanston, IL: Society for Neuroeconomics, 2011 (poster). Online.

**Senecal N**, Kable JW. *Exposure to economic arguments reduces delay discounting*. Poster No. D128. 2010 CNS Meeting Program. Montreal, Canada: Cognitive Neuroscience Society, 2010 (poster). Online.

**Senecal N**, Kable JW. *Financial education reduces delay discounting*. Poster session I No. 32. 20. 2010 Society for Neuroeconomics Meeting Program. Evanston, IL: Society for Neuroeconomics, 2010 (poster). Online.

### Conference Talks

**Cooper N**, Tompson S, O'Donnell MB, Falk EB. *Brain activity in self- and value-related regions in response to online smoking messages predicts behavior change*. Paper Session 5, SRNT Meeting Program, Philadelphia, PA: Society for Research on Nicotine and Tobacco Annual Meeting, 2015 (podium talk). Online.

### Department Talks

- 2015 Tobacco Center of Regulatory Science, Health communications data meeting. "Functional connectivity during health messages predicts behavior change."
- 2014 Tobacco Center of Regulatory Science, Health communications data meeting. "Brain activity in self- and value-related regions in response to online antismoking messages predicts behavior change."
- 2013 Behavioral and Cognitive Neuroscience trainee retreat. "The neural representation of value and individual differences in human intertemporal choice."
- 2013 Center for Cognitive Neuroscience talk series. "Delay discounting: Individual differences and the brain."

### Honors and Awards

Reis and Sowel Family Prize in Neuroscience, Brandeis University, 2008  
Dean's List, Brandeis University, 2004 – 2008

### Professional Affiliations

Social and Affective Neuroscience Society  
International Communication Association  
Society for Neuroscience

Society for Research on Nicotine and Tobacco (2014-2015)  
Society for Neuroeconomics (2009 – 2014)  
Cognitive Neuroscience Society (2009 – 2010)