

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 “SELF-MODELLING IN INFERENCE ABOUT ABSENCE”
2019	Department of Brain and Cognitive Sciences, MIT A four-month research visit to the labs of Prof. Laura Schulz and Prof. Josh Tenenbaum, studying intuitive models of psychophysics.
2014 to 2016	Sagol School of Neuroscience, Tel Aviv University MSc, <i>Summa Cum Laude</i> . Advisor: Prof. Roy Mukamel “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

2022	Research Innovation Grant (£4,832) The Development and Stability of Metacognitive Knowledge Birkbeck, University of London
2019	Bogue Fellowship (£6,624) Inference about Absence University College London
2017, 2018, 2019	Kenneth Lindsay Scholarship (£3,000) Anglo Israel Association
2018	Guarantors of Brain Travel Grant (£1,000)
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

2023 –	Postdoctoral research fellow (PDRF) <i>All Souls College, Department of Experimental Psychology, University of Oxford</i>
2022 to present	Postdoctoral researcher <i>Action and Perception lab, Birkbeck, University of London</i>
2016 to 2017	Research staff <i>Roy Mukamel's lab, Tel Aviv University</i>
2012 to 2014	Research assistant <i>Naama Friedmann's lab, Tel Aviv University</i>
2012 to 2014	Research intern <i>Linguistic infrastructure team, Ginger Software (Intel since 2014)</i>

TEACHING EXPERIENCE

2020 to 2021	BSc research supervisor <i>Fleming lab, University College London</i> Supervised two final-year psychology students.
2019 to 2020	MSc research supervisor <i>Fleming lab, University College London</i> Supervised Chudi Gong's MSc research project.
2018 to 2019	MSc research supervisor <i>Fleming lab, University College London</i> Supervised Roy Tal's MSc research project, for which has been awarded the 2019 Richard Frackowiak MSc Prize.
2017	Lecturer: “Introduction to Bayesian Statistics” graduate course <i>Tel Aviv University</i>
2017	Lecturer: “Methods in MRI/fMRI” graduate course <i>Tel Aviv University</i>
2016	Teaching assistant: “Introduction to Computational Neuroscience” <i>Tel Aviv University</i>
2016	Bayesian Statistics workshop instructor <i>Tel Aviv University</i>
2014 to 2015	Educational consultant <i>Ort educational network of schools and colleges</i>

SERVICE

- 2022 **Tutorial host**
The annual meeting of The Association for the Scientific Study of Consciousness
Amsterdam, the Netherlands
Co-hosted a tutorial about “the ethics of animal consciousness”, together with Timo Stein.
- 2021 **Programme committee member**
NeurIPS 2021
“Metacognition in the age of AI” workshop
- 2020 **Journal club organizer and host**
Institute of Neuroscience, University College London
- Ad hoc reviewer**
Cognition, eLife, Cognitive Science. Attention, Perception and Psychophysics, Philosophical Psychology, Developmental Psychology, Philosophy and the Mind Sciences, Nature Human Behaviour, Journal of Experimental Psychology: General.

PUBLICATIONS & PRESENTATIONS

- Mazor**, Charles, Maimon & Fleming (*Attention, Perception, & Psychophysics*, in press)
Paradoxical evidence weighting in confidence judgments for detection and discrimination
- Mazor**, Gong & Fleming (*Royal Society Open Science*, in press)
Re-evaluating frontopolar and temporoparietal contributions to detection and discrimination confidence
- Mazor** (*PsyArXiv*, under review)
Inference about absence as a window into the mental self-model
- Mazor**, Siegel & Tenenbaum (*Journal of Experimental Psychology: General*, in press)
Prospective search time estimates reveal the strengths and limits of internal models of visual search
- Mazor**, Brown, Ciaunica, Demertzi, Fahrenfort, Faivre, Francken, Lamy, Leggenhager, Moutoussis, Nizzi, Salomon, Soto, Stein & Lubianiker (*Perspectives on Psychological Science*, 2022)
The scientific study of consciousness cannot, and should not, be morally neutral
- Mazor***, Dijkstra* & Fleming (*Journal of Neuroscience*, 2022)
Dissociating the neural correlates of subjective visibility from those of decision confidence
- Mazor** & Fleming (*Journal of Experimental Psychology: General*, 2022)
Efficient search termination without task experience
- Mazor**, Moran & Fleming (*Neuroscience of Consciousness*, phase 1 Registered Report; 2021
Neuroscience of Consciousness, phase 2 Registered Report; 2021)
Metacognitive asymmetries in visual perception
- Dijkstra, **Mazor**, Kok & Fleming (*Cognition*, 2021)
Mistaking imagination for reality: Congruent mental imagery leads to more liberal perceptual detection
- Mazor** & Fleming (*Nature Human Behaviour*, 2021)
The Dunning-Kruger effect revisited
- 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

Mazor, Firestone & Phillips (July, 2022; talk)

Using pretense behavior to explore counterfactual self-simulation

The annual meeting of The Cognitive Science Society

Toronto, Canada

Mazor (June, 2022; invited symposium talk)

Simulating counterfactual cognitive states

The annual meeting of The Society for Philosophy and Psychology

Milan, Italy

Mazor, Goetz & Press (June, 2022; poster)

Loss-gain asymmetries in perceptual decisions

The annual meeting of The Association for the Scientific Study of Consciousness

Amsterdam, the Netherlands

Mazor, Goldreich & Press (June, 2022; poster)

Presence-absence asymmetries in predictive perception

The annual meeting of The Association for the Scientific Study of Consciousness

Amsterdam, the Netherlands

Mazor*, Yaron*, Faivre & Mudrik (June, 2022; poster)

Telling between strong and weak null results using non-directional tests

The annual meeting of The Association for the Scientific Study of Consciousness

Amsterdam, the Netherlands

Mazor, Phillips & Firestone (June, 2022; poster)

Pretending not to see: Pretense behavior reveals the limits of self-simulation

The annual meeting of the Visual Sciences Society

Mazor, Eberhardt, Risoli & Fleming (July, 2021; talk)

Dimensions of moral worth

The annual meeting of The Cognitive Science Society

Mazor (June, 2021; talk)

Why do some scientists say they study consciousness

The annual meeting of the Association for the Scientific Study of Consciousness

Mazor (June, 2021; talk)

Zero-shot search termination reveals a dissociation between implicit and explicit metacognitive knowledge

The annual meeting of the Association for the Scientific Study of Consciousness

Mazor, Eberhardt, Risoli & Fleming (June, 2021; talk)

Perceptual consciousness and moral worth are strongly coupled

The annual meeting of the Association for the Scientific Study of Consciousness

Mazor & Fleming (October, 2020; talk)

Metacognitive contributions to search termination

Neuromatch3

Mazor & Fleming (June, 2019; talk)

Inference about absence

The annual meeting of the Association for the Scientific Study of Consciousness

Ontario, Canada

Mazor, Friston, Charles & Fleming (May, 2019; poster)

Inference about absence: the special status of no responses.

The annual meeting of the Visual Sciences Society

Florida, USA

Mazor, Mazor & Mukamel (June, 2018; poster)

In-lab pre-registration: time-locking of study plans and hypotheses without preliminary review

The annual meeting of the Organization for Human Brain Mapping

Singapore

Mazor, Fahrenfort & Fleming (June, 2018; poster)

Failure to incorporate information about perceptual precision impairs metacognitive sensitivity in detection

The annual meeting of the Association for the Scientific Study of Consciousness

Krakow, Poland

Mazor & Mukamel (February, 2017; poster)

TWISTER: a temporal multivariate approach to behavioural and neuroimaging studies

The annual meeting of the Israeli Society for Cognitive Psychology

Acre, Israel

Mazor & Mukamel (June, 2016; poster)

Time-Course Consistency (TCC): an alternative to model-based approaches to fMRI analysis

The annual meeting of the Organization for Human Brain Mapping

Geneve, Switzerland

Mazor & Mukamel (June, 2016; poster)

Time Course Consistency: A model-free approach to fMRI analysis

The international workshop on Pattern Recognition in Neuroimaging

Trento, Italy

RELATED VOLUNTEER WORK

2022 to present

The Under-Represented Student Mentorship (URSM) scheme

Mentoring students in their PhD applications.

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, Papaja), JavaScript (p5, jsPsych, jQuery, D3), MATLAB (Psychtoolbox, SPM, RSA), Git
OS	Linux, Windows
Languages	Hebrew (native), English (full professional proficiency), Italian (limited working proficiency), Arabic (elementary proficiency)
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: 5d62886927a84f00010fb4) * “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) * ” “This was actually one of the more enjoyable experiments I’ve taken part of on Prolific.” (Prolific ID: 5fb18ebed0a22f688e3377b8) * “This experiment was very enjoyable” (Prolific ID: 5f649be46e202219bc735) * “An interesting and unique approach to a survey. Enjoyed it.” (Prolific ID: 5fd0ed3ee993330172b0b97a) * “This was actually one of the more enjoyable experiments I’ve taken part of on Prolific.” (Prolific ID: 5fb18ebed0a22f688e3377b8) * “This was the most fun online research game I’ve ever played. Kudos!” (Prolific ID: 62a779f845a7840040d41bf8) * “it was testing reaction time I guess” (Prolific ID: 5ee0edcb962eba464f486b40) * “I thought this was fun and got me thinking about things.” (Prolific ID: 5f7a28b8bedcf2112ebd1289) * “Jesus loves you!” (Prolific ID: 5a135875074b1900012527a9)