

# CURRICULUM VITAE

First name: Sonia  
Last name: Montemurro  
Date of birth: 17<sup>th</sup> of June 1988  
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## ACTUAL POSITION

*Postdoc Researcher at the Hospital San Camillo I.R.C.C.S. (Venice, Italy)*

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## WORK EXPERIENCE

Title: E-Tutor (20 hours)  
Task: Co-tutoring of Teaching of Cultural Neuropsychology and Neurobehavioral Assessment at the Cognitive Neuroscience and Clinical Neuropsychology Master Class  
Period: MAR, 2017 – JUN, 2017  
Institution: University of Padua (Italy). Supervisor: Prof. Sara Mondini, Associate Professor

Title: E-Tutor (20 hours)  
Tasks: Co-tutoring of Teaching of Cultural Neuropsychology and Neurobehavioral Assessment at the Cognitive Neuroscience and Clinical Neuropsychology Master Class  
Period: MAR, 2016 – JUN, 2016  
Institution: University of Padua (Italy). Supervisor: Prof. Sara Mondini, Associate Professor

Title: Forensic Psychologist  
Tasks: Cognitive Interview in presumed child abuse  
Date: APR 28<sup>th</sup>, 2016  
Institution: Courthouse of Matera, Italy, Proc. n. 385/16 RGNR; Proc.n. 677/16 RGgip

Title: Research Assistant  
Tasks: Assessment and patient-tailored neuro-visual treatments for patients with Hemianopia, Macular degeneration and Amblyopia  
Period: OCT 2014 – MAR 2015  
Institution: NeuroVis.U.S. Lab, University of Padua (Italy). Supervisor: Prof. Clara Casco, Full Professor

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## VOLUNTARY WORK

Title: Lecturer  
Tasks: Lecture at the Clinical Neuropsychology Master' class about cognitive driving assessment with the 'Vienna Test System' and computer-based rehabilitation with the 'CogniPlus' battery  
Date: 25<sup>th</sup> of November 2017;  
Institution: University of Padova (Italy), Supervisor: Prof. Sara Mondini, Associate Professor

Title: Neuropsychologist  
Tasks: Single-patient cognitive stimulation of a person affected by Lewy's body dementia.  
Period: MAR, 2016 – JUN, 2016  
Institution: "Casa di Cura Villa Maria", Padova (Italy)

Title: Neuropsychologist  
Tasks: Neuropsychological rehabilitation of patients with brain-injury cognitive impairment  
Period: MAR, 2016 – JUN, 2016  
Institution: Gruppo Veneto Diagnostica e Riabilitazione, Padova (Italy). Supervisor: Matteo Signorini, Psychologist and Psychoanalyst

Title: Neuropsychologist  
Tasks: Cognitive assessment of a wide range of cognitive deficits (e.g. memory, language, frontal dysfunctions and different types of Dementia), patients' age range 30 -90 years old  
Period: SEPT, 2015 – JAN, 2016  
Institution: Casa di Cura "Figlie di San Camillo", Cremona (Italy). Supervisor: Prof. Sara Mondini, Associate Professor

Title: Psychologist  
Tasks: Cognitive Stimulation assessment of older adults affected by severe Alzheimer's Type dementia  
Period: OCT, 2015 – JAN, 2016  
Institution: Associazione Italiana Malattia di Alzheimer (A.I.M.A.), Cremona (Italy). Director: Lorian Polini

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## TRAINING AND EDUCATION

Title: PhD candidate at Brain, Mind and Computer Science doctorate School  
Tasks: 3-years research program.  
Period: October 1<sup>st</sup> 2016 - 30<sup>th</sup> September, 2019 (thesis submitted)  
Institutions: Human Inspired Technology Research Centre (University of Padua); Department of General Psychology (University of Padua)

Title: PhD Trainee at the Spring Training in Experimental Psycholinguistics (STEP)  
Tasks: Statistical Analysis with R Software and experiment building.  
Period: May 13<sup>th</sup> - 18<sup>th</sup>, 2019  
Institution: University of Alberta (Edmonton, Canada)

Title: PhD Trainee in *Words in the World* Research Program founded by the Social Sciences and Humanities Research Council of Canada (SSHRC)  
Tasks: Collaboration for Research investigation on the effect of Cognitive Reserve on language processing  
Period: SEP 2018 - MAR 2019  
Institution: Institut Universitaire de Gériatrie de Montréal (Québec, Canada); Tutors: Prof. Gonia Jarema

Title: Graduated Trainee  
Tasks: Neuro-Visual Assessment and Rehabilitation of Amblyopia and Developmental Disease, maculopathy, and iii) TBI  
Period: APR 2014 - MAR 2015  
Institution: Interdepartmental Laboratories for applied and clinical psychological research (LIRIPAC). University of Padua (Italy); Tutor: Prof. Clara Casco

Title: Graduated Trainee  
Tasks: Transcranial Brain stimulation and Gabor Patch neuro-visual training of brain injury patients with hemianopia and quadrantopia  
Period: MAY 2014 - JUL 2014  
Institution: Visual rehabilitation Centre "L. Configliachi"; Tutor: Prof. Clara Casco, University of Padova (Italy)

Title: Graduated Trainee  
Tasks: Research Assistance in behavioral and EEG data collection for the analysis of Facial Expression Recognition; statistical analyses and realization of Bachelor Thesis.  
Period: SEP 2012 - APR 2013 at the Perception Action and Cognition Lab. University of Lincoln (United Kingdom); Tutor: Prof. Petra Pollux, PhD

Title: Pre-Graduation Trainee

Tasks: Research Assistance, data collection of behavioral and EEG data for the analysis of Language Production in healthy population

Period: MAR 2011 - JUN 2011 at the University of Padua (Italy); Cognition and Language Laboratory; Tutors: Prof. Eduardo Navarrete and Prof. Paola Sessa

Title: Master's Degree achieved in Neuroscience and Neuropsychological Rehabilitation; Thesis' title: 'Perceptual Learning of Facial Expression Recognition'

Period: 2011 – 2013 at the University of Padua (Italy); Tutor: Prof. Clara Casco

Title: Bachelor's Degree in Cognitive and Psychobiological Science; Thesis' title: 'Stroop Paradigm and distractor Frequency Effect in language production: an overt naming ERP study'

Period: 2008 – 2011. Institution: University of Padua (Italy), Tutors: Prof. Paola Sessa

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## VISITING

Visiting to the Graduate Center City University of New York (US) with Mira Goral, Professor of Speech-Language-Hearing Science; November 2017.

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## RESEARCH ACTIVITY

### i) Research Articles

1. Zangrossi A, **Montemurro S**, Altoè G, and Mondini S. Diagnostic accuracy and heterogeneity in cognitive decline: how many tests and how many phenotypes? (in preparation).
2. **Montemurro S**, Jarema G, and Mondini S. Contribution of Cognitive Reserve to language processing across Lexical Frequency, Lexical Semantics and Sentence Violation, in healthy older adults (submitted to *Aging, Neuropsychology and Cognition*).
3. **Montemurro S**, Mondini S, Signorini M, Marchetto A, Bambini V, and Arcara G. (2019). Pragmatic language disorder in Parkinson's Disease and its relationship with Cognitive Reserve. *Front. Psychol.* 10:1220. doi: 10.3389/fpsyg.2019.01220
4. **Montemurro S**, Mondini S, Crovace C, and Jarema G (2019). Cognitive Reserve and its effect in older adults on retrieval of Proper Names, Logo Names and Common Nouns. *Frontiers in Communication*, 4, 14. doi: 10.3389/fcomm.2019.00014.
5. **Montemurro S**, Mondini S, Nucci M, and Semenza C. (2018). Proper Name retrieval in cognitive decline: the role of Cognitive Reserve. *The Mental Lexicon* 13(2), 215-229, doi: <https://doi.org/10.1075/ml.18004.mon>
6. Devita M., **Montemurro S**, Zangrossi A, Ramponi S, Marvisi M, Villani D, Raimondi MC, Merlo P, Ruscono ML, and Mondini (2017). Cognitive and motor reaction times in obstructive sleep apnea syndrome: A study based on computerized measures. *Brain and Cognition*, <https://doi.org/10.1016/j.bandc.2017.07.002>.
7. Devita M, **Montemurro S**, Ramponi S, Marvisi M, Villani D, Raimondi MC, and Mondini S (2016). Obstructive Sleep Apnea and its Controversial Effects on Cognition. *Journal of Clinical and Experimental Neuropsychology*, <https://doi.org/10.1080/13803395.2016.1253668>
8. Maniglia M, Pavan A, Sato G, Contemori G, **Montemurro S**, Battaglini L, and Casco C (2016). Perceptual learning leads to long lasting visual improvement in patients with central vision loss. *Restorative neurology and neuroscience*, 34(5), 697-720.

## ii) Conference peer-reviewed abstracts and short papers

1. **Montemurro S**, Jarema G., Mondini S (2019). Lexical Frequency and Lexical Semantics interact with Cognitive Reserve. *Stem-, Spraak- en Taalpathologie*, vol. 24, Supplement, (pp 20-22).
2. Begolo M, Gaggi O, and Mondini S, and **Montemurro S**. Digital Neuropsychological assessment of discourse production: An Interdisciplinary approach. Accepted for oral presentation at GoodTechs 2019: 5th EAI International Conference on Smart Objects and Technologies for Social Good. 22nd – 23rd September 2019, Valencia (Spain), doi: 10.1145/3342428.3342656
3. **Montemurro S**, Crovace C, Jarema G and Mondini S (2018). Proper Name, Logo Name and Common Noun Retrieval: The Role of Cognitive Reserve. *Frontiers in Human Neuroscience*. Conference Abstract: Academy of Aphasia 56th Annual Meeting, 21st – 23rd October 2018, Montréal (Quebec, Canada). doi: 10.3389/conf.fnhum.2018.228.00009
4. **Montemurro S**, Mondini S, Signorini M, Bambini, and Arcara (2018). Disruption of pragmatic abilities in Parkinson's Disease: the role of Cognitive Reserve. Conference Paper and oral presentation at the 2nd Experimental Pragmatics in Italy Conference 2018, 30th May – 1st June 2018, Pavia (Italy). doi: 10.3389/conf.fpsyg.2018.73.00016.
5. Šneidere K, **Montemurro S**, Mondini S, Harlamova J, Ulmane Z, and Stepens A (2018). Cognitive reserve and cognitive performance in healthy Latvian seniors. Conference Paper, SOCIETY. INTEGRATION. EDUCATION. Proceedings of the International Scientific Conference. May 25th - 26th, 2018. Rezekne Academy of Technologies, Rezekne (Latvia). doi: <http://dx.doi.org/10.17770/sie2018vol1.3221>.
6. **Montemurro S**, Mondini S, Nucci M and Semenza C (2017). Proper Names in Aging: relationship with Cognitive Reserve. *Frontiers in Human Neuroscience*. Conference Abstract: Academy of Aphasia 55th Annual Meeting, 5th – 7th November 2017, Baltimore (United States of America). doi: 10.3389/conf.fnhum.2017.223.00083

## iii) Conference Posters and Oral Presentations

1. **Montemurro S**, Jarema G, and Mondini S (2019). Cognitive reserve, lexical frequency and lexical semantics in language processing. Oral presentation at Psycholinguistics Shorts, ERP Linguistics Lab, University of Ottawa; 1<sup>st</sup> of March 2019 (Ottawa, Canada).
2. **Montemurro S**, Jarema G., Mondini S (2018). Language Reserve in Aging Neuropsychology. Centre de recherche de l'Institut universitaire de gériatrie de Montréal; Yves Joannette's Lab. December 14<sup>th</sup>, 2018 Montreal, Canada.
3. **Montemurro S**, Mondini S, Crovace C, and Jarema G (2018). Proper Name, Logo Name and Common Noun Retrieval: The Role of Cognitive Reserve. Oral presentation at the 11<sup>th</sup> International Conference on the Mental Lexicon (MenLex2018), 25<sup>th</sup> – 28<sup>th</sup> September, (Edmonton, Canada).
4. **Montemurro S**, Crovace C, Jarema G, and Mondini S (2018). Retrieving Proper Nouns, Common Nouns and Brand Nouns: the contribution of Cognitive Reserve. Oral Presentation at Cognitive Science Arena. February 24<sup>th</sup> 2018, Brixen (Italy).
5. **Montemurro S**, Crovace C, Jarema G, and Mondini S (2018). Nomi Propri, Nomi Comuni e Nomi di Loghi. Che relazione con la Riserva Cognitiva? Oral Presentation at Giornata Italiana di Linguistica Sperimentale e Computazionale. February 23<sup>rd</sup>, 2018 University of Padova, Padova (Italy).
6. **Montemurro S**, Mondini S, Nucci M, and Semenza (2018). What relationship between Proper Names and Cognitive Reserve? (2018). Oral Presentation at the European Workshop on Cognitive Neuropsychology. January 21<sup>st</sup> - 26<sup>th</sup> 2018. Brixen (Italy).
7. **Montemurro S**, Mondini S, Agostini G, and Nucci M (2017). La Riserva Cognitiva e il caso dei nomi propri. XXIII Congresso Nazionale della Sezione Sperimentale. September 20<sup>th</sup> - 22<sup>nd</sup> 2017. Bari (Italy).

8. **Montemurro S** and Devita M (2017). The Role of Cognitive Reserve in the global cognitive decline: the “Strange” Case of Proper Names. Oral Presentation at the Cognitive Science Arena conference. February 17<sup>th</sup> – 18<sup>th</sup> 2017, Brixen (Italy).
9. Devita, M, **Montemurro S**, Argentieri, M, Dinoi, G, Malvina, M, Rusconi, ML, and Mondini, S (2017). Cognitive and motor reaction times in Obstructive Sleep Apnea Syndrome. A study based on computerized measures. *Thirty-Fifth European Workshop on Cognitive Neuropsychology: An interdisciplinary approach*. January 22<sup>nd</sup> - 27<sup>th</sup> 2017, Brixen, (Italy).
10. Devita M, **Montemurro S**, Villani D, Rusconi ML, and Mondini S (2016). Young Onset Dementia and role of Cognitive Reserve. Poster Session at the XLVII National Congress of Società Italiana di Neurologia, October 22<sup>nd</sup> - 25<sup>th</sup> 2016, Venice (Italy).
11. Devita M, **Montemurro S**, Argentieri M, Dinoi G, Rusconi ML, Mondini, S (2016). Funzionamento Cognitivo e Tempi di Reazione nelle Apnee Notturme Ostruttive prima e dopo trattamento con CPAP. Poster presentation at the XXII National Congress of Associazione Italiana di Psicologia; September 20<sup>th</sup> - 22<sup>nd</sup> 2016, Rome (Italy).
12. Devita M, Delaini C, **Montemurro S**, Argentieri M, Ramponi S, Marvisi M, Villani D, Raimondi MC, Rusconi ML, Mondini S (2016). Is obstructive sleep apnea really associated with cognitive impairment? Poster presentation at Federation of European Neuroscience Societies. July 2<sup>nd</sup>- 6<sup>th</sup> 2016, Copenhagen (Denmark).
13. **Montemurro S** and Devita M (2016). Young-onset dementia: a case study. Poster presentation at Cognitive Science Arena; February 19<sup>th</sup>-20<sup>th</sup> 2016, Brixen (Italy).
14. Devita M, Delaini C, **Montemurro S**, Argentieri M (2016). Is obstructive sleep apnea really associated with cognitive impairment? Poster presentation at the Cognitive Science Arena conference. February 19<sup>th</sup> - 20<sup>th</sup> 2016, Brixen (Italy).
15. Devita M, **Montemurro S**, Villani D, Mondini S (2016). Demenza Ad Esordio Giovanile: Il Ruolo Della Riserva Cognitiva. Poster presentation at the IX Convegno Nazionale Di Psicologia Dell'invecchiamento. Società Italiana Psicologia dell'invecchiamento. May 20<sup>th</sup>-21<sup>th</sup> 2016, Padua (Italy).

#### iv) Book Chapters

1. Borella E, Lobbia A, **Montemurro S**, Mondini S. Interventi per l'anziano sano e per l'anziano con invecchiamento patologico (in preparation).
2. Dinoi G and **Montemurro S** (2018). Condizioni cliniche che influenzano il comportamento di guida. In: Mondini S, Sartori G. (ed.) La patente di guida: breve manuale per la valutazione cognitiva. *Carocci Editore*, Roma. ISBN: 9788874667901.
3. Sòstero GH, Mondini S, **Montemurro S**, Peggion C, and Tormen G (2017). La riorganizzazione in chiave blended del corso Clinical Neuropsychology. In De Rossi M, Ferranti C (ed.) Integrare le ICT nella didattica universitaria. Padova University Press. ISBN: 978-88-6938-115-7.

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### EDUCATION FOR TEACHING

1. Seminar: “Share methods for creating active learning for adult learners”. May 19<sup>th</sup>, 2017, Department of General Psychology, University of Padova (Italy)
  2. Seminar: “ADDIE Method of instructional design”. May 19<sup>th</sup>, 2017 Department of General Psychology, University of Padova (Italy)
  3. Workshop: “Peer evaluation and feedback for learning: progettare peer review”. March 31<sup>th</sup>, 2017, Department of General Psychology, University of Padova (Italy)
  4. Workshop: “Learner centered teaching and teaching perspectives”. March 17<sup>th</sup>, 2017 Department of General Psychology, University of Padova (Italy)
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## SEMINARS AND WORKSHOPS

1. International Federation on Ageing (IFA) - Copenhagen Summit on Cognitive Reserve (24<sup>th</sup>-25<sup>th</sup> October, 2019), Copenhagen (Denmark).
  2. Thirty-two hours Academic English Course, JAN - MAY 2018 at Centro Linguistico di Ateneo (CLA), University of Padua (Italy)
  3. Seminar: "Cognitive Functions Dementia (CFD) test-set: guide for administration" (<https://www.schuhfried.com/testset/CFD>). JUL 28<sup>th</sup>, 2017; Huma Inspired Technology Research Centre, University of Padova (Italy)
  4. Thirty-hours Academic English Course, MAY - JUN 2017. Centro Linguistico di Ateneo, University of Padua (Italy)
  5. Summer School: "Meta-analisi e replicabilità dei risultati: Aspetti teorici e applicazioni in R" Associazione Italiana di Psicologia (AIP). JUL, 3<sup>rd</sup> – JUL 7<sup>th</sup>, 2017. Bertinoro, Forlì-Cesena (Italy)
  6. Seminar: "Cognitive Stimulation Therapy" (Aimee Spector, University College London). MAY 16<sup>th</sup>, 2017, University of Padova (Italy)
  7. Meeting: "Registered Reports and the Transparency and Openness Promotion (TOP) guidelines. Tools for improving the reproducibility of psychology and cognitive neuroscience" by Chris Chambers, FEB 18<sup>th</sup>, 2017, Brixen (Italy)
  8. Workshop: "Fifth International Workshop on Symbiotic Interaction". SEPT 29<sup>th</sup> — 30<sup>th</sup>, 2016, University of Padova (Italy)
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## MEMBERSHIP

1. Member of the Italian Association of Psychology (AIP), section: *Experimental Psychology*.
  2. Member of PhD Students' Representative Board at the Brain, Mind and Computer Science doctorate School (University of Padova) during the academic year 2017-2018.
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## TUTOR FOR MASTER STUDENTS' GRADUATION

Supervised by Sara Mondini. Tasks: support in data collection activity, interpretation of statistical data and thesis development. Period: October 2016 – October 2018.

1. Topic: "Obstructive Sleep Apnea Syndrome: a study on global cognitive functioning and response times".
2. Topic: "The role of Cognitive Reserve in predicting the global cognitive performance and the proper name retrieval: a study on elderly population"
3. Topic "The role of Cognitive Reserve in recovering names in healthy and pathological ageing: what advantage in case of high cognitive reserve?"
4. Topic: "Name retrieval and Cognitive Reserve: a study on elderly population"
5. Topic: "Pragmatic abilities of communication in healthy adults and seniors: the role of cognitive reserve, theory of mind and working memory"
6. Topic: "Assessment of speech-to-text transcription tools in the neuropsychological assessment dynamics between patient and clinician, during the evaluation of pragmatic abilities of communication in Parkinson's Disease.

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## LANGUAGES

Mother Language: Italian

Other languages:

English (C1), *IELTS* ACADEMIC Certificate N° 16 / IT003848MONS010A

Spanish (B1)

French (B1)

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## GENERAL INFORMATION

Scientific interests:

- Neuropsychological Assessment
- Neuropsychological Rehabilitation
- Brain Plasticity
- Cognitive Reserve and neuro-reorganization
- Neurophysiology and brain imaging

## COMPUTER SKILLS

- Windows and MAC operating systems
  - Microsoft Office (Word, Excel, Power Point)
  - SPSS (Statistical Package for Social Science)
  - R Studio for statistical analyses
  - GIMP cross-platform image editing
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## PERSONAL INTERESTS

- Swimming Teams: Padovanuoto Team (Padova, Italy); Baldesio Team (Cremona, Italy); Acquaviva 2001 Team. Athlete at competitive level in the Associazione Atleti Amatori team (Matera, Italy) for 10 years;
- Member of the Professional Association of Diving-Instructors (PADI) since 2014
- Yoga
- Areal Arts

Venice, 19/11/2019



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