# 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. (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

## Honors & Awards

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|---|---|
| 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**

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|---|---|
| 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**

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|---|---|
| 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