

Matan Mazor

Curriculum Vitae

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EDUCATION

2017 to 2021	Institute of Neurology, UCL PhD. Advisors: Prof. Stephen M. Fleming and Prof. Karl J. Friston. Thesis title: "Self-Modelling in Inference about Absence".
2019	Department of Brain and Cognitive Sciences, MIT A three month research visit to the labs of Prof. Laura Schulz and Prof. Josh Tenenbaum, studying intuitive models of psychophysics.
2013 to 2015	Sagol School of Neuroscience, Tel Aviv University MSc, <i>Summa Cum Laude</i> . Advisor: Prof. Roy Mukamel Thesis title: "The Internal Forward Model in the Human Brain: a Functional MRI Study". Cumulative GPA: 98.4/100 Final examination: 100/100 Thesis dissertation: 98/100
2011 to 2015	Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University Cumulative GPA: 92/100
2009 to 2011	Bezalel Academy for Art and Design, Jerusalem Visual Communication, Illustration major

HONORS & AWARDS

2019	Bogue Fellowship University College London
2017, 2018, 2019	Kenneth Lindsay Scholarship Anglo Israel Association
2018	Guarantors of Brain Travel Grant
2017 to 2020	Graduate Research Scholarship (GRS) Institute of Neurology, University College London
2017 to 2020	Overseas Research Scholarship (ORS) Institute of Neurology, University College London
2016	Travel Grant Sagol School of Neuroscience, Tel Aviv University
2015	Best Talk Award Sagol School of Neuroscience , Tel Aviv University
2013	Award for Exceptional Academic Achievements Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University

2011 to 2014

Full Excellence Scholarship

Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University

ACADEMIC & PROFESSIONAL EXPERIENCE

2020 to 2021

BSc Research supervisor

Fleming lab, University College London

Responsible for supervising two final-year psychology students on the research project "Consciousness and Dimensions of Moral Worth", and one student on her research project "Metacognitive Contributions to Search Termination".

2020

Journal club organizer and host

Institute of Neuroscience, University College London

Organizing and hosting a postgraduate journal club on the topic of "Self Models in Cognitive Neuroscience".

2019 to 2020

MSc research supervisor

Fleming lab, University College London

Responsible for supervising Chudi Gong's MSc research project on "computational approaches to metacognitive evaluation of inference about absence".

2018 to 2019

MSc research supervisor

Fleming lab, University College London

Responsible for supervising Roy Tal's MSc research project on "counterfactual heuristics in inference about absence". For this thesis, Roy has been awarded the 2019 Richard Frackowiak MSc Prize.

2016 to 2017

Research Staff

Roy Mukamel's lab, Tel Aviv University

Responsible for design, running and analysis of several different fMRI experiments; development and implementation of model-free tools for fMRI analysis; and preparation of manuscripts for publication.

2017

Lecturer: "Introduction to Bayesian Statistics" graduate course

Tel Aviv University

Responsible for designing course, delivering lectures, composing and grading theoretical and programming home-assignments and final exam.

2017

Lecturer: "Methods in MRI/fMRI" graduate course

Tel Aviv University

Responsible for designing course, delivering lectures, composing and grading theoretical and programming home-assignments.

2016

Teaching Assistant: "Introduction to Computational Neuroscience"

Tel Aviv University

Responsible for grading theoretical and programming home-assignments, instructing students in their final project and assisting them with data analysis and writing.

2016

Bayesian Statistics Workshop Instructor

Tel Aviv University

Designed and delivered a one-week intensive psychology and neuroscience graduate students' workshop (40 in-class hours total) on Bayesian statistics.

2014 to 2015

Educational Consultant

Ort educational network of schools and colleges

Developed a curriculum for Ort's new brain science program, including writing a chapter on image recognition. Devised in-class exercises, MATLAB tutorials, homework exercises, and teacher guide.

- 2012 to 2014 **Research Assistant**
Naama Friedmann's lab, Tel Aviv University
 Assisted in designing a functional MRI experiment studying grammatical processing.
- 2012 to 2014 **Research intern**
Linguistic infrastructure team, Ginger Software (Intel since 2014)
 Applied machine learning tools to resolve semantic ambiguities using large-scale data-sets.

PUBLICATIONS & PRESENTATIONS

- Mazor**, Demertzi, Fahrenfort, Faivre, Francken, Lamy, Moutoussis, Salomon, Soto, Stein & Lubianiker (submitted, [PsyArxiv](#))
The scientific study of consciousness cannot, and should not, be morally neutral
- Mazor**, Moran & Fleming ([Neuroscience of Consciousness](#), phase 1 Registered Report;
[Neuroscience of Consciousness](#), phase 2 Registered Report)
Metacognitive asymmetries in visual perception
- Mazor**, Siegel & Tenenbaum (submitted, [GitHub](#))
Internal models of visual search are rich, person-specific, and mostly accurate
- Mazor***, Dijkstra* & Fleming ([bioRxiv](#), 2021)
Dissociating the neural correlates of subjective visibility from those of decision confidence
- Dijkstra, **Mazor**, Kok & Fleming ([Cognition](#), 2021)
Mistaking imagination for reality: Congruent mental imagery leads to more liberal perceptual detection
- Mazor** & Fleming ([PsyArXiv](#), 2021)
Zero-shot search termination reveals a dissociation between implicit and explicit metacognitive knowledge
- Mazor** & Fleming ([Nature Human Behaviour](#), 2021)
The Dunning-Kruger effect revisited
- Mazor** ([PsyArXiv](#), 2021)
Inference about absence as a window into the mental self-model
- Mazor** & Fleming ([Philosophy and the Mind Sciences](#), 2020)
Distinguishing absence of awareness from awareness of absence
- Mazor**, Friston & Fleming ([eLife](#), 2020)
Distinct neural contributions to metacognition for detecting, but not discriminating visual stimuli
- Scotti, Kulkarni, **Mazor**, Klapwijk, Yarkoni & Huth ([Journal of Open Source Education](#), 2020)
EduCortex: browser-based 3D brain visualization of fMRI meta-analysis maps
- Mazor**, Mazor & Mukamel ([European Journal of Neuroscience](#), 2019)
A novel tool for time-locking study plans to results

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- Mazor**, Eberhardt, Risoli & Fleming (July, 2021)
Dimensions of moral worth
 The annual meeting of The Cognitive Science Society
- Mazor** (June, 2021)
Why do some scientists say they study consciousness
 The annual meeting of the Association for the Scientific Study of Consciousness
- Mazor**, Eberhardt, Risoli & Fleming (June, 2021)
Perceptual consciousness and moral worth are strongly coupled
 The annual meeting of the Association for the Scientific Study of Consciousness

Mazor & Fleming (October, 2020)
Metacognitive contributions to search termination
Neuromatch3

Mazor & Fleming (June, 2019)
Inference about absence
The annual meeting of the Association for the Scientific Study of Consciousness
Ontario, Canada

Mazor, Friston, Charles & Fleming (May, 2019)
Inference about absence: the special status of no responses.
Poster accepted for the annual meeting of the Visual Sciences Society
Florida, USA

Mazor, Mazor & Mukamel (June, 2018)
In-lab pre-registration: time-locking of study plans and hypotheses without preliminary review
Poster presented at the 24th annual meeting of the Organization for Human Brain Mapping
Singapore

Mazor, Fahrenfort & Fleming (June, 2018)
Failure to incorporate information about perceptual precision impairs metacognitive sensitivity in detection
Poster presented at the Annual meeting of the Association for the Scientific Study of Consciousness
Krakow, Poland

Mazor & Mukamel (February, 2017)
TWISTER: a temporal multivariate approach to behavioural and neuroimaging studies
Poster presented at 4th Conference on Cognition Research of the Israeli Society for Cognitive Psychology
Acre, Israel

Mazor & Mukamel (June, 2016)
Time-Course Consistency (TCC): an alternative to model-based approaches to fMRI analysis
Poster presented at the 22nd Annual Meeting of the Organization for Human Brain Mapping
Geneve, Switzerland

Mazor & Mukamel (June, 2016)
Time Course Consistency: A model-free approach to fMRI analysis
Poster presented at the 6th International Workshop on Pattern Recognition in Neuroimaging
Trento, Italy

RELATED VOLUNTEER WORK

2021	240 Project Drawing and painting with people who are affected by homelessness and exclusion.
2020 to 2021	Maccabi Healthcare Services Keeping virtual company to an older person who is living by himself in self-isolation.
2012 to 2016	Abarbanel Mental Health Center Worked in a closed psychiatric ward, primarily with patients coping with schizophrenia.
2014	Drawing instructor at Levinsky Garden Library Taught basics of drawing from observation to refugees from Eritrea and Sudan.
2013	Keshet - Association for the Elderly in Tel-Aviv-Yaffo Weekly friendly meetings with a cerebellar stroke patient
2007 to 2008	Melabev day-care for people with Dementia and Alzheimer's disease

SKILLS & INTERESTS

Programming	Python (scipy, pandas, scikit-learn, psychopy), R (dplyr, brms, rjags, RStan, Shiny, Pajaja), JavaScript (p5, jsPsych, jQuery, D3), MATLAB (Psychtoolbox, SPM, RSA), Git
OS	Linux, Windows
Languages	Hebrew (native language), English (proficient), Italian (independent user), Arabic (student)
Interests	cognitive sciences, statistical inference, philosophy of mind, moral philosophy, open science

SELECTED REVIEWS FROM MY ONLINE PARTICIPANTS

"This experiment was very enjoyable" (Prolific ID: 5f649be46e202219bc735) * "it was a solid experiment" (Prolific ID: 5d62886927a84f00010fbbb4) * "I enjoyed the game very much" (Prolific ID: 5f78433aef37d001ace1f086) * "Very well explained and set up." (Prolific ID: 5ea1c935df1e160ae8532b18) * found it incredibly easy" (Prolific ID: 5e459f61418f610891628564) * "All is good - simple, easy to understand and enjoyable too." (Prolific ID: 5ae1c385b0d05100015d0978) * "interesting experiment, which could be expanded in complexity through use of different shapes and colours." (Prolific ID: 5f3bd56999a44d9324b76ddb)