



Elisa Dolfini

● WORK EXPERIENCE

02/11/2018 - CURRENT - Ferrara, Italy

PHD STUDENT IN TRANSLATIONAL NEUROSCIENCE AND NEUROTECHNOLOGIES
UNIVERSITY OF FERRARA

My PhD activity is focused on the investigation on the role of inhibitory control on motor execution during Social Interaction, and in particular during Joint Action.

I used different protocols of the Transcranial Magnetic Stimulation (TMS): single and paired pulse protocols. Moreover, in these studies the analyses of movement kinematics was included.

Furthermore, I conducted studies on the analyses of functional connection between PMv and M1 using cortico-cortical Paired Associative Stimulation (cc-PAS, a TMS particular protocol).

Ferrara, Italy

01/04/2018 - 31/10/2018

FELLOWSHIP IN COGNITIVE NEUROPHYSIOLOGY

IIT (ITALIAN INSTITUTE OF TECHNOLOGY) - CENTER OF TRANSLATIONAL NEUROPHYSIOLOGY

Implementation of experiments on the modulation of corticospinal excitability during non-verbal interaction.

Ferrara, Italy

01/02/2017 - 31/01/2018

INTERNSHIP IN COGNITIVE NEUROPHYSIOLOGY

IIT (ITALIAN INSTITUTE OF TECHNOLOGY) - CENTER OF TRANSLATIONAL NEUROPHYSIOLOGY

The internship is focused on the implementation of experimental designs on motor resonance evoked by action observation and on the use of neuroscientific research techniques such as TMS, EEG, EMG and Motion Capture techniques.

Ferrara, Italy

05/2016 - 11/2016

INTERNSHIP IN CLINICAL PSYCHOLOGY – LABORATORY OF QUANTITATIVE PSYCHOLOGY
(DEPARTMENT OF GENERAL PSYCHOLOGY, UNIVERSITY OF PADUA)

The internship was focused on the development of a new tool able to assess Manic Episode based on the methodology of the Formal Psychological Assessment.

Padua, Italy

05/2014 - 09/2014

INTERNSHIP IN EXPERIMENTAL PSYCHOLOGY

DEPARTMENT OF GENERAL PSYCHOLOGY, UNIVERSITY OF PADUA)

The internship aimed to investigate the relationship among space, time and mathematics (ATOM model, V. Walsh, 2003) and the systematization in a specific group of subjects (i.e. university students with a strong scientific background).

Padua, Italy

● EDUCATION AND TRAINING

02/11/2018 - CURRENT - Ferrara, Italy

PHD IN TRANSLATIONAL NEUROSCIENCE AND NEUROTECHNOLOGIES – University of Ferrara

- TMS
- Joint Action
- cc-PAS
- EMG
- Kinematics

EQF level 8

14/10/2014 - 21/11/2016 - Padua, Italy

MASTER'S DEGREE IN COGNITIVE PSYCHOLOGY – University of Padua

- cognitive psychology
- cognitive sciences
- cognitive neuropsychology
- clinical psychology
- statistics

110/110 *cum laude* | EQF level 7

09/2009 - 09/2014 - Padua, Italy

BACHELOR'S DEGREE IN PSYCHOBIOLOGICAL AND COGNITIVE PSYCHOLOGICAL SCIENCE

University of Padua

- psychobiology
- cognitive sciences
- clinical psychology
- statistics
- social psychology and psychology of work
- genetics and biology

EQF level 6

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | B2 | B2 | B2 | B2 | B2 |

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

● PUBLICATIONS

Parallel fast and slow motor inhibition processes in Joint Action coordination

Cardellicchio, P. *, Dolfini, E. *, Fadiga, L., & D'Ausilio, A.
<https://www.sciencedirect.com/science/article/pii/S0010945220303841> - 2020
*equal contribution

Motor recruitment during action observation: Effect of interindividual differences in action strategy

Hilt, P. M., Cardellicchio, P., Dolfini, E., Pozzo, T., Fadiga, L., & D'Ausilio, A.
<https://academic.oup.com/cercor/article/30/7/3910/5733073?login=true> - 2020

Motor cortical inhibition during concurrent action execution and action observation

Cardellicchio, P. *, Dolfini, E. *, Hilt, P. M., Fadiga, L., & D'Ausilio, A.
<https://www.sciencedirect.com/science/article/pii/S1053811919310365> - 2020
*equal contribution

Beta rebound as an index of temporal integration of somatosensory and motor signals.

Cardellicchio, P., Hilt, P. M., Dolfini, E., Fadiga, L., & D'Ausilio, A.
<https://www.frontiersin.org/articles/10.3389/fnsys.2020.00063/full> - 2020

The role of dorsal premotor cortex in joint action stopping

Cardellicchio, P. *, Dolfini, E. *, D'Ausilio, A.
<https://www.sciencedirect.com/science/article/pii/S2589004221012992> - 2021
*equal contribution

Speech listening entails neural encoding of invisible articulatory features

in preparation

Hebbian-like plasticity in ventral premotor cortex-motor network following corico-cortical paired associative stimulation

in preparation

The role of dorsal premotor cortex in Joint Action

in preparation

● CONFERENCES AND SEMINARS

30/09/2021 - 02/10/2021 - Palermo
29th SIPF National Conference - Beyond the lockdown of the brain

Poster: "The Role of Premotor Areas in Joint Action Motor Inhibition"

22/04/2021 - 25/04/2021 - Palermo

93th SIBS National Conference

Oral presentation: "The role of premotor cortex in Joint Action"

14/11/2019 - 16/11/2019 - Ferrara

27th SIPF National Conference - The 'Feeling' Brain

Poster: "Motor cortical inhibition during concurrent action execution and observation"

10/07/2019 - 13/07/2019 - Genova

8th Joint Action Meeting (JAM)

Poster: "Different Processes of concurrent motor inhibition are active during Joint Action: Evidence from TMS study"

09/06/2019 - 13/06/2019 - Roma

2019 OHBM – Organization for Human Brain Mapping

Poster: "Motor cortical inhibition during concurrent action execution and observation"

● **ORGANISATIONAL SKILLS**

Organisational skills

- Good organizing and subjects' recruitment skills;
- Good managing of the experimental pipeline;
- Good time management skills.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

- good communication and team working skills
- good skills in dealing with experimental participants

● **JOB-RELATED SKILLS**

Job-related skills

- Good proficiency with TMS technique
- Good proficiency with EMG recordings
- Good proficiency with CED data acquisition interface for analogical and digital data recording
- Good proficiency with Signal software for data acquisition and EMG analysis
- Good proficiency with VICON three-dimensional infrared motion capture system for recording of human movement kinematics
- Discrete proficiency with BrainAmp amplifier for EEG recording during experimental tasks
- Good proficiency with STATISTICA software for statistical data analysis
- Discrete proficiency with MATLAB for kinematic data analysis, and basic proficiency for the development of experimental task

La sottoscritta acconsente, ai sensi del D.Lgs. 30/06/2003 n. 196, al trattamento dei propri dati personali.

La sottoscritta acconsente alla pubblicazione del presente curriculum vitae sul sito dell'Università degli Studi di Ferrara.

Ferrara, 07/04/2022