Ionatan J. Kuperwajs   Curriculum Vitae

Contact Information	Ph.D. Candidate New York University Center for Neural Science	ikuperwajs@nyu.edu ionatankuperwajs.github.io

Education

New York University, New York, NY	2018-Present

Ph.D. Candidate in Neural Science
Systems, Cognition, and Computation Track
Advisor: Wei Ji Ma

Macalester College, St. Paul, MN	2014-2018

B.A. in Neuroscience, Computer Science, and Mathematics
Honors in Mathematics, Magna Cum Laude
Advisor: Andrew Beveridge

IBRO-Simons Computational Neuroscience, Cape Town, South Africa   2018

Publications

B van Opheusden, **I Kuperwajs**, G Galbiati, Z Bnaya, Y Li, and WJ Ma (in press). Expertise increases planning depth in human gameplay. *Nature*. pdf

In Prep

I Kuperwajs, MK Ho, and WJ Ma. Optimal value-guided simulation as Bayesian inference.

I Kuperwajs, HH Schütt, and WJ Ma. Using deep neural networks as a guide for modeling human planning.

Conference Proceedings

I Kuperwajs, HH Schütt, and WJ Ma (2022). Improving a model of human planning via large-scale data and deep neural networks. *Proceedings of the 44th Annual Meeting of the Cognitive Science Society*. pdf

I Kuperwajs and WJ Ma (2022). A joint analysis of dropout and learning functions in human decision-making with massive online data. *Proceedings of the 44th Annual Meeting of the Cognitive Science Society*. pdf

I Kuperwajs and WJ Ma (2021). Planning to plan: a Bayesian model for optimizing the depth of decision tree search. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*. pdf

I Kuperwajs, B van Opheusden, and WJ Ma (2019). Prospective planning and retrospective learning in a large-scale combinatorial game. *Cognitive Computational Neuroscience*. pdf

Awards and Fellowships

NSF Graduate Research Fellowship	2020-2023
CCN Trainee Travel Grant	2019
Henry Mitchell McCracken Fellowship	2018
Phi Beta Kappa National Honor Society	2018
Macalester College Neuroscience Outstanding Graduate	2018
Macalester College Dean's List	2014-2018
Cosyne Undergraduate Travel Grant	2018

	Janelia Undergraduate Scholars Program	2017
	MIAC Men's Soccer Academic All-Conference Team	2015-2017
	NYU Center for Neural Science NSF REU Fellowship	2016
	Macalester College DeWitt Wallace Distinguished Scholar	2014

Invited Talks		
	Cognitive Science Society, Toronto, Canada (2 talks)	2022
	Cognitive Science Society, University of Vienna	2021
	Center for Neural Science Seminar Series, New York University	2020
	Concepts and Categories Seminar Series, New York University	2019
	Artificial and Biological Computation Lab, New York University	2019
	Sensorimotor Learning Group, Columbia University	2019

Poster Presentations		
	Reinforcement Learning and Decision Making, Brown University (3 posters)	2022
	Workshop on Big Data in Cognitive Science, Princeton University	2019
	Cognitive Computational Neuroscience, Technical University of Berlin	2019

Teaching

New York University, Teaching Assistant
NEURL-GA 2201: Mathematical Tools for Neural and Cognitive Science — F 19

Macalester College, Teaching Assistant
COMP 221: Algorithm Design and Analysis — F 17, S 18
PSYC 180: Brain, Mind, and Behavior — F 16
COMP 123: Core Concepts in Computer Science — S 16, F 16

Professional Activities

Ad Hoc Reviewing
Cognitive Computational Neuroscience
Cognitive Science Society

Science Activism
President, Scientist Action and Advocacy Network (ScAAN)		2018-2023
Workshop on Environmental Justice, Ocean Sciences Meeting		2022
Workshop on Evidence-Based Advocacy, American Geophysical Union		2021
Workshop on Science Activism, Science and Education Policy Association		2021
Panel on Science Activism, Growing Up in Science		2020