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, ***Summa Cum Laude***. 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

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.

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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*, Dijkstra* & Fleming (*Journal of Neuroscience*, in press)
Dissociating the neural correlates of subjective visibility from those of decision confidence

Mazor & Fleming (*Journal of Experimental Psychology: General*, in press)
Zero-shot search termination reveals a dissociation between implicit and explicit metacognitive knowledge

Mazor, Demertzi, Fahrenfort, Faivre, Francken, Lamy, Moutoussis, Salomon, Soto, Stein & Lubianiker (*PsyArxiv*, submitted)
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 (GitHub, under review)
Internal models of visual search are rich, person-specific, and mostly accurate

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 (*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, 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, 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

"This experiment was very enjoyable" (Prolific ID: 5f649be46ebea202219bc735) * "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)