

# Angela Rădulescu

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## Education

**Princeton University**, Department of Psychology, Princeton, New Jersey  
Ph.D. in Cognitive Psychology and Neuroscience, 2014 – present  
Advisers: Yael Niv, Nicholas Turk-Browne

**Columbia University**, Columbia College, New York  
B.A. in Neuroscience and Behavior, Economics, 2007 – 2011

## Other courses

**Max Planck Institute for Intelligent Systems**, Tübingen, Germany  
Machine Learning Summer School, 2015

## Publications

Y Leong\*, **A Radulescu**\*, R Daniel, V DeWoskin, Y Niv. Dynamic interaction between reinforcement learning and attention in multidimensional environments (2017). *Neuron*. 93(2), 451-463. [\* denotes equally contributing authors].

**A Radulescu**, R Daniel, Y Niv (2016). The effects of aging on the interaction between reinforcement learning and attention. *Psychology and Aging*, 31(7), 747.

D Arkadir, **A Radulescu**, N Lubarr, D Raymond, SB Bressman, P Mazzoni, Y Niv (2016). DYT1 dystonia increases risk taking in human. *eLife*, 5, e14155.

Y Niv, R Daniel, A Geana, SJ Gershman, Y Leong, **A Radulescu**, RC Wilson (2015). Reinforcement learning in multidimensional environments relies on attention mechanisms. *Journal of Neuroscience*, 35, 8145-8157.

SJ Gershman, **A Radulescu**, KA Norman, Y Niv (2014). Statistical computations underlying the dynamics of memory updating. *PLoS Computational Biology*, 10, e1003939.

## Working papers

**A Radulescu**, K Holmes, Y Niv. A large-sample assessment of convergent validity in measures of risk sensitivity [in prep].

## Commentaries

Y Niv, AJ Langdon, **A Radulescu** (2014). A free-choice premium in the basal ganglia. *Trends in Cognitive Sciences*, 19(1), 4-5.

## Presentations

**A Radulescu**, C Allefeld, N Schuck, JD Haynes, Y Niv (2016). Studying value-guided decision making through model-based multivariate fMRI analysis [poster]. *Society for Neuroeconomics*, Berlin, Germany.

**A Radulescu**, Y Niv (2015). Learning state representations from experience [poster]. *Machine Learning Summer School*, Tübingen, Germany.

D Arkadir, **A Radulescu**, N Lubarr, D Raymond, SB Bressman, P Mazzoni, Y Niv (2015). Increased risk-taking in DYT1 dystonia suggests a link between striatal LTP/LTD and decision making in humans [abstract]. *5<sup>th</sup> Biennial Workshop on Dystonia: Controversies in Dystonia and Parkinsonism*, Rome, Italy.

R Daniel, **A Radulescu**, Y Niv (2014). Impaired learning in multidimensional environments in healthy human aging [poster]. *Society for Neuroscience Annual Meeting*, Washington, DC.

Y Leong, R Daniel, **A Radulescu**, Y Niv (2014). Behavioral and neural correlates of attentional control during learning [poster]. *Society of Cognitive Neuroscience Meeting*, Boston, MA.

D Arkadir, **A Radulescu**, N Lubarr, D Raymond, SB Bressman, P Mazzoni, Y Niv (2014). A link between corticostriatal plasticity and risk taking in humans [poster, presenting author]. *Computational and Systems Neuroscience (Cosyne)*, Salt Lake City, UT.

**A Radulescu**, R Daniel, Y Niv (2013). Age-related differences in learning to selectively attend [extended abstract]. *Reinforcement Learning and Decision-making (RLDM)*, Princeton, NJ.

R Daniel, V deWoskin, Y Leong, **A Radulescu**, Y Niv (2013). Humans employ selective attention when learning in complex environments: evidence from computational modeling and neuroimaging [extended abstract]. *Reinforcement learning and decision-making (RLDM)*, Princeton, NJ.

**A Radulescu**, R Daniel, Y Niv (2013). Age-related differences in learning to selectively attend [poster]. *Mechanisms of Motivation, Cognition, and Aging Interactions (MOMCAI)*, Washington, DC.

**A Radulescu**, Y Niv (2012). Age-related differences in learning to selectively attend [poster]. *Society for Neuroscience Annual Meeting*, New Orleans, LA.

E Eldar, **A Radulescu**, Y Niv, JD Cohen (2012). Norepinephrine, neural gain, and "first one wins" network dynamics [poster]. *Computational and Systems Neuroscience (Cosyne)*, Salt Lake City, UT.

**A Radulescu**, MH Phillips, J Gottlieb (2011). The reward modulation of visual stimuli during perceptual learning [poster]. *Columbia University Summer Undergraduate Research Symposium*, New York, NY.

## Previous research experience

Research Assistant / Lab Manager Adviser: Yael Niv, Princeton Neuroscience Institute	2011–2014
Undergraduate Researcher Adviser: Jacqueline Gottlieb, Columbia University	2010–2011
Undergraduate Researcher Adviser: Elke Weber, Columbia University	2009

## Awards and honors

The Charlotte and Morris Tanenbaum *52 Graduate Fellowship in the Physical or Life Sciences	2015
Travel Award, Computational and Systems Neuroscience (Cosyne)	2014
Travel Award, Mechanisms of Motivation, Cognition and Aging Interactions (MoMCAI)	2013
Dean's List, Columbia University	2011
Summer Undergraduate Research Fellowship (SURF), Columbia University	2010
Columbia University Scholars Program Research Fellowship	2009
Columbia College John Jay Scholar	2007

## Teaching

Assistant instructor. Developmental Psychology course <i>Department of Psychology, Princeton University</i>	2015
Volunteer instructor, pod leader. Introduction to Psychology course <i>Prison Teaching Initiative, Princeton University</i>	2015–present
Teaching assistant. Thinking and Decision Making course <i>Department of Psychology, Columbia University</i>	2010
Private tutor <i>Columbia University Tutoring and Translation Agency</i>	2007–2011

## Other projects

Assistant Video Editor <i>Narco Cultura</i> Pre-processed, translated and logged raw footage for feature length documentary on the cultural impact of the Mexican drug war; film was an official selection at the 2013 Sundance Film Festival and 2013 Berlin International Film Festival	2010–2012
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Photographer 2010–2011  
*99 Columbians*

Conceived, created and produced an independent multimedia documentary project on Columbia University's student body; online gallery reached an audience of 20,000 viewers within a week of launch

Photo Editor 2009–2010  
*Columbia Daily Spectator*

Oversaw ~20 staff members, managed section budget, supervised the daily image editorial process, developed training workshops