

ANGELA RADULESCU

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EDUCATION

- 2014 – present **Princeton University**
Ph.D. Candidate in Cognitive Psychology and Neuroscience
Advisers: Yael Niv, Nathaniel Daw
- 2007 – 2011 **Columbia University**, Columbia College, New York
B.A. in Neuroscience and Behavior, Economics

AWARDS & HONORS

- 2017 Travel Award, Reinforcement Learning and Decision Making
- 2017 Cognitive Science Graduate Fellowship, Princeton University
- 2017 Re-entry Fellowship, Prison Teaching Initiative at Princeton University
- 2015 Charlotte and Morris Tanenbaum *52 Graduate Fellowship, Princeton University
- 2014 Travel Award, Computational and Systems Neuroscience (Cosyne)
- 2013 Travel Award, Mechanisms of Motivation, Cognition and Aging Interactions
- 2011 Dean's List, Columbia University
- 2010 Summer Undergraduate Research Fellowship, Columbia University
- 2007 John Jay Scholar, Columbia University

JOURNAL ARTICLES

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

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

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

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

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

PEER-REVIEWED CONFERENCE PROCEEDINGS

Radulescu A, Leong YC, Niv Y (2017). Reward sensitive attention dynamics during human reinforcement learning. *Computational Cognitive Neuroscience (CCN)*, New York, NY.

Radulescu A, Leong YC, Niv Y (2017). Reward sensitive attention dynamics during human reinforcement learning. *Reinforcement Learning and Decision Making (RLDM)*, Ann Arbor, MI.

Hitchcock P, **Radulescu A**, Niv Y, Sims C (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.

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

CONFERENCE TALKS

Radulescu A, Niv Y, Daw ND (2018). Approximate inference strategies for representation learning. *Manhattan Area Memory Meeting*, New York, NY.

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

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

COMMENTARIES

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

CONFERENCE POSTER PRESENTATIONS

(selected)

Radulescu A, Niv Y (2018). Separable attention processes constrain multidimensional reinforcement learning. *Society for Neuroscience Annual Meeting*, San Diego, CA.

Radulescu A, Leong YC, Niv Y (2017). Reward-sensitive attention dynamics during human reinforcement learning. *Computational Cognitive Neuroscience*, New York, NY.

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

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

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

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

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

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

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

SUMMER COURSES

- 2018 **Dartmouth University**, Hanover, NH
 Methods in Neuroscience at Dartmouth (MIND)
- 2015 **Max Planck Institute for Intelligent Systems**, Tübingen, Germany
 Machine Learning Summer School

TEACHING

- 2018 Assistant instructor, *Introduction to Cognitive Neuroscience*, Princeton University
- 2015 – present Instructor, team lead, *Introduction to Psychology*, Princeton Prison Teaching Initiative
- 2015 Assistant instructor, *Developmental Psychology*, Princeton University
- 2010 Teaching assistant, *Thinking and Decision Making*, Columbia University

MENTORING

- 2018 Guy Davidson (Princeton Neuroscience Institute summer internship)
- 2017 – 2018 Julie Newman (Princeton undergraduate senior thesis)
- 2015 – 2017 Jennifer Bu (Princeton undergraduate senior thesis)
- 2015 David Wang (Princeton summer internship)

OUTREACH

2018 – present Social Science and Humanities Chair, Princeton Prison Teaching Initiative

PREVIOUS RESEARCH POSITIONS

2011 – 2014 Lab manager
Adviser: Yael Niv, Princeton Neuroscience Institute

2010 – 2011 Undergraduate researcher, Columbia University
Adviser: Jacqueline Gottlieb

2009 Summer intern, Columbia University
Adviser: Elke Weber