

Matan Mazor

Curriculum Vitae

+44-7534 906879 | twitter: @mazormatan | m.mazor.17@ucl.ac.uk

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

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

- 2022 to present **Postdoctoral researcher**
Action and Perception lab, Birkbeck, University of London
- 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, Siegel & Tenenbaum ([GitHub](#), under review)

Internal models of visual search are rich, person-specific, and mostly accurate

Mazor, Brown, Ciaunica, Demertzi, Fahrenfort, Faivre, Francken, Lamy, Leggenhager, Moutoussis, Nizzi, Salomon, Soto, Stein & Lubianiker ([Perspectives on Psychological Science](#), in press)

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;
[Neuroscience of Consciousness](#), phase 2 Registered Report)

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 ([PsyArXiv](#), under review)

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

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 & Stein (June, 2022; tutorial)
The ethics of animal consciousness
The annual meeting of The Association for the Scientific Study of Consciousness
Amsterdam, the Netherlands

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	The Under-Represented Student Mentorship (URSM) scheme Mentoring students in their applications for neuroscience PhD. programmes.
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 language), English (proficient), Italian (intependent user), Arabic (student)
Interests	cognitive sciences, statistical inference, philosophy of mind, moral philosophy, open science

SELECTED REVIEWS FROM MY ONLINE PARTICIPANTS

5f649be46bea202219bc735	"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."
5dde8fba82f458000c8c7c75	"This was interesting. Oddly more difficult than expected. Everything worked great, though. Hope I helped. Good luck with your research!"
58f3760092ac81000154f8af	"Questions were clear and concise. Survey UI worked perfectly. Really fun study."
5f7a28b8bedcf2112ebd1289	"I thought this was fun and got me thinking about things."
5d4a41890e604c00011ade8b	"I liked this experiment a lot. It was fun and interesting. Thanks and I wish you luck in your research!"
5a135875074b1900012527a9	"Jesus loves you!"
62b347618b52904682bf1ca7	"This is a cool experiment! Wasn't what I expected when I accepted it, but I don't mind."
5df4ed2eae7b303760a9d47c	"This was so much fun. Thanks."