Ionatan J. Kuperwajs — Curriculum Vitae

Contact Information

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Education

Ph.D. Candidate in Neural Science 2018-Present
New York University (New York, NY)
Systems, Cognition, and Computation Track
Advisor: Wei Ji Ma

B.A. in Neuroscience, Computer Science, & Mathematics 2014-2018
Macalester College (St. Paul, MN)
Honors in Mathematics, Magna Cum Laude
Advisor: Andrew Beveridge

Publications

Preprints

- van Opheusden, B., Galbiati, G., **Kuperwajs, I.**, Bnaya, Z., Li, Y., & Ma, W.J. (2021). Revealing the impact of expertise on human planning with a two-player board game. *PsyArXiv*. pdf

Conference Proceedings

- **Kuperwajs, I.**, Schütt, H.H. & Ma, W.J. (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
- **Kuperwajs, I.** & Ma, W.J. (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
- **Kuperwajs, I.** & Ma, W.J. (2022). Understanding human decision-making in a complex planning task with large-scale behavioral data. *The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making.*
- **Kuperwajs, I.** & Ma, W.J. (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
- **Kuperwajs, I.**, van Opheusden, B., & Ma, W.J. (2019). Prospective planning and retrospective learning in a large-scale combinatorial game. *Cognitive Computational Neuroscience.* pdf

*Also published at *The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making* (2022)

Honors & Awards

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
Cosyne Undergraduate Travel Grant	2018
IBRO-Simons Computational Neuroscience Imbizo	2018
Macalester College Dean's List	2014-2018
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

Teaching Experience

Teaching Assistant, New York University

- Mathematical Tools for Neural and Cognitive Science (NEURL-GA 2201) — F 19

Teaching Assistant, Macalester College

- Algorithm Design and Analysis (COMP 221) — F 17, S 18
- Brain, Mind, and Behavior (PSYC 180) — F 16
- Core Concepts in Computer Science (COMP 123) — S 16, F 16

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

Service & Outreach

Ad Hoc Reviewing

- Cognitive Science Society

Science Activism

- President, Scientist Action and Advocacy Network (ScAAN) — 2018-Present
- 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

Skills & Other

Programming: Python, MATLAB, HTML/CSS, bash
Graduate Coursework: mathematical tools for neuroscience, machine learning, Bayesian and cognitive modeling, cellular and systems neuroscience
Methodologies: behavioral modeling, reinforcement learning, statistical inference, deep learning
Languages: English, Spanish, Hebrew
Interests: photography, podcasting, travel, hiking, soccer, basketball, anime, coffee