Matan Mazor

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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"

2014 to 2016 — **Sagol School of Neuroscience, Tel Aviv University**
MSc, ***Summa Cum Laude***. 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

Academic & Professional Experience

2023 to present — **Postdoctoral research fellow (PDRF)**
All Souls College,
Department of Experimental Psychology, University of Oxford

2022 to 2023 — **Postdoctoral researcher**
Action and Perception lab, Birkbeck, University of London

2016 to 2017 — **Research staff**
Roy Mukamel's lab, Tel Aviv University

2012 to 2014 — **Research assistant**
Naama Friedmann's lab, Tel Aviv University

2012 to 2014 — **Research intern**
Linguistic infrastructure team, Ginger Software (Intel since 2014)

Honors, Grants & Awards

2025 — **BA/Leverhulme Small Research Grants (£9,009)**
Model-based self-simulation in memory reconstruction (behaviour)

2024 — **John Fell OUP Research Grant (£40,455)**
Model-based self-simulation in memory reconstruction (neuroimaging)
University of Oxford

2022 — **Research Innovation Grant (£4,832)**
The Development and Stability of Metacognitive Knowledge
Birkbeck, University of London

2019	**Bogue Fellowship (£6,624)** **A research visit to MIT CBS** 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 2015	**Full Excellence Scholarship** Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University

Teaching and Mentoring Experience

2024 to present	**Secondary DPhil supervisor** *Department of Experimental Psychology, University of Oxford* Co-supervising Carla Zoe Cremer's PhD, together with Prof. Christopher Summerfield and Prof. Asifa Majid.
2023 to present	**MSc research supervisor** *Department of Experimental Psychology, University of Oxford* Supervised Nicole George's MSc research project, and Maya Schipper's MSc research project, for which she has been awarded the 2024 George Humphrey Prize.
2020 to 2021	**BSc research supervisor** *Fleming lab, University College London* Supervised two final-year psychology students.
2018 to 2020	**MSc research supervisor** *Fleming lab, University College London* Supervised Chudi Gong's MSc research project, and Roy Tal's MSc research project, for which has been awarded the 2019 Richard Frackowiak MSc Prize.
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2017	**Lecturer: *"Introduction to Bayesian Statistics"* graduate course** *Tel Aviv University*
2017	**Lecturer: *"Methods in MRI/fMRI"* graduate course** *Tel Aviv University*
2016	**Teaching assistant:** ***"Introduction to Computational Neuroscience"*** *Tel Aviv University*
2016	**Bayesian Statistics workshop instructor**

Tel Aviv University

2014 to 2015 **Educational consultant**
Ort educational network of schools and colleges

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
Journals: *Neuroscience and Behavioural Reviews*, *Cognition*, *eLife*, *PNAS*, *Scientific Reports*, *Nature Human Behaviour*, *Cognitive Science*, *Attention, Perception and Psychophysics*, *Philosophical Psychology*, *Developmental Psychology*, *Philosophy and the Mind Sciences*, *Cortex*, *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Human Perception and Performance*, *Cerebral Cortex*, *BMC Psychology*; *Quarterly Journal of Experimental Psychology*; **Conferences:**: *CogSci*; **Books:** *Cambridge University Press*; **Grants:** *Wellcome Trust (Expert Reviewer).*

Publications

Barnett, **Mazor**, Cabbai & Dijkstra (*PsyArxiv*)
Vivid imagery is reported faster than weak imagery

Sarna, Dar & **Mazor** (*PsyArxiv*)
Biased and inattentive responding drive apparent metacognitive biases in mental health

Mazor, Firestone & Phillips (*PsyArxiv*, in revision)
Pretending not to know reveals a capacity for model-based self-simulation

Schipper & **Mazor** (*Proceedings of the Annual Meeting of the Cognitive Science Society*, 2025)
Confidence in absence as confidence in counterfactual visibility

Mazor (*Open Mind*, 2025)
Inference about absence as a window into the mental self-model

Yaron, Faivre, Mudrik & **Mazor** (*Psychological Bulletin & Review*, 2025)
Individual differences do not mask effects of unconscious processing

Mazor, Moran & Press (*Psychological Review*, 2025)
Beliefs about perception shape perceptual inference: an ideal observer model of detection

Michel, Gao, **Mazor**, Kletenik, & Rahnev (*Trends in Cognitive Sciences*, 2024)
When visual metacognition fails: Widespread anosognosia for visual deficits

Mazor & Mukamel (*Entropy*, 2024)
A randomization-based, model-free approach to functional neuroimaging: a proof of concept

Sarna, **Mazor** & Dar (*Clinical Psychological Science*, 2024)

Obsessive Compulsive visual search: a reexamination of presence-absence asymmetries

Dijkstra, **Mazor** & Fleming (*Journal of Vision*, 2024)
Confidence ratings do not distinguish imagination from reality

Mazor, Moran & Press (*Proceedings of the Annual Meeting of the Cognitive Science Society*, 2024)
The Role of Counterfactual Visibility in Inference about Absence

Mazor, Charles, Maimon & Fleming (*Attention, Perception, & Psychophysics*, 2023)
Paradoxical evidence weighting in confidence judgments for detection and discrimination

Mazor, Gong & Fleming (*Royal Society Open Science*, 2023)
Re-evaluating frontopolar and temporoparietal contributions to detection and discrimination confidence

Mazor, Siegel & Tenenbaum (*Journal of Experimental Psychology: General*, 2023)
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

Dijsktra, **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

Related Volunteer Work

2025 to present	**Tandem: Mental Health Befriending for Oxford** Befriender
2022 to 2024	**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 science, statistical inference, philosophy of mind, moral philosophy, open science

Selected Reviews From My Online Participants

5f649be46ebea202219bc735	"This experiment was very enjoyable"
5c2fcd716ea6880001dc8e3d	"I LOVED THIS SO MUCH, IT WAS SO FUN!"
5d60b5beea1c1c0001c98bf6	"I thought that it was interesting because of the different ways the tasks were set up."
5c40bb8880392f00015e8910	"I love these type of games and thank you for allowing me to participate.Have a splentacular day."
62a779f845a7840040d41bf8	"This was the most fun online research game I've ever played. Kudos!"
5dbb9407e0a6e81863526af7	"I think this type of game is great, because of the mental agility to which you are subjected, but I think the survey is very well structured."
60a55d4bb6bd9be6c95b89eb	"This was one of the most entertaining and interesting studies I've done while on Prolific, and I've done a lot! Thanks for that break, it was very interesting!"
5ee0edcb962eba464f486b40	"it was testing reaction time I guess"
5decc61a488cde39be161a91	"I play a lot of video games."
5d62886927a84f00010fbbb4	"it was a solid experiment"
5f78433aef37d001ace1f086	"I enjoyed the game very much"
5ea4a9cac3872a06b560229f	"very unusual, but fun"
5e459f61418f610891628564	"found it incredibly easy"
5ea1c935df1e160ae8532b18	"Very well explained and set up."