

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
	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., & De Brigard, F. (2019). Two challenges for a dual system approach to temporal cognition. <i>Commentary in 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 for 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 <i>AAAI Spring Symposium: Towards Conscious AI Systems</i> .	
	O'Neill, K., Bridewell, W., & Bello, P. (2018). Time-based resource sharing in arcadia. In <i>Proceedings of the 40th Annual Meeting of the Cognitive Science Society</i> .	
	Bello, P., Lovett, A., Briggs, G., & O'Neill, K. (2018). An attention-driven model of human causal reasoning. In <i>Proceedings of the 40th Annual Meeting of the Cognitive Science Society</i> .	

Presentations	Smith, A., O'Neill, K. , Smilek, D., Seli, P. (2019) "On the utility of the Dynamic Framework of mind wandering". <i>Psychonomics</i> .	
	Yin, S., O'Neill, K. , Brady, T., De Brigard, F. (2019) "The Effect for Category Learning on Recognition Memory: A Signal Detection Theory Analysis". <i>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 <i>AAAI Spring Symposium: Towards Conscious AI Systems</i> .	
	Lovett, A., Briggs, G., O'Neill, K. , Bello, P. (2018). "Strategic Deployment of Attention in Online Causal Judgment: A Computational Model". <i>Journal of Vision</i> , 18(10), 741-741.	
	O'Neill, K. , Bridewell, W., Bello, P. (2018) "Time-Based Resource Sharing in AR-CADIA". <i>40th Annual Meeting of the Cognitive Science Society</i> .	
	Bello, P., Lovett, A., Briggs, G., O'Neill, K. (2018) "An Attention-Driven Model of Human Causal Reasoning". <i>40th Annual Meeting of the Cognitive Science Society</i> .	
Projects	O'Neill, K. , Bringsjord, S. "Solving the Lottery Paradox in a Cognitive Calculus". (2016) <i>International Association for Computing and Philosophy</i> .	
	SpikingNeuralNets.jl	
	A flexible system for simulating arbitrary systems of spiking neural networks.	
	ARCADIA	
	A computational framework for attention-centered cognitive modeling.	
	MetaProver	
Awards/ Honors	A framework for automated logical and meta-logical reasoning via analytic tableaux	
	OSCAR	
	A restoration of John Pollock's nonmonotonic natural deduction theorem prover	
	NSF GRFP Honorable Mention	Spring 2019
	Chancellors Scholars Fellowship	Fall 2018
	Rensselaer Leadership Award	Fall 2014 - Spring 2017
Skills	Mona & Edward Zander '68 Scholarship	Fall 2014 - Spring 2017
	Dean's List/Dean's Honor List	Fall 2014 - Spring 2017
	<ul style="list-style-type: none"> – Python, R, C/C++, Java, Clojure/Lisp, Julia, Javascript, 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 	