



Andrea Orlandi

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Male | 21/10/1986 | Italian

RESEACH INTERESTS

Body perception, action representation, visuomotor (dance) expertise, neural plasticity, motor imagery, mental rotation, neuroaesthetics of movement, social cognition

electroencephalography (EEG), event-related potentials (ERP), functional imaging (fMRI)

JOB-RELATED SKILLS

Good knowledge of theoretical models related to neuropsychology and cognitive neuroscience.

Good knowledge of the EEG/ERP (evoked-related potential) technique: both biological-theoretical and practical (recording and analysis) assumptions.

Good knowledge of specific software:

- EEG recording and stimuli presentation: Eevoke, Eeprobe, ASA (ANT Neuro software)
- Experiment creation: OpenSesame/E-Prime, PsychoPy.
- Statistical analysis: Statistica (StatSoft), SPSS, R.
- Photo, video, audio editing, and 3D graphic: Photoshop/Gimp, Adobe Premiere, Audacity, Blender.

Basic knowledge of Matlab, SPM, and Tracker (Offline Motion Tracking).

WORK EXPERIENCE

Postdoctoral research fellowship

Fellowship at Sapienza University of Rome, Dept. of Psychology, Italy.

SCNL - Social and Cognitive Neuroscience Laboratory | AgliotiLAB

Supervisor: Prof. Matteo Candidi

01.2015 – 10.2015

Fellowship at CNR (National Research Council)

Fellowship IBFM-CNR, Institute of Bioimaging and Molecular Physiology, CNR, Milan-Segrate, Italy
BANDO IBFM/B.S.005/2014/Z.A. - PROTOCOLLO N. 0003050 DEL 14/11/2014.

Supervisor: Dr Alberto Zani.

- Analysis and interpretation of EEG signals and map. RIPRENDO@home project.

03.2014 – 12.2014

Post-graduate trainee

University of Milano-Bicocca, Dept. of Psychology, Italy

Cognitive Electrophysiology Laboratory of Prof. Alice Mado Proverbio

- Experience in planning a cognitive electrophysiology investigation: creation of a set of stimuli, related bibliographic research and participation in EEG recording sessions.
- Tutor for graduating students.
- Good knowledge of ANT neuro (Eeprobe and Eveoke) and ASA software for EEG recording, ERP and swLORETA analysis.

EDITORIAL EXPERIENCE

- Topic editor for *Brain Sciences*
- Editor Reviewer for *Frontiers in Psychology*
- Translator of the book *Cognitive Neuroscience* (third Italian edition) by Gazzaniga, Ivry, & Magnun (edited by Zanichelli)

TEACHING EXPERIENCE

Lecture at Artichoke formazione danza ricerca (dance academy), Milan, Italy (29/03/2017)
“Le neuroscienze incontrano la danza” (Neuroscience meets dance)

Teaching assistant (Prof. Alice Mado Proverbio)

- Physiological Psychology (1/2015-present), Behavioral Disorders Psychobiology (9/2016-present) and Social Cognitive and Affective Neuroscience (9/2016-present)
- Experimental Research Methods in Cognitive Neuroscience (1/2015-3/2016) and Lifespan Psychobiology (1/2015-3/2017)
- Lecturer for the laboratory of 'EEG/ERP and neuroscience of dance' related to Physiological Psychology and Lifespan Psychobiology course (4/2016)

EDUCATION

11.2015 – 11.2018

Ph.D. Student

Ph.D. student in Psychology, Linguistics and Cognitive Neuroscience (Cum Laude)
University of Milano-Bicocca, Dept. of Psychology, Italy

Supervisor: Prof. Alice Mado Proverbio, Lab of Cognitive Electrophysiology

Thesis: “Action representation in the human brain: electrophysiological markers and neurofunctional correlates”. Date of thesis defence: 8.02.2019

02.2018 – 06.2018

Visiting Ph.D. Student

University of Glasgow, Scotland (UK).

10.2017 – 12.2017

Bangor University, Wales (UK).

Supervisor: Prof. Emily Cross, SoBA (Social Brain in Action) lab.

- fMRI investigation on the neural correlates underlying action timing perception and neuroaesthetics appreciation of dance actions.

ADVANCED COURSES

Radboud Summer School, Math and Matlab for Neuroscientists.
Radboud University, Nijmegen, The Netherlands.

12.07.2017 – 14.07.2017

7th IMPRS NeuroCom Summer School.
Max Plank Institute – UCL (University College London), London (UK).
Poster presentation. Award: Experimental Design Prize winner

19.06.2017 – 22.06.2017

Cutting EEG, 3rd Symposium on cutting-edge methods for EEG research.
University of Glasgow, Scotland (UK). Poster presentation.

04.09.2016 – 10.09.2016

The Visceral Ming VII Summer School. Bangor University, Wales (UK).

09.2011 – 03.2014

Master's Degree

Clinical and Developmental Psychology and Neuropsychology. University of Milano-Bicocca, Italy.

Thesis: “Neuroscienze della danza: il ruolo dell'expertise nella percezione del movimento”,
(Neuroscience of dance: the role of expertise in the perception of biological motion)

Supervisor: Prof. Alice Mado Proverbio. Final mark: 110/110 Cum Laude

09.2007 – 03.2011

Bachelor's Degree

Psychological Science and Techniques. University of Milano-Bicocca, Italy.

2007-2009

Artistic Degree

Accademia Pier Lombardo - Dance Department. Milan, Italy.

2001-2005

High School Diploma (scientific studies)

Liceo Scientifico Salesiani Don Bosco, Treviglio (MI), Italy.

PUBLICATIONS

Peer-reviewed journal articles: published

1. Orlandi A, Proverbio AM (2020). ERP indices of an orientation-dependent recognition of the human body. *Neuropsychologia*, 107535.
2. Orlandi A, Arno E, Proverbio AM (2020). The effect of expertise on kinesthetic motor imagery of complex actions. *Brain Topography*, 33(2), 238-354.
3. Orlandi A, D'Inca S, Proverbio AM (2020). Muscular effort coding in action representation in ballet dancers and controls: electrophysiological evidence. *Brain Research*, 146712.
4. Orlandi A, Proverbio AM (2019). Left-hemispheric asymmetry for object-based attention: an ERP study. *Brain Sciences*, 9(11), 315.
5. Orlandi A, Proverbio AM (2019). Bilateral engagement of the occipito-temporal cortex in response to dance kinematics in experts. *Scientific Reports*, 9(1), 1000.
6. Orlandi A, Zani A, Proverbio AM (2017). Dance expertise modulates visual sensitivity to complex biological movements. *Neuropsychologia*, 104: 168-181
7. Proverbio AM, Orlandi A, Bianchi E (2017). Electrophysiological markers of prejudice related to sexual gender. *Neuroscience*, 358: 1-12
8. Proverbio AM, Cozzi M, Orlandi A, Carminati M (2017). Error related negativity in the skilled brain of pianists reveals motor simulation. *Neuroscience*, 346: 309-319
9. Proverbio AM, Orlandi A, Pisanu F (2016). Brain processing of consonance/dissonance in musicians and controls: a hemispheric asymmetry revisited. *European Journal of Neuroscience*, 44(6): 2340-2356
10. Proverbio AM, Orlandi A (2015). Instrument-Specific Effects of Musical Expertise on Audiovisual Processing (Clarinet versus Violin). *Music Perception*, 33(4): 446-456
11. Proverbio AM, Gabaro V, Orlandi A, Zani A (2015). Semantic brain areas are involved in gesture comprehension: An electrical neuroimaging study. *Brain and language*, 147, 30-40
12. Zani A, Marsili G, Senerchia A, Orlandi A, Citron FM, Rizzi E, Proverbio AM (2015). ERP signs of categorical and supra-categorical processing of visual information. *Biological psychology*, 104, 90-107

Peer-reviewed journal articles: under review

13. Orlandi A, Cross ES, Orgs G (*Under review*). Timing is everything: Aesthetic perception of movement kinematics in dance. *Cognition*.

Book chapters

14. Cross ES, Orlandi A (2020). The Aesthetics of Action and Movement. In *The Oxford Handbook of Empirical Aesthetics*.

Published abstracts

15. Orlandi A, Zani A, Proverbio AM (2015). Dance expertise modulates the visuomotor perception of body motion. *Perception*, 44, 233
16. Orlandi A, Proverbio AM (2014). Dance expertise modulates the visuomotor processing of complex body movements. *Neuropsychological Trends*, 16, 109-110

PRESENTATIONS

Oral presentations

1. Orlandi A (2019). "Action representation in the human brain: electrophysiological markers and neurofunctional correlates". XXV Congresso Nazionale AIP (Sezione Sperimentale), Milan-San Raffaele, Italy. Candidate for doctoral thesis prize.
2. Orlandi A, D'Inca S, Arno E, Proverbio AM (2018). "Kinesthetic imagery and action representation: an insight from dance expertise". The 16th European Workshop on Imagery and Cognition (EWIC), Padova, Italy.
3. Orlandi A, D'Inca S, Arno E, Proverbio AM (2017). "Expertise-induced neural plasticity: Muscular effort coding in action representation in ballet dancers and naïve". International Symposium on Neurobiology, NeuroMI, Milan, Italy
4. Orlandi A, D'Inca S, Arno E, Proverbio AM (2016). "Codifica neuroelettrica dello sforzo muscolare nella rappresentazione dell'azione". XXII Congresso Nazionale AIP, Rome, Italy
5. Orlandi A, Calbi M, Proverbio AM (2014). "The neuroscience of dance: Role of expertise in the perception of biological motion". Summer school Università di Milano-Bicocca (Ph.D. program in Experimental psychology, linguistics and cognitive neuroscience), Villa Forno (Cinisello Balsamo), Italy

Posters

1. Orlandi A, Orgs G, Cross ES (2018). "Aesthetic perception of tempo and time dynamics in dance movements". Visual Neuroaesthetics Symposium (VisNA), Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany.
2. Orlandi A, Arno E, D'Inca S, Proverbio AM (2017). "Perceiving the exertion: the role of visuomotor expertise". 7th IMPRS NeuroCom Summer School, Max Plank Institute – UCL (University College London), London, England
3. Orlandi A, Zani A, Proverbio AM (2016). "Using Repetition Suppression to investigate the visual sensitivity to actions in experts and non-experts". CAOs (Concepts, Actions and Objects) Workshop in Rovereto (TN), Italy
4. Orlandi A, Zani A, Proverbio AM (2015). "Dance expertise modulates the visuomotor perception of body motion". European Conference on Visual Perception (ECVP), Liverpool, UK
5. Orlandi A, Proverbio AM (2014). "Dance expertise modulates the visuomotor processing of complex body movements". XXII Congresso Nazionale della Società Italiana di Psicofisiologia (SIPF), dalle Neuroscienze di base alla Neuroriabilitazione, Firenze, Italy