



Alessandro Mancari

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● WORK EXPERIENCE

 **UNIVERSITY OF PISA** – PISA, ITALY

POSTDOCTORAL RESEARCHER – 10/2024 – CURRENT

FMRI study of spatial selectivity of visual responses. Population receptive field modelling of responses to moving stimuli and analysis of retinotopic/spatiotopic selectivity within and across visual areas.

Supervisors: Prof. P Binda, Prof. MC Morrone

 **UNIVERSITY OF OXFORD** – OXFORD, UNITED KINGDOM

POSTGRADUATE RESEARCH STUDENT – 10/2020 – 07/2024

- Study of implicit, visual spatio-temporal learning, through psychophysical measurement of bias in motion perception.
- Psychophysical assessment of sensitivity and bias in auditory duration perception, following auditory and motor adaptation.
- Analysis of MEG data from an audio-visual entrainment task: event-related field analysis, and oscillation analysis (wavelet convolution).
- Analysis of online behavioural data from perceptual, motor, and attentional temporal tasks: model fitting, correlation analysis, General Linear Mixed Model analysis.

Supervisors: Prof. MC Morrone, Prof. K Nobre

 **UNIVERSITY OF PISA** – PISA, ITALY

RESEARCH FELLOW – 11/2019 – 09/2020

Psychophysics of time perception and data analysis (completing master thesis work).

 **UNIVERSITY OF PISA** – PISA, ITALY

MASTER THESIS INTERN – 02/2019 – 12/2019

Psychophysical study of the effect of auditory entrainment on visual temporal order judgments, in terms of perceptual sensitivity and behavioural oscillations of accuracy and response bias.

Supervisor: Prof. MC Morrone

 **UNIVERSITY OF OXFORD** – OXFORD, UNITED KINGDOM

MASTER THESIS INTERN – 11/2017 – 12/2018

FMRI study of stereopsis (3D vision) aimed at characterizing population receptive fields for binocular disparity within and across visual areas, and relating their properties to the participants' perception of depth of random dot stereograms.

Supervisors: Prof H Bridge, Prof AJ Parker.

Publications:

- <https://pubmed.ncbi.nlm.nih.gov/39919834/>
- <https://pubmed.ncbi.nlm.nih.gov/41183188/>

● EDUCATION AND TRAINING

10/2020 – CURRENT Oxford, United Kingdom

PHD IN PSYCHIATRY University of Oxford

Thesis Behavioural and neural effects of temporal relations between stimuli

10/2014 – 10/2019 Pisa, Italy

DIPLOMA DI LICENZA IN SCIENZE BIOLOGICHE Scuola Normale Superiore

- **Neurobiology:** neural plasticity, memory, optogenetics, neurophysiology, development and aging of the nervous system.
- Molecular and Cellular Biology: microscopy, imaging, stem cells and differentiation.
- Physics: classical mechanics, electromagnetism, thermodynamics, quantum mechanics.
- Mathematics: analysis, linear algebra, probability.

Level in EQF EQF level 7

02/2019 – 12/2019 Pisa, Italy

MASTER'S DEGREE IN MOLECULAR AND CELLULAR BIOLOGY University of Pisa

Final grade 110/110 cum laude | **Level in EQF** EQF level 7 |

Thesis Effect of Auditory Entrainment on Visual Time Perception (Supervisor: Prof MC Morrone).

10/2016 – 12/2018 Pisa, Italy

MASTER'S DEGREE IN NEUROSCIENCE University of Pisa

- Biophysics and neurochemistry
- Neuroanatomy and neurophysiology
- Development and differentiation of the nervous system
- **Human brain imaging and electrophysiology**
- **Sensory and cognitive neuroscience**

Final grade 110/110 cum laude | **Level in EQF** EQF level 7 |

Thesis Parametric Responses to Binocular Depth in Human Visual Cortex (supervisor: Prof MC Morrone, tutor: Prof AJ Parker).

10/2014 – 10/2016 Pisa, Italy

BACHELOR'S DEGREE IN BIOLOGY University of Pisa

Final grade 110/110 cum laude | **Level in EQF** EQF level 6 |

Thesis BDNF as synaptotrophin in the hippocampus (supervisors: Prof A Cattaneo, Prof M Pellegrino)

Vercelli, Italy

SCIENTIFIC HIGH SCHOOL DIPLOMA Scientific High School "A. Avogadro"

Level in EQF EQF level 4

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C2 | C2 | C2 | C2 | C2 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Matlab | R Statistical Software