

# Matan Mazor

## Curriculum Vitae

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### EDUCATION

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2017 to 2021	<b>Institute of Neurology, UCL</b> PhD. Advisors: Prof. Stephen M. Fleming and Prof. Karl J. Friston “SELF-MODELLING IN INFERENCE ABOUT ABSENCE”
2019	<b>Department of Brain and Cognitive Sciences, MIT</b> A four-month research visit to the labs of Prof. Laura Schulz and Prof. Josh Tenenbaum, studying intuitive models of psychophysics.
2014 to 2016	<b>Sagol School of Neuroscience, Tel Aviv University</b> 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	<b>Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University</b> Cumulative GPA: 92/100
2009 to 2011	<b>Bezalel Academy for Art and Design, Jerusalem</b> Visual Communication, Illustration major

### HONORS & AWARDS

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2022	<b>Research Innovation Grant (£4,832)</b> <b>The Development and Stability of Metacognitive Knowledge</b> Birkbeck, University of London
2019	<b>Bogue Fellowship (£6,624)</b> <b>Inference about Absence</b> University College London
2017, 2018, 2019	<b>Kenneth Lindsay Scholarship (£3,000)</b> Anglo Israel Association
2018	<b>Guarantors of Brain Travel Grant (£1,000)</b>
2017 to 2020	<b>Graduate Research Scholarship (GRS)</b> Institute of Neurology, University College London
2017 to 2020	<b>Overseas Research Scholarship (ORS)</b> Institute of Neurology, University College London
2016	<b>Travel Grant</b> Sagol School of Neuroscience, Tel Aviv University

2015	<b>Best Talk Award</b> Sagol School of Neuroscience , Tel Aviv University
2013	<b>Award for Exceptional Academic Achievements</b> Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University
2011 to 2014	<b>Full Excellence Scholarship</b> Adi Lautman Interdisciplinary Program for Outstanding Students, Tel Aviv University

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## ACADEMIC & PROFESSIONAL EXPERIENCE

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2022 to present	<b>Postdoctoral researcher</b> <i>Action and Perception lab, Birkbeck, University of London</i>
2016 to 2017	<b>Research staff</b> <i>Roy Mukamel's lab, Tel Aviv University</i>
2012 to 2014	<b>Research assistant</b> <i>Naama Friedmann's lab, Tel Aviv University</i>
2012 to 2014	<b>Research intern</b> <i>Linguistic infrastructure team, Ginger Software (Intel since 2014)</i>

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## TEACHING EXPERIENCE

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

## SERVICE

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- 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, Proceedings of the National Academy of Sciences (PNAS).*

## PUBLICATIONS & PRESENTATIONS

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- Mazor**, Gong & Fleming ([bioRxiv](#), under review)  
*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)  
*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](#), 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)

**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

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## RELATED VOLUNTEER WORK

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2022	<b>The Under-Represented Student Mentorship (URSM) scheme</b> Mentoring students in their PhD applications.
2021	<b>240 Project</b> Drawing and painting with people who are affected by homelessness and exclusion.
2020 to 2021	<b>Maccabi Healthcare Services</b> Keeping virtual company to an older person who is living by himself in self-isolation.
2012 to 2016	<b>Abarbanel Mental Health Center</b> Worked in a closed psychiatric ward, primarily with patients coping with schizophrenia.
2014	<b>Drawing instructor at Levinsky Garden Library</b> Taught basics of drawing from observation to refugees from Eritrea and Sudan.
2013	<b>Keshet - Association for the Elderly in Tel-Aviv-Yaffo</b> Weekly friendly meetings with a cerebellar stroke patient
2007 to 2008	<b>Melabev day-care for people with Dementia and Alzheimer's disease</b>

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## SKILLS & INTERESTS

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Programming	<b>Python</b> (scipy, pandas, scikit-learn, psychopy), <b>R</b> (dplyr, brms, rjags, RStan, Shiny, PapaJa), <b>JavaScript</b> (p5, jsPsych, jQuery, D3), <b>MATLAB</b> (Psychtoolbox, SPM, RSA), <b>Git</b>
OS	Linux, Windows
Languages	<b>Hebrew</b> (native), <b>English</b> (full professional proficiency), <b>Italian</b> (limited working proficiency), <b>Arabic</b> (elementary proficiency)
Interests	cognitive sciences, statistical inference, philosophy of mind, moral philosophy, open science

## SELECTED REVIEWS FROM MY ONLINE PARTICIPANTS

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“This experiment was very enjoyable” (Prolific ID: 5f649be46e4ea202219bc735) \* “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) \* ” “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: 5f649be46e4ea202219bc735) \* “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)