

MATTIA DORO

Post-doctoral fellow - [University of Padova](#)

I'm a Cognitive Neuroscientist at the University of Padova. My research interests are related to visual attention and visual short-term memory.



EDUCATION

2022
|
ongoing

Post-doctoral Research Fellow

University of Padova, Italy

Supervisor: Prof. Roberto Dell'Acqua

2019
|
ongoing

"Cultore della materia"

University of Padova, Italy

Subject expert and teaching assistant in Mechanisms of consciousness and error monitoring" (Prof. Roberto Dell'Acqua).

2020
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2021

Post-doctoral Research Fellow

University of Padova, Italy

Supervisor: Prof. Roberto Dell'Acqua

2018
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2019

Post-doctoral Research Fellow

University of Padova, Italy

Supervisor: Prof. Roberto Dell'Acqua

2017

PhD in Experimental Psychology

University of Padova, Italy

Supervisor: Prof. Roberto Dell'Acqua

2016

Visiting graduate student (1 year)

Université de Montréal

Supervisor: Prof. Pierre Jolicoeur

2013

MSc in Neuroscience - 107/110

University of Padova, Italy

Supervisor: Prof. Roberto Dell'Acqua



CONTACT INFO

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SKILLS

Coding: R, MATLAB, VB, Python, GIT

Markup: Markdown, HTML, CSS

Experiments: E-Prime, PsychoPy

EEG Analysis: Brain Vision Analyzer, EEGLAB/ERPLAB, FieldTrip

Operating System: Linux, Windows

LANGUAGE SKILLS

Italian: native language

English: fluent

Resume made with [pagedown](#)

Updated on 2023-02-07

2011 ● **BSc in Psychology - 101/110**
University of Padova, Italy
Supervisor: Prof. Massimo Grassi

TEACHING

2022 ● **Classes on error monitoring (12 hrs.)**
University of Padova
Mechanisms of Consciousness and Error Monitoring course (Prof. Dell'Acqua) of the master's course "Cognitive Neuroscience and Clinical Neuropsychology"

2021 ● **EEGLAB: basic analysis on electroencephalographic signal (20 hrs.)**
University of Padova

2021 ● **Classes on error monitoring (10 hrs.)**
University of Padova
Mechanisms of Consciousness and Error Monitoring course (Prof. Dell'Acqua) of the master's course "Cognitive Neuroscience and Clinical Neuropsychology"

2020 ● **Classes on error monitoring (10 hrs.)**
University of Padova
Mechanisms of Consciousness and Error Monitoring course (Prof. Dell'Acqua) of the master's course "Cognitive Neuroscience and Clinical Neuropsychology"

2017 ● **Class on EEG and cognitive mechanism (2 hrs.)**
University of Padova
Electrophysiology of Cognition, Intersubjectivity and Neural Resonance course (Prof. Sessa)

2015 ● **Class on EEG for investigating visual attention (2 hrs.)**
University of Padova
Electrophysiology of Cognition, Intersubjectivity and Neural Resonance course (Prof. Sessa)

2014 ● **Practical training in EEG data collection (6 hrs.)**
University of Padova
Human Cognition course (Prof. Bisiacchi and Prof. Dell'Acqua)

2013
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present ● **Practical training in EEG data collection and analysis: 31 students**
University of Padova

2014
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present ● **Thesis co-supervisor: 24 students**
University of Padova



TRAINING

- 2013 ● **Post-graduation Internship (1 year)**
University of Padova, Italy
Supervisor: Prof. Roberto Dell'Acqua
- 2011
|
2013 ● **Internship (2 years)**
University of Padova, Italy
Supervisor: Prof. Roberto Dell'Acqua



PAPERS

- 2022 ● **On target selection as reflected by posterior ERP components in feature-guided visual search**
Psychophysiology DOI: [doi:10.1111/psyp.14131](https://doi.org/10.1111/psyp.14131)
Dell'Acqua¹, Doro¹, Brigadoi, Drisdelle, Simal, Baro, Jolicœur (¹: shared authorship)
- 2022 ● **Shared attention amplifies the neural processing of emotional faces**
Journal of Cognitive Neuroscience DOI: https://doi.org/10.1162/jocn_a_01841
Schiano Lomoriello, Sessa, Doro, Konvalinka
- 2021 ● **A neural network predicting the amplitude of the N2pc in individual EEG datasets**
Journal of Neural Engineering DOI: [10.1088/1741-2552/ac2849](https://doi.org/10.1088/1741-2552/ac2849)
Marturano, Brigadoi, Doro, Dell'Acqua, Sparacino
- 2020 ● **Computer data simulator to assess the accuracy of estimates of visual N2/N2pc event-related potential components**
Journal of Neural Engineering DOI: [doi:10.1088/1741-2552/ab85d4](https://doi.org/10.1088/1741-2552/ab85d4)
Marturano, Brigadoi, Doro, Dell'Acqua, Sparacino
- 2020 ● **A bilateral N2pc (N2pcb) component is elicited by search targets displayed on the vertical midline**
Psychophysiology DOI: [doi:10.1111/psyp.13512](https://doi.org/10.1111/psyp.13512)
Doro, Bellini, Brigadoi, Eimer, Dell'Acqua
- 2019 ● **Emotion-related impulsivity moderates the cognitive interference effect of smartphone availability on working memory**
Scientific reports DOI: <https://doi.org/10.1038/s41598-019-54911-7>
Canale, Vieno, Doro, Rosa Mineo, Marino, Billieux

- 2018 ● **N2pc reflects two modes for coding the number of visual targets**
Psychophysiology DOI: <https://doi.org/10.1111/psyp.13219>
Benavides-Varela, Basso Moro, Brigadoi, Meconi, **Doro**, Simion, Sessa, Cutini, Dell'Acqua
- 2018 ● **Attentional guidance from multiple working memory representations: Evidence from eye movements**
Scientific Reports DOI: [doi:10.1038/s41598-018-32144-4](https://doi.org/10.1038/s41598-018-32144-4)
Zhang, Liu, **Doro**, Galfano
- 2018 ● **Neural measures of the role of affective prosody in empathy for pain**
Scientific Reports DOI: [doi:doi:10.1038/s41598-017-18552-y](https://doi.org/10.1038/s41598-017-18552-y)
Meconi, **Doro**, Schiano Lomoriello, Mastrella, Sessa
- 2017 ● **Backward masking interrupts spatial attention, slows downstream processing, and limits conscious perception**
Consciousness and Cognition DOI: <http://dx.doi.org/10.1016/j.concog.2017.04.005>
Losier, Lefebvre, **Doro**, Dell'Acqua, Jolicoeur
- 2016 ● **Enhanced frontal activation underlies sparing from the attentional blink: Evidence from human electrophysiology**
Psychophysiology DOI: <https://doi.org/10.1111/psyp.12618>
Dell'Acqua, **Doro**, Dux, Losier, Jolicoeur
- 2015 ● **The attentional blink impairs detection and delays encoding of visual information: Evidence from human electrophysiology**
Journal of Cognitive Neuroscience DOI: https://doi.org/10.1162/jocn_a_00752
Dell'Acqua, Dux, Wyble, **Doro**, Sessa, Meconi, Jolicoeur




CONFERENCES

- 2022 ● **Posterior ERP Components as a Marker of Target Selection in Feature Guided Visual Search**
Associazione Italiana di Psicologia [*Talk*] 📍 Padua, Italy
Doro [presenter], Brigadoi, Mamone, Jolicoeur and Dell'Acqua
- 2021 ● **Occipital Late Positivity in Visual Search Marks Target Access to Consciousness**
Psychonomic Society [*Talk*] 📍 Virtual
Doro [presenter], Dell'Acqua, Brigadoi, Drisdelle and Jolicoeur
- 2021 ● **Baselines in computing ERP components for midline and lateral visual attention**
Organization for Human Brain Mapping [*Poster*] 📍 Virtual
Doro [presenter], Dell'Acqua, Brigadoi, Drisdelle and Jolicoeur


- 2020 ● **A Time-Frequency Analysis for the Online Detection of the N2pc Event-Related Potential (ERP) Component in Individual EEG Datasets**
 IEEE Engineering in Medicine and Biology Society Conference [*Conference paper*] 📍 Montreal, Canada
 Marturano, Brigadoi, **Doro**, Dell'Acqua and Sparacino
- 2019 ● **Shared attention amplifies the processing of emotional faces**
 Joint Action Meeting [*Talk*] 📍 Genova, Italy
 Schiano Lomoriello, **Doro**, Sessa and Konvalinka
- 2019 ● **Development and Test of an ERP Simulator Emulating Visual N2 Variability in Amplitude and Latency.**
 Organization for Human Brain Mapping [*Talk*] 📍 Rome, Italy
 Marturano, Brigadoi, **Doro**, Dell'Acqua and Sparacino
- 2019 ● **Unexpected impact of upper hemifield on visual attention indexes: a new good practice for N2pc users**
 Organization for Human Brain Mapping [*Poster*] 📍 Rome, Italy
 Monnier, Dell'Acqua, **Doro** and Jolicoeur
- 2019 ● **Development of a Computer Simulator of the Visual N2 Event-Related Potential Component for the Study of Cognitive Processes.**
 MEDICON [*Conference paper*] 📍 Coimbra, Portugal
 Marturano, Brigadoi, **Doro**, Dell'Acqua and Sparacino
- 2018 ● **Intra and inter-hemispheric phase synchronization during visuo-spatial attention deployment and retention in visual work memory.**
 Society for Psychophysiological Research [*Conference paper*] 📍 Quebec City, Canada
 Monnier, Lina, Dell'Acqua, **Doro**, Wu and Jolicoeur
- 2016 ● **Comparing brain activity related to attention for lateral versus central targets presented among distractors**
 Psychonomic Society [*Poster*] 📍 Boston, USA
Doro [presenter], Jolicoeur and Dell'Acqua
- 2016 ● **A multi-modal fNIRS/EEG investigation of the fronto-parietal network during audio-visual matching**
 Society for Functional Near-Infrared Spectroscopy [*Talk*] 📍 Paris, France
 Brigadoi, Basso Moro, Meconi, Benavides-Varela, Tampu, **Doro**, Sessa, Simion, Cutini and Dell'Acqua
- 2016 ● **Encoding, attention, and masking in the attentional blink**
 Society for Psychophysiological Research [*Poster*] 📍 Seattle, USA
 Losier, Lefebvre, **Doro**, Dell'Acqua and Jolicoeur

- 2016


● **Comparing brain activity related to attention for lateral versus central targets presented among distractors.**
 Society for Psychophysiological Research [*Conference paper*]
 Doro [presenter], Jolicoeur and Dell'Acqua

 Minneapolis, USA
- 2016


● **The role of color in short-term memory maintenance.**
 Behavior and Cognitive Science [*Conference paper*]
 Losier, Lefebvre, Doro, Dell'Acqua and Jolicoeur

 Ottawa, Canada
- 2015


● **Investigating the processes underlying the elaboration of serial information: an EEG study**
 Cognitive Science Arena [*Poster*]
 Doro [presenter]

 Bressanone, Italy
- 2014

● **Working memory encoding in the attentional blink and its role in early attentional processing: Evidence from human electrophysiology**
 Canadian Society for Brain, Behavior and Cognitive Science [*Conference paper*]
 Losier, Lefebvre, Doro, Dell'Acqua and Jolicoeur

 Toronto, Canada
- 2013

● **Visual saliency pushes around the locus of attentional selection: Evidence from occipito-parietal ERP asymmetries**
 Society for Psychophysiological Research [*Conference paper*]
 Dell'Acqua, Doro, Sessa, Meconi, Fortier-Gauthier and Jolicoeur

 Firenze, Italy



REVIEWER ACTIVITY

- **Attention, Perception & Psychophysics**
- **Cerebral Cortex Communication**
- **Frontiers in Psychology**
- **Psychophysiology**
- **Quarterly Journal of Experimental Psychology**
- **Vision Research**
- **Brain Sciences**
- **Biological Psychology**

- **Behavioral Sciences**



OTHER ACADEMIC EXPERIENCES

- 2019 ● **Brain Awareness Week - University of Padova**
Padova, Italy
Talk – scientific dissemination
- 2017 ● **Veneto Night - Notte dei Ricercatori (University of Padova)**
Padova, Italy
Scientific dissemination
- 2015 ● **Veneto Night - Notte dei Ricercatori (University of Padova)**
Padova, Italy
Scientific dissemination