University of Birmingham

Dr Massimiliano (Max) Di Luca

Lecturer in Computational Neuroscience

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About

(/university/colleges/les/research-gallery/max-di-luca.aspx) Dr Di Luca investigates the mechanisms of human perception using psychophysical methods and computational modeling. His research goal is to understand how humans integrate multiple sensory signals and accumulate information over time to generate a percept.

Dr Di Luca is part of the **Centre for Computational Neuroscience and Cognitive Robotics (CNCR) (/research/activity/cncr/index.aspx)** and Director of the **CNCR MSc (http://www.birmingham.ac.uk/students/courses/postgraduate/taught/psych/computation-neuro-cognitive-robotics.aspx)** .

Personal website: **http://massimilianodiluca.info/ (http://massimilianodiluca.info)**

Qualifications

- Laurea in Psychology, Università di Trieste, Italy
- PhD in Cognitive Science, Brown University, USA

Biography

Dr Di Luca studied Psychology at the Università di Trieste where he earned the Laurea degree with Laude in 2000. At Brown University he studied 3D shape perception with Prof Fulvio Domini, obtaining a PhD in Cognitive Science in 2006. He then worked as a postdoctoral researcher at the Max Planck Institute for Biological Cybernetics in the research group of Prof Marc Ernst and in the department of Prof Heinrich Bülthoff. In August 2011 he joined the University of Birmingham as a Lecturer in the **CNCR (/research/activity/cncr/index.aspx)** .

Teaching

2013-2014 Mind, Brain, and Models
2013-2014 Foundations of CNCR

2012-2013 Mind, Brain, and Models

Postgraduate supervision

Current postgraduate students from UoB:

- Ninja Horr
- Min Li
- Darren Rhodes
- Hua-Chun Sun

Current postdoctoral research associates:

- Markus Rank

If you are interested in working with Dr Di Luca, email him directly or find project descriptions on **FindAPhD (http://www.findaphd.com/search/phd.aspx?keywords=di+luca)** .

The list of past students can be found at: **http://massimilianodiluca.info (http://massimilianodiluca.info/pages/People.html)** .

Research

Dr Di Luca's research interests are within the field of human perception with the goal of understanding how the brain combines multisensory information for perception and action. Dr Di Luca is especially interested in capturing the temporal properties of multisensory processing and to model the computations performed in obtaining a percept. For this, Dr Di Luca uses psychophysical methods, signal processing, Bayesian modeling, and a wide range of technological tools. Current research covers several areas of perception and action:

- Perception of temporal properties

- Temporal factors in multisensory integration
- Visual-haptic interaction
- Perceptual recalibration
- 3D shape perception

Publications

A full list of publications with reprints can be found at: **http://massimilianodiluca.info (http://massimilianodiluca.info/pages/Publications.html)**

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