

"Sensory Neuroscience - NEUROBRIDGE" Summer school

Gipsoteca di Arte Antica Piazza S. Paolo all'Orto, 20 Pisa, Italy

Wednesday 3rd

9:00 – 12:00 Paola Binda (*University of Pisa*)

Introduction

12:00 – 13:00 Lunch break

13:00 – 15:45 David C. Burr (*University of Florence*)

"Predictive perception: serial dependence, optimality and neural oscillations"

15:45 – 16:15 Coffee break

16:15 – 19:00 Roberto Arrighi (*University of Florence*)

"Evidence for a generalized sensorimotor number system"

Thursday 4th

9:00 – 12:00 Reuben Rideaux (*The University of Sydney*)

"The neuroscientist's toolbox: multiple ways to study sensory processing"

12:00 – 13:00 Lunch break

13:00 – 15:45 Olivier Collignon (*UCLouvain*) – remote lesson

"The cognitive neuroscience of complete sensory deprivation"

15:45 – 16:15 Coffee break

16:15 – 19:00 Martin Rolfs (*Humboldt-Universität zu Berlin*)

"Active vision: How eye movements impact vision and vice-versa"

19:00 – 20:00 Growing up in science

Friday 5th

9:00 – 12:00 Monica Gori/Lara Audrey Coelho (*IIT, Genova*)

"Multisensory plasticity"

12:00 – 13:00 Lunch break and train to Lucca

14:00 – 18:00 Site Visit at IMT

Scuola IMT Alti Studi Lucca, Piazza San Francesco 19, Lucca

14:00-14:20 – **Emiliano Ricciardi**: Introduction to IMT School and MOMILAB

14:20-14:50 – **Davide Bottari**: Biological biases and early experiences shaping how we process speech

14:50-15:20 – **Pietro Pietrini**: Are we really free? Neuroscience of human behavior

15:20-15:40 – **Giulio Bernardi**: Sensory processing during sleep and dreams

15:40-16:10 - coffee break

16.10-16:30 – **Marta Bortoletto**: TMS-Evoked Potentials: From network connectivity to local excitability

16:30-16:50 – **Giada Lettieri**: Emotional awarenees beyond vision

16:50-17:10 – **Folco Panizza**: Modelling sensory decision-making

17:10-17:30 – **Marco Pagani**: Subtyping autism with cross-species fMRI

17:30-18:00 - **Q&A**

18:00 – 19:00 Train to Pisa

Saturday 6th

9:00 – 12:00 Visit of the Museum of Human Anatomy “Filippo Civinini”

Scuola Medica, Via Roma 55, Pisa (PI)

12:00 – 13:00 Lunch break

13:00 – 15:45 Stefania Mattioni (University of Gent) – remote lesson

“Foundations of fMRI: From Physics to Univariate and Multivariate Analysis”

15:45 – 16:15 Coffee break

16:15 – 19:00 MiYoung Kwon (Northeastern University)

“How the brain adapts to vision loss: perceptual, oculomotor, and cortical reorganization”

Sunday 7th

13:00 – 15:45 Maria Concetta Morrone (University of Pisa)

“Plasticity of the human brain: from newborns to adults”

15:45 – 16:15 Coffee break

16:15 – 19:00 Ehud Zohary (The Hebrew University of Jerusalem)

“Recovery of vision after early-onset long-term deprivation: What can be gained, what remains deficient, and why?”

19:00 – 20:00 Meet the professors

Monday 8th

9:00 – 19:00 fMRI bootcamp at Imago7 - Valeria Centanino and Gianfranco Fortunato (SISSA)

Via dei Giacinti, 2, Calambrone, Pisa (PI)

Tuesday 9th

9:00 – 12:00 David Alais (The University of Sydney)

“Perception during action: walking modulates perception and behaviour at the step rate”

12:00 – 13:00 Lunch break

13:00 – 15:45 Marco Cicchini (Neuroscience Institute of CNR)

“Psychophysics: questioning the mind to understand the brain”

15:45 – 16:15 Coffee break

16:15 – 18:00 Final exam