

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

Working papers

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

Journal articles

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.

Conference proceedings

P Hitchcock, **A Radulescu**, Y Niv, C Sims (2017). Building on solid ground: establishing the stability of computational modeling parameters. In Hitchcock, P. (Chair), *Introducing Computational Clinical Science: New Techniques to Improve Methods, Theory, Diagnosis, and Prediction*. Symposium to be presented at *51st Annual Convention for the Association for Behavioral and Cognitive Therapies*, San Diego, California.

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, Y Leong, Y Niv (2017). Reward-sensitive attention dynamics during human reinforcement learning [talk]. *Reinforcement Learning and Decision-Making*, Ann Arbor, MI.

A Radulescu, Y Leong, Y Niv (2017). Reward-sensitive attention dynamics during human reinforcement learning [talk]. *Vision Sciences Society*, St. Pete Beach, FL.

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]. *5th 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.

Awards and honors

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| Travel Award, Reinforcement Learning and Decision Making (RLDM) | 2017 |
| Cognitive Science Graduate Fellowship | 2017 |
| Liechtenstein Institute (LISD) Prison Teaching Initiative (PTI) Re-entry Fellowship | 2017 |
| 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

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

Mentoring

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| Julie Newman (Princeton undergrad) | 2017- |
| Jennifer Bu (Princeton undergrad) Thesis: "From Feature to Dimension: Generalization of Value-Driven Attentional Capture into a Multidimensional World" | 2015-2017 |

Previous research experience

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| 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 |

Other projects

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| 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 |
| Photographer <i>99 Columbians</i> 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 | 2010–2011 |
| Photo Editor <i>Columbia Daily Spectator</i> Oversaw ~20 staff members, managed section budget, supervised the daily image editorial process, developed training workshops | 2009–2010 |