

Kevin G. O'Neill

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Education	Duke University <i>PhD</i> , Cognitive Neuroscience Imagination and Modal Cognition Laboratory — Dr. Felipe De Brigard Pearson Laboratory — Dr. John Pearson	Fall 2018 - Present GPA: 3.95
	Rensselaer Polytechnic Institute <i>Bachelor of Science</i> , Cognitive Science and Computer Science	Class of 2017 GPA: 3.97
Experience	Computer Scientist ARCADIA Project — Paul Bello U.S. Naval Research Laboratory	Summer 2017 - Present
	Undergraduate Researcher Rensselaer Artificial Intelligence and Reasoning (RAIR) Laboratory — Dr. Selmer Bringsjord	Spring 2015 - Spring 2017
	Federal Work Study Rensselaer Cognitive Science Department	Fall 2014 - Spring 2017
Journal Papers	O'Neill, K. , Smith, A. P., Smilek, D., & Seli, P. (Under review). Dissociating the Freely-Moving Thought Dimension of Mind-Wandering from the Intentionality and Task-Unrelated Thought Dimensions. <i>Psychological Research</i> .	
	Seli, P., O'Neill, K. , Carriere, J. S. A., Smilek, D., Beaty, R., & Schacter, D. (Under review). Mind-Wandering Across the Age Gap: Age-Related Differences in Mind-Wandering are Partially Attributable to Age-Related Differences in Motivation. <i>Psychology and Aging</i> .	
	O'Neill, K. , & De Brigard, F. (2019). Two challenges for a dual system approach to temporal cognition [Commentary on "Thinking in and about Time: A Dual Systems Perspective on Temporal Cognition" by Hoerl, C. and McCormack, T.]. <i>Brain and Behavioral Sciences</i> .	
	Govindarajulu, N. S., Bringsjord, S., Sen, A., Paquin, J. C., & O'Neill, K. (2018). Ethical operating systems. <i>Reflections on Programming Systems</i> .	
	Bringsjord, S., & O'Neill, K. (In Press). Third-millennium computational logic. <i>Minds and Machines</i> .	
Conference Papers	Yin, S., O'Neill, K. , Brady, T., & De Brigard, F. (2019). The Effect of Category Learning on Recognition Memory: A Signal Detection Theory Analysis. In <i>Proceedings of the 41st Annual Meeting of the Cognitive Science Society</i> .	

Bello, P., **O'Neill, K.**, & Bridewell, W. (2019). Artificial Agency Requires Attention: The Case of Intentional Action. In *AAAI Spring Symposium: Towards Conscious AI Systems*.

O'Neill, K., Bridewell, W., & Bello, P. (2018). Time-Based Resource Sharing in ARCADIA. In *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*.

Bello, P., Lovett, A., Briggs, G., & **O'Neill, K.** (2018). An Attention-Driven Model of Human Causal Reasoning. In *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*.

Presentations

Smith, A., **O'Neill, K.**, Smilek, D., Seli, P. (2019) "On the Utility of the Dynamic Framework of Mind Wandering". *Psychonomics*.

Yin, S., **O'Neill, K.**, Brady, T., De Brigard, F. (2019) "The Effect of Category Learning on Recognition Memory: A Signal Detection Theory Analysis". *41st Annual Meeting of the Cognitive Science Society*.

Bello, P., **O'Neill, K.**, Bridewell, W. (2019). "Artificial Agency Requires Attention: The Case of Intentional Action". In *AAAI Spring Symposium: Towards Conscious AI Systems*.

Lovett, A., Briggs, G., **O'Neill, K.**, Bello, P. (2018). "Strategic Deployment of Attention in Online Causal Judgment: A Computational Model". *Journal of Vision*, 18(10), 741-741.

O'Neill, K., Bridewell, W., Bello, P. (2018) "Time-Based Resource Sharing in ARCADIA". *40th Annual Meeting of the Cognitive Science Society*.

Bello, P., Lovett, A., Briggs, G., **O'Neill, K.** (2018) "An Attention-Driven Model of Human Causal Reasoning". *40th Annual Meeting of the Cognitive Science Society*.

O'Neill, K., Bringsjord, S. "Solving the Lottery Paradox in a Cognitive Calculus". (2016) *International Association for Computing and Philosophy*.

Awards/ Honors

NSF GRFP Honorable Mention	Spring 2019
Duke Chancellors Scholars Fellowship	Fall 2018
Rensselaer Leadership Award	Fall 2014 - Spring 2017
Mona & Edward Zander '68 Scholarship	Fall 2014 - Spring 2017
Dean's List/Dean's Honor List	Fall 2014 - Spring 2017

Projects

SpikingNeuralNets.jl

A flexible system for simulating arbitrary systems of spiking neural networks.

ARCADIA

A computational framework for attention-centered cognitive modeling.

MetaProver

A framework for automated logical and meta-logical reasoning via analytic tableaux

OSCAR

A restoration of John Pollock's nonmonotonic natural deduction theorem prover

Skills

- Python, R, C/C++, Java/Javascript, Clojure/Scheme/Lisp, Julia, MATLAB, HTML/CSS, Prolog, Unix, Git
- Software development, verification, and visualization
- Mixed-effect modeling and Bayesian statistics
- Artificial Intelligence (Cognitive modeling, ML, Symbolic AI, NLP)
- Parallel/High-Performance Computing