

Kimberlee D'Ardenne, PhD, ELS

Research Assistant Professor
Arizona State University

Education

Editor in the Life Sciences Board of Editors in the Life Sciences (BELS)	2014
Virginia Tech Carilion Research Institute, Roanoke, VA Postdoctoral research fellow, Human Neuroimaging Laboratory adviser: P. Read Montague, PhD	2010-2013
Baylor College of Medicine, Houston, TX Postdoctoral research fellow, Human Neuroimaging Laboratory adviser: P. Read Montague, PhD	2008-2010
Princeton University, Princeton, NJ PhD in Chemistry and Neuroscience, 2008 adviser: Jonathan D. Cohen, MD, PhD Master of Arts in Chemistry, 2003 adviser: Wolfgang Richter, PhD	2002-2008
Davidson College, Davidson, NC Bachelor of Science, graduated Cum Laude (GPA greater than 3.5) Honors in Chemistry (successfully defended senior thesis, Chemistry GPA greater than 3.5)	1998-2002

Science Writing Experience

Freelance Science Editor Armstrong-Hilton Editing	2017-
Science Writing Intern Office of Communications and Public Affairs Stanford University School of Medicine	2015
Ghost Writer/Editor (layman book about psychology of decision making)	2014
Newspaper Editorial Intern <i>Palo Alto Weekly</i>	2013

Peer-Reviewed Publications

Peer reviewed papers

- Héту S, Luo Y, D'Ardenne K, Lohrenz T, Montague PR. 2017. Human substantia nigra and ventral tegmental area involvement in computing social error signals during the ultimatum game. *Soc Cogn Affect Neurosci*. 12(2): 1972-1982.
- Aydogan G, Jobst A, D'Ardenne K, Müller N, Kocher MG. 2017. The detrimental effects of oxytocin-induced conformity on dishonesty in competition. *Psych Science*. 28(6): 751-759.
- Héту S, Luo Y, Saez I, D'Ardenne K, Lohrenz T, Montague PR. 2016. Asymmetry in Functional Connectivity of the Human Habenula Revealed by High-Resolution Cardiac-Gated Resting State Imaging. *Human Brain Mapping* 37(1): 2602-2615.
- Hennigan K, D'Ardenne K, McClure SM. 2015. Distinct midbrain and habenula circuits are involved in processing aversive events in humans. *J Neurosci* 35(1): 198-208.
- D'Ardenne K, Lohrenz T, Bartley KA, Montague PR. 2013. Computational heterogeneity in the human brainstem dopamine system. *Cogn Affect Behav Neurosci* 13(4): 747-56.
- D'Ardenne K, Eshel N, Luka J, Lenartowicz A, Nystrom LE, Montague PR, Cohen JD. 2012. The role of the prefrontal cortex and midbrain dopamine system in working memory updating. *Proc Natl Acad Sci* 109(49): 19900-9.
[May 15, 2013: There is a mistake in this paper. We have notified the journal editors and are currently awaiting their response.
Nov. 26, 2013: At the editor's request, we submitted an erratum for publication.]
- Daubechies I, Roussos E, Takerkart S, Benharrosh M, Golden C, D'Ardenne K, Richter W, Cohen JD, Haxby J. 2009. ICA for brain fMRI does NOT select for independence. *Proc Natl Acad Sci*, 106(26): 10415-22.
- D'Ardenne K, McClure SM, Nystrom LE, Cohen JD. 2008. BOLD responses reflecting dopaminergic signals in the human ventral tegmental area. *Science* 319: 1264-1267.
- D'Ardenne McClure K, McClure SM, Richter MC, Richter W. 2005. Kinetics of the BOLD response depend on inter-stimulus time. *NeuroImage* 27: 817-823.

Book chapters

- McClure SM, D'Ardenne K. 2009. Computational neuroimaging: monitoring reward learning with blood flow. *Handbook of Reward and Decision Making*. Eds. Dreher JC, Tremblay L.

Conference abstracts

- Héту S, Luo Y, D'Ardenne K, Saez I, Montague PR (2015) Studying the connectivity between the habenula and substantia nigra/MTA during resting state decision-making. *Organization for human brain mapping*.
- Hennigan K, D'Ardenne K, McClure SM (2013) Dopaminergic midbrain and habenula functional connectivity underlie aversive processing in humans. *Society for Neuroscience*.
- D'Ardenne K, Lohrenz T, Bartley KA, Montague PR (2012) The impact of satiety change on brainstem dopamine system of smokers. *Society for Neuroeconomics*.

- D'Ardenne K and Montague PR. (2012) Brainstem fMRI reveals the impact of satiety change on the mesencephalic dopamine system of smokers. *Gordon Research Conference on in vivo Magnetic Resonance*.
- D'Ardenne K, Bartley, KA, Montague, PR (2011) BOLD responses in the SN and VTA of sated and unsated smokers: abstinence selectivity hypersensitizes unsated smokers' SN. *Society for Neuroscience*.
- Hennigan, K, Yateman, J, D'Ardenne K, McClure SM (2011) Anatomical delineation of midbrain dopamine dorsal and ventral tiers in human. *Society for Neuroscience*.
- Saez, I, D'Ardenne K, Montague, PR (2011) Coding of negative reward prediction error signals by midbrain nuclei during a decision-making task. *Frontiers in Addiction Research: NIDA Mini-Convention*.
- D'Ardenne K, Bartley KA, Montague PR (2011) BOLD responses in the SN and VTA of sated and unsated smokers: abstinence selectivity hypersensitizes unsated smokers' SN. *Frontiers in Addiction Research: NIDA Mini-Convention*.
- D'Ardenne K and Montague PR (2010) Computational heterogeneity in the human dopamine system: the substantia nigra and ventral tegmental area compute experiential and fictive error learning signals. *Society for Neuroscience*.
- D'Ardenne K, McClure SM, Nystrom LE, Cohen JD (2007) BOLD responses in the dopaminergic ventral tegmental area. *Society for Neuroscience*.
- D'Ardenne McClure K, McClure SM, Nystrom LE, Cohen JD (2006) Functional MRI of midbrain dopamine nuclei. *Organization for Human Brain Mapping*.
- D'Ardenne KA, McClure SM, Richter MC, Cohen JD, Richter W (2004) Rest Matters: Kinetics of the BOLD response depend on inter-stimulus time. *Society for Neuroscience*.
- Benharrosh MS, Roussos EC, Takerkart S, D'Ardenne KA, Richter W, Cohen JD, Daubechies IC (2004) ICA components in fMRI analysis: Independent sources? *Neuroinformatics: The Human Brain Project*.
- D'Ardenne KA, McClure SM, Richter W (2004) Rest Matters: Hysteresis effects in the BOLD response. *Organization for Human Brain Mapping*.

Funding

Ongoing

Behavioral and Cognitive Science NSF (1634179; Co-PI) 2016-2019
 Title "Functional diversity of the human dopamine system"

Completed

Post-doctoral NRSA (1F32 DA027306; PI: Kimberlee D'Ardenne) 2010-2013
 Title: "Functional MRI of the brainstem dopamine system in nicotine addicts"

Institutional NRSA (T32 MH065214; PI: Jonathan D. Cohen) 2005-2007
 Title: "Training grant in quantitative neuroscience"

Awards

NIDA Mini-Convention, Early Career Investigator Travel Fellow	2011
Organization for Human Brain Mapping Travel Fellow	2004, 2006
American Chemical Society Analytical Chemistry Award	2002
Charles A. Dana Merit Scholar	2001-2002
Induction into Omicron Delta Kappa Leadership Society	2000
Georgia Scholastic Press Association Awards	1998
- Best Editorial, Best Feature Article, and Best Sports Section	

Teaching Experience

San José State University, San Jose, CA	2014
Psychology 230: Part-Time Faculty	
Graduate seminar in neuroscience	
Princeton University, Princeton, NJ	2003-2004
Chemistry 372: Laboratory Assistant Instructor	
Junior level laboratory course	
Chemistry 202: Lecture Assistant Instructor	
Second semester freshman chemistry	

Invited Talks

National Institute on Drug Abuse	July 2011
“fMRI of reward learning in the human brainstem dopamine system: implications for addiction”	
Duke University	July 2011
“fMRI of the human brainstem dopamine system”	
Winter Conference on Brain Research, Snowmass Colorado	Feb 2007
“Brainstem imaging: fMRI of midbrain dopamine nuclei and the locus coeruleus”	
Gatsby Computational Neuroscience Unit, University College London	July 2006
“Brainstem imaging: fMRI of midbrain dopamine neurons”	
Sackler Institute for Developmental Neuroscience, Cornell University	March 2006
“fMRI of midbrain dopamine neurons”	
Human Neuroimaging Laboratory, Baylor College of Medicine	July 2004
“Rest Matters: Hysteresis in the BOLD response”	
Princeton University Neuroscience Retreat, Princeton University	May 2004
“Rest Matters: Hysteresis in the BOLD response”	

Refereeing

Science

Nature Communications

The Journal of Neuroscience

NeuroImage

Trends in Cognitive Science

Neural Information Processing Systems

Cognitive, Affective, Behavioral Neuroscience

Biological Psychiatry