

(allegato B)

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI

(art. 46 D.P.R. n. 445/2000 e s.m.i)

DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ

(art. 47 D.P.R. n. 445/2000 e s.m.i)

Il sottoscritto

COGNOME: DELLA ROSA

NOME : PASQUALE ANTHONY

NATO A: NEW HAVEN (Connecticut) U.S.A. **PROV.** EE

IL 29 DICEMBRE 1975

ATTUALMENTE RESIDENTE A: BUSNAGO

PROV. MONZA/BRIANZA

INDIRIZZO: VIA S. FRANCESCO 56/3 **C.A.P.** 20874

TELEFONO +39 328 0386151

Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;

Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive (*);

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità:

**che quanto dichiarato nel seguente curriculum vitae et
studiorum
comprensivo delle informazioni sulla produzione scientifica
corrisponde a verità**

Curriculum vitae et studiorum and Tracking Record

Pasquale Anthony Della Rosa

Curriculum vitae

Via S Francesco 56/3

20184 Busnago (MB), Italy

e-mail: dellaro.pasqualeanth@tiscali.it

PERSONAL DATA

Date of birth: 29th December 1975

Place of birth: New Haven Conn, U.S.A.

Citizenship: United States; Italy

Marital status: married

Research Profile/Interests

Pasquale Anthony Della Rosa earned his bachelor degree in Developmental Psychology from the University of Rome "La Sapienza" in 2002, and his PhD in Psychology from the University of Geneva (Switzerland) in 2011. He has carried out a two-year post-doctoral experience at the Faculty of Psychology, University San Raffaele, Milan, Italy. He has become a researcher of IBFM-CNR in 2013.

His research areas of interest are cognitive psychology, psycholinguistics, cognitive neuroscience and clinical neurology. In addition, he has developed over a decade an advanced expertise in the use of neuroimaging techniques, such as EEG structural and functional MRI, FDG-PET for the investigation of cognitive abilities in both healthy and pathological populations.

His research activities are focused on:

- i) language representation (semantic memory) and processing (both production and comprehension);
- ii) multilingualism and its neurocognitive consequences over life-span;
- iii) language, attention, executive functions and learning in typically developing populations and in developmental disorders;
- iv) cognitive impairments as a consequence of either brain injury or neurodegeneration in elderly populations;
- v) the development and implementation of advanced methods for the analysis of neuroimaging data, including neural functional and effective connectivity.

- vi) the development of Android Applications for screening, monitoring and rehabilitation of cognitive functions in developmental and aging populations.

EDUCATION

- 2003-2011 Doctor of Philosophy, Psychology,**
PhD 'Language switching in the bilingual brain: Behavioural, ERPs and fMRI evidence in Psychology
- Faculté de psychologie et des sciences de l'éducation, Université de Genève, Switzerland
- Supervisor: Prof. Dr. Uli Fraunfelder. Leader of the team focused on "Perception and production of speech" in the Psycholinguistics Research Group within the Cognitive Psychology Division at the Faculty of Psychology at the University of Geneva
- In close collaboration with the HUG - Hôpitaux Universitaires de Genève, my PhD project was awarded with a Roche Foundation fellowship and was focused on language switching in different bilingual populations using three different methodological approaches (behavioural, Event-related potentials - ERPs, and Functional Magnetic Resonance Imaging - fMRI) in order to trace an integrated and clear view of the cognitive and neural mechanisms underlying language switching.
- 2010 State Qualification Exam in Psychology**
- 1995-2002 Bachelor and Master Degree, Psychology**
Major: Psychology; Concentration: Developmental Psychology, University of Rome "La Sapienza".
Final grade: 104/110.
Thesis title: '*Continuity and discontinuity during the initial phases of communicative development*'
Thesis Advisor: Prof. Antonella Devescovi

PUBLICATIONS, PRESENTATIONS AND POSTERS

Peer-reviewed publications (h index = 9)

1. Branzi, F. M.*, **Della Rosa, P. A.***, Canini, M., Costa, A., & Abutalebi, J. (2015). Language Control in Bilinguals: Monitoring and Response Selection. *Cerebral Cortex*, bhv052. *equal contribution
2. Catricalà, E., **Della Rosa, P. A.**, Plebani, V., Perani, D., Garrard, P., & Cappa, S. F. (2015). Semantic feature degradation and naming performance. Evidence from neurodegenerative disorders. *Brain and language*, 147, 58-65.
3. Iaccarino, L. Crespi, C. **Della Rosa, P.A.** Catricalà, E. Guidi, L. Marcone, A. Tagliavini, F. Magnani, G. Cappa, S.F. Perani, D. The semantic variant of primary progressive aphasia: Clinical and neuroimaging evidence in single subjects (2015) PLoS ONE
4. Eleonora Catricalà*, **Pasquale A. Della Rosa***, Laura Parisi, Antonio G. Zippo, Virginia M. Borsa, Antonella Iadanza, Isabella Castiglioni, Andrea Falini and Stefano F. Cappa. FUNCTIONAL CORRELATES OF PRESERVED NAMING PERFORMANCE IN AMNESTIC MILD COGNITIVE IMPAIRMENT. *Neuropsychologia* (2015), <http://dx.doi.org/10.1016/j.neuropsychologia.2015.01.009i> *equal contribution
5. Jubin Abutalebi, Lucia Guidi, Virginia Borsa, Matteo Canini, **Pasquale A. Della Rosa**, Ben A. Parris, & Brendan S. Weekes. BILINGUALISM PROVIDES A NEURAL RESERVE FOR AGING POPULATIONS. *Neuropsychologia*, Accepted for Publication
6. Moodley, K. K., Perani, D., Minati, L., **Anthony Della Rosa, P.**, Pennycook, F., Dickson, J. C., ... & Chan, D. (2015). Simultaneous PET-MRI Studies of the Concordance of Atrophy and Hypometabolism in Syndromic Variants of Alzheimer's Disease and Frontotemporal Dementia: An Extended Case Series. *Journal of Alzheimer's Disease*, 46(3), 639-653.
7. Chiara Cerami, **Pasquale Anthony Della Rosa**, Giuseppe Magnani, Roberto Santangelo, Alessandra Marcone, Stefano F. Cappa and Daniela Perani. BRAIN METABOLIC MAPS IN MILD COGNITIVE IMPAIRMENT PREDICT HETEROGENEITY OF PROGRESSION TO DEMENTIA. *NeuroImage: Clinical*, 7, 187-194.

8. F. Gallivanone, **P.A. Della Rosa**, D. Perani, M.C. Gilardi, I. Castiglioni and the EADC-PET Consortium(*). THE IMPACT OF DIFFERENT 18FDG PET HEALTHY SUBJECT SCANS FOR COMPARISON WITH SINGLE PATIENT IN SPM ANALYSIS. The quarterly journal of nuclear medicine and molecular imaging: (PMID:25479418)

9. **Pasquale Anthony Della Rosa**, Ph.D; Chiara Cerami, MD; Francesca Gallivanone, PhD; Annapaola Prestia; Isabella Castiglioni; Maria Carla Gilardi; Karl J Friston; John Ashburner; Daniela Perani, MD (2014). A NEW STANDARDIZED [18F]-FDG-PET TEMPLATE FOR SPATIAL NORMALIZATION IN STATISTICAL PARAMETRIC MAPPING ANALYSIS OF BRAIN IMAGES IN DEMENTIA. *Neuroinformatics*, 12(4), pp. 575-93. doi: 10.1007/s12021-014-9235-4.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

10. Baldoli C, Scola E, **Della Rosa PA**, Pontesilli S, Longaretti R, Poloniato A, Scotti R, Blasi V, Cirillo S, Iadanza A, Rovelli R, Barera G, Scifo P. MATURATION OF PRETERM NEWBORN BRAINS: A FMRI-DTI STUDY OF AUDITORY PROCESSING OF LINGUISTIC STIMULI AND WHITE MATTER DEVELOPMENT. *Brain Struct Funct*. 2014 Sep 23. [Epub ahead of print]

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

11. C. Marino*, P. Scifo*, **P.A. Della Rosa***, M. Consonni, A. Facoetti, S. Mascheretti, M.L. Lorusso, R. Giorda, A. Falini, M. Molteni, J.R. Gruen and D. Perani (2014). WHITE MATTER DISORGANIZATION IN DCDC2 INTRON 2 DELETION WITH DYSLEXIC PHENOTYPE, A UNIVERSAL STRUCTURAL PHENOTYPE. *Cortex*, 57, pp. 227-43. doi: 10.1016/j.cortex.2014.04.016.
**equal contribution*

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

12. **Pasquale Anthony Della Rosa**, Eleonora Catricalà, Silvia De Battisti, David Vinson, Gabriella Vigliocco and Stefano F. Cappa (2014). HOW TO ASSESS ABSTRACT CONCEPTUAL KNOWLEDGE: THE CONSTRUCTION AND VALIDATION OF A NEW BATTERY OF SEMANTIC MEMORY TESTS. *Functional Neurology*, 29(1), pp.47-55.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

13. **Pasquale A. Della Rosa**, Matteo Canini ,Virginia Maria Borsa, Peter Mariën, Stefano Cappa, Jubin Abutalebi. FUNCTIONAL RECOVERY IN SUBCORTICAL CROSSED AND STANDARD APHASIA (2014) Journal of Neurolinguistics, 27 (1), pp. 103-118.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

14. Daniela Perani*, **Pasquale Anthony Della Rosa***, Chiara Cerami*, Francesca Gallivanone, Federico Fallanca, Emilia Giovanna Vanoli, Andrea Panzacchi, Flavio Nobili, Sabina Pappatà, Alessandra Marcone, Valentina Garibotto, Isabella Castiglioni, Giuseppe Magnani, Stefano F. Cappa, Luigi Gianolli, EADC-PET Consortium. VALIDATION OF AN OPTIMIZED SPM PROCEDURE FOR FDG-PET IN DEMENTIA DIAGNOSIS IN A CLINICAL SETTING (2014). Neuroimage Clinical, ahead of print

**equal contribution*

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

15. Eleonora Catricalà, **Pasquale A. Della Rosa**, Valentina Plebani, Gabriella Vigliocco, Stefano F. Cappa. ABSTRACT AND CONCRETE CATEGORIES? EVIDENCES FROM NEURODEGENERATIVE DISEASES. Neuropsychologia. 2014 pii: S0028-3932(14)00346-7. doi: 10.1016/j.neuropsychologia.2014.09.041.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

16. Abutalebi, J., Canini, M., **Della Rosa, P. A.**, Green, D. W., & Weekes, B. S. (2014). The neuroprotective effects of bilingualism upon the inferior parietal lobule: A Structural Neuroimaging Study in Aging Chinese Bilinguals. Journal of Neurolinguistics.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

17. Canini M., Battista P., **Della Rosa P.A.**, Catricalà E., Salvatore C., Gilardi M.C., Castiglioni I. Computerized neuropsychological assessment in aging: testing efficacy and clinical ecology of different interfaces. *Comput Math Methods Med.* 2014; 2014:804723. doi: 10.1155/2014/804723. Epub 2014 Jul 24.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

18. Claudia Cava, Gloria Bertoli, Marilena Ripamonti, Giancarlo Mauri, Italo Zoppis, **Pasquale Anthony Della Rosa**, Maria Carla Gilardi and Isabella Castiglioni* (2014). INTEGRATION OF MRNA EXPRESSION PROFILE, COPY NUMBER ALTERATIONS, AND MICRORNA EXPRESSION LEVELS IN BREAST CANCER TO IMPROVE GRADE DEFINITION. *PloS one*, 9(5), e97681.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR.

19. Cerami C., Crespi C., **Della Rosa P.A.**, Dodich A., Marccone A., Magnani G., Coppi E., Falini A., Cappa S.F., Perani D. BRAIN CHANGES WITHIN THE VISUO-SPATIAL ATTENTIONAL NETWORK IN POSTERIOR CORTICAL ATROPHY. *J Alzheimers Dis.* 2014 Aug 11. [Epub ahead of print]

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR.

20. Jubin Abutalebi, Matteo Canini , **Pasquale A. Della Rosa**, Lo Ping Sheung, David W. Green , & Brendan S. Weekes (2014). BILINGUALISM PROTECTS ANTERIOR TEMPORAL LOBE INTEGRITY IN AGING. *Neurobiol Aging*, 35(9), pp.2126-33. doi: 10.1016/j.neurobiolaging.2014.03.010. Epub 2014 Mar 15.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

21. Gabriella Vigliocco, Stavroula-Thaleia Kousta, **Pasquale Anthony Della Rosa**, David Vinson, Marco Tettamanti, Joseph T. Devlin, Stefano Cappa. THE NEURAL REPRESENTATION OF ABSTRACT WORDS: THE ROLE OF EMOTION. Accepted Manuscript, *Cerebral Cortex*.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

22. **Pasquale Anthony Della Rosa**, Gerda Videsott, Virginia Maria Borsa, Matteo Canini, Brendan Weekes, Rita Franceschini, Jubin Abutalebi. A neural interactive location for multilingual talent.
<http://dx.doi.org/10.1016/j.cortex.2012.12.001>

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

23. Daniela Perani, Orazio Schillaci, Alessandro Padovani, Flavio Mariano Nobili, Leonardo Iaccarino, **Pasquale Anthony Della Rosa**, Giovanni B. Frisoni, and Carlo Caltagirone (2014). A SURVEY OF FDG AND AMYLOID PET IMAGING IN DEMENTIA AND GRADE ANALYSIS. Biomed Res Int. doi: 10.1155/2014/785039. Epub 2014 Mar 19.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Review of FDG-PET literature and writing : PDR. Analysis of data: PADR. Drafting the article: PADR.

24. F Gallivanone, C Canevari, L Gianolli, C Salvatore, **P. Della Rosa**, MC Gilardi and I Castiglioni. A PARTIAL VOLUME EFFECT CORRECTION TAILORED FOR 18F-FDG-PET ONCOLOGICAL STUDIES. BioMed Research International (in press)

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Drafting the article: PADR.

25. Francesca Spagnolo, Elisabetta Coppi, **Pasquale Anthony Della Rosa**, Mario Fichera, Alessandra Barbieri, Giuseppe Magnani, Monica Falautano, Giancarlo Comi, Daniela Perani, Maria Antonietta Volontè, Letizia Leocani. DEEP MAGNETIC STIMULATION IN A PROGRESSIVE SUPRANUCLEAR PALSY PATIENT WITH SPEECH INVOLVEMENT. Journal of Neurology 12/2012; DOI:10.1007/s00415-012-6772-3. (IF:3.47)

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR.

26. Jubin Abutalebi, **Pasquale A. Della Rosa**, Guosheng Ding, Brendan Weekes, Albert Costa & David W. Green. LANGUAGE PROFICIENCY MODULATES THE ENGAGEMENT OF COGNITIVE CONTROL AREAS IN MULTILINGUALS. In press. DOI: 10.1016/j.cortex.2012.08.018

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

27. Eleonora Catricalà, **Pasquale A. Della Rosa**, Valeria Ginex, Zoe Mussetti, Valentina Plebani, Stefano F. Cappa (2012). AN ITALIAN BATTERY FOR THE ASSESSMENT OF SEMANTIC MEMORY DISORDERS. In press. DOI: 10.1007/s10072-012-1181-z

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

28. Diego Marconi, Rosa Manenti, Eleonora Catricalà, **Pasquale A. Della Rosa**, Simona Siri, Stefano F. Cappa. (2012). THE NEURAL SUBSTRATES OF INFERENCE AND REFERENTIAL SEMANTIC PROCESSING. In press. DOI: 10.1016/j.cortex.2012.08.001

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

29. Abutalebi Jubin, **Della Rosa Pasquale Anthony**, Castro Gonzaga Anna Kaarina, Keim Roland, Costa Albert, Perani Daniela (2012). THE ROLE OF THE LEFT PUTAMEN IN MULTILINGUAL LANGUAGE PRODUCTION. Brain and language. In press. DOI: 10.1016/j.bandl.2012.03.009

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

30. Bellebaum C, Tettamanti M, Marchetta E, **Della Rosa P**, Rizzo G, Daum I, Cappa SF. (2012). NEURAL REPRESENTATIONS OF UNFAMILIAR OBJECTS ARE MODULATED BY SENSORIMOTOR EXPERIENCE. CORTEX. In Press. DOI: 10.1016/j.cortex.2012.03.023

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Final approval of the version to be published: PADR.

31. Videsott G., **Della Rosa P.A.**, Wiater W., Franceschini R., Abutalebi J.A. (2012). HOW DOES LINGUISTIC COMPETENCE ENHANCE COGNITIVE FUNCTIONS IN CHILDREN? A STUDY IN MULTILINGUAL CHILDREN WITH DIFFERENT LINGUISTIC COMPETENCES. Bilingualism: Language and Cognition, 15(4), pp 884-895.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

32. Abutalebi J., **Della Rosa P. A.**, Green D., Hernández M., Scifo P., Keim R., Cappa S. F., Costa A. (2012). BILINGUALISM TUNES THE ANTERIOR CINGULATE CORTEX FOR CONFLICT MONITORING. *Cereb. Cortex*. 22(9), pp. 2076–2086.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

33. Catricalà, E., **Della Rosa, P.A.**, Ortelli, P., Ginex, V., Marcone, A., Perani, D., Cappa, S.F. (2011). THE EVOLUTION OF ALEXIA IN TWO CASES OF POSTERIOR CORTICAL ATROPHY. *Behavioural Neurology*, 24(3), pp. 229–236.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

34. **Della Rosa, P.A.**, Catricalà, E., Vigliocco, G., Cappa, S.F. (2010). BEYOND THE ABSTRACT-CONCRETE DICHOTOMY: MODE OF ACQUISITION, CONCRETENESS, IMAGEABILITY, FAMILIARITY, AGE OF ACQUISITION, CONTEXT AVAILABILITY, AND ABSTRACTNESS NORMS FOR A SET OF 417 ITALIAN WORDS. *Behavior Research Methods*, 42(4), pp. 1042–1048.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Conceived and designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

35. Jubin Abutalebi, **Pasquale Anthony Della Rosa**, Marco Tettamanti, David W. Green, Stefano F. Cappa (2009). BILINGUAL APHASIA AND LANGUAGE CONTROL: A FOLLOW-UP FMRI AND INTRINSIC CONNECTIVITY STUDY. *Brain & Language*, 109(2–3), pp. 141–156.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR. Final approval of the version to be published: PADR.

36. Marco Tettamanti, Rosa Manenti, **Pasquale A. Della Rosa**, Andrea Falini, Daniela Perani, Stefano Cappa, Andrea Moro

(2008). NEGATION IN THE BRAIN: MODULATING ACTION REPRESENTATIONS. *Neuroimage*, 43(2), pp. 358-367.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Designed the experiments: Drafting the article: PADR. Critically revising the article for important intellectual content: PADR. Final approval of the version to be published: PADR.

37. Simona Siri, Marco Tettamanti, Stefano F. Cappa, **Pasquale A. Della Rosa**, M. Cristina Saccuman, Paola Scifo, Gabriella Vigliocco (2008). THE NEURAL SUBSTRATE OF NAMING EVENTS: EFFECTS OF PROCESSING DEMANDS BUT NOT OF GRAMMATICAL CLASS. *Cerebral Cortex*, 18(1), pp. 171-177.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Designed the experiments: PADR. Acquisition of data: PADR. Analysis and interpretation of data: PADR. Drafting the article: PADR.

38. M. Cristina Saccuman, Stefano F. Cappa, Elizabeth A. Bates, Analia Arevalo, **Pasquale Anthony Della Rosa**, Massimo Danna and Daniela Perani (2006). THE IMPACT OF SEMANTIC REFERENCE ON WORD CLASS: AN fMRI STUDY OF ACTION AND OBJECT NAMING. *Neuroimage*, 32(4), pp. 1865-1878.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Drafting the article: PADR.

Papers submitted

39. Francesca Gallivanone, **Pasquale Anthony Della Rosa**, Isabella Castiglioni. STATISTICAL VOXEL-BASED METHODS AND [18F]FDG PET BRAIN IMAGING: FRONTIERS FOR THE DIAGNOSIS OF ALZHEIMER'S DISEASE. Submitted to *Current Alzheimers' Research*
40. Virginia Maria Borsa*, **Pasquale Anthony Della Rosa***, Eleonora Catricalà, Matteo Canini, Antonella Iadanza, Andrea Falini, Jubin Abutalebi & Sandro Iannaccone. Error monitoring in individuals with aMCI. A STRUCTURAL STUDY OF THE DORSAL ANTERIOR CINGULATE CORTEX. Under Revision: *Journal of Neuropsychology*

Book Chapters

41. Abutalebi, J. & **Della Rosa, P.A.** (2012). HOW THE BRAIN, ACQUIRES, PROCESSES AND CONTROLS A SECOND LANGUAGE. In Faust (eds.). The Handbook of the Neuropsychology of Language (Blackwell Handbooks of Behavioral Neuroscience). DOI: 10.1002/9781118432501.ch25

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Drafting the chapter: PADR. Critically revising the chapter for important intellectual content: PADR. Final approval of the version to be published: PADR.

42. **Della Rosa, P.A.** & Perani, D. (2012). ELECTRICAL AND FUNCTIONAL BRAIN IMAGING. In Berglund, Rossi, Townsend & Pendrill (eds.). Measurements with persons: Theory, methods and implementation areas. Psychology Press. ISBN: 978-1-84872-939-1

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): PADR. Drafting the chapter: PADR. Critically revising the chapter for important intellectual content: PADR. Final approval of the version to be published: PADR.

43. **Della Rosa, P. A.**, Franceschini R., Irsara V. (2011). Risultati dell'analisi linguistica. Per le 5^a classi. In Rita Franceschini, Pasquale Della Rosa, Rosmarie Mussner (Eds.), Ist. Pedagogich Ladin.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the chapter: PADR. Final approval of the version to be published: PADR.

44. **Della Rosa, P. A.**, Franceschini R., Irsara V. (2010). Risultati dell'analisi linguistica. Per le 3^a classi scuole secondarie di primo grado. In Rita Franceschini, Pasquale Della Rosa, Rosmarie Mussner (Eds.), Ist. Pedagogich Ladin. Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Analysis and interpretation of data: PADR. Drafting the chapter: PADR. Final approval of the version to be published: PADR.

45. Abutalebi, J. & **Della Rosa, P.A.** (2009). Imaging Technologies, in The Blackwell Guide to Research Methods in Bilingualism and Multilingualism (eds L. Wei and MG Moyer), Blackwell Publishing Ltd., Oxford, UK. DOI: 10.1002/9781444301120.ch8

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Drafting the chapter: PADR. Critically revising the chapter for important intellectual content: PADR.

46. Abutalebi, J., Doering, L. B., **Della Rosa, P. A.**, & Mariën, P. (2008). STRUCTURAL AND FUNCTIONAL NEUROIMAGING IN NEUROPSYCHOLOGY: A CONCISE OVERVIEW. In P. Mariën & J. Abutalebi (Eds.), Neuropsychological research: A review (pp. 51-72). New York, NY US: Psychology Press.

Author Contribution – Pasquale Anthony Della Rosa (**PADR**): Drafting the chapter:

Conferences and Workshops - Oral Presentations and Posters

- * The Neuroprotective effects of Bilingualism upon the Inferior Parietal Lobule: A Structural Neuroimaging Study (Matteo Canini, Pasquale Anthony Della Rosa, David Green, Brendan Weekes and Jubin Abutalebi)
- * Does multilingual competence influence cognitive control skills since early childhood? An er-fMRI follow-up study in multilingual children (Virginia Borsa, Pasquale A. Della Rosa, Matteo Canini, Gerda Videsott, Rita Franceschini and Jubin Abutalebi) International Symposium on Bilingualism, 2015
- * 18F-FDG-PET metabolic patterns in the semantic variant of PPA: Functional/clinical correlations. Single-subject 18F-FDG-PET beyond MRI". Leonardo Iaccarino; Pasquale A. Della Rosa et al.
Poster presentation American Academy of Neurology 66th Annual Meeting
- * FDG PET Evidence Of Atypical Medial Temporal Lobe Dysfunction In Prodromal Alzheimer's Disease. Chiara Cerami, Pasquale A. Della Rosa et al.
Poster presentation American Academy of Neurology 66th Annual Meeting,
- * Pronounced Visual-Motion Deficits In Developmental Dyslexia Associated With Alteration To Gene Dcdc2. Marco Cicchini, Pasquale A. Della Rosa et al. - FENS 2014
- * SECOND LANGUAGE PROFICIENCY INDUCES WHITE MATTER CHANGES IN THE LEFT PARIETAL LOBE IN AGING POPULATIONS. POSTER PRESENTATION. Matteo Canini, Pasquale A. Della Rosa, Lo Ping Sheung, Brendan S. Weekes & Jubin Abutalebi. European Societies for Neuropsychology (ESN), Berlin September 12-14.
- * FUNCTIONAL RECOVERY IN SUBCORTICAL CROSSED AND NON-CROSSED APHASIA. Virginia Maria Borsa, Pasquale A. Della Rosa, Matteo Canini, Stefano F Cappa, Jubin Abutalebi. Poster Presentation. European Societies for Neuropsychology (ESN), Berlin September 12-14.
- * SECOND LANGUAGE NAMING PERFORMANCE PREDICTS TEMPORAL POLE INTEGRITY IN AGING BILINGUALS. Jubin Abutalebi, Matteo Canini, Pasquale Della Rosa, Lo Ping Sheung, David W. Green, Brendan S. Weekes. Poster Presentation. European Societies for Neuropsychology (ESN), Berlin September 12-14.

- * VBM-DTI morphologic and voxel-based [18F]FDG-PET metabolic imaging in Posterior Cortical Atrophy: beyond the posterior involvement
 Chiara Cerami, MD, Chiara Crespi, MSc, Pasquale Anthony Della Rosa, PhD, Alessandra Dodich, MSc, Nicola Canessa, PhD, Alessandra Marcone, MD, Stefano Cappa, MD and Daniela Perani, MD. POSTER. AAN (2013)
- * Heterogeneity of brain glucose metabolism in single subjects with Mild Cognitive Impairment: the predictive role of [18F]FDG PET voxel-based imaging.
 Chiara Cerami, MD, Pasquale Anthony Della Rosa, PhD, Giuseppe Magnani, MD, Alessandra Marcone, MD, Stefano Cappa, MD and Daniela Perani, MD. POSTER. AAN (2013)
- * [18F]FDG PET assessment of metabolic abnormalities in single subjects affected by Mild Cognitive Impairment: role of voxel-based imaging
 Chiara Cerami, Pasquale Anthony Della Rosa, Giuseppe Magnani, Stefano F. Cappa, and Daniela Perani. SIN 2012 ORAL PRESENTATION
- * Clinical validation of a Grid-based SPM web tool for the automatic assessment of [18F]FDG-PET brain metabolic abnormalities in single subjects.
 Pasquale A Della Rosa, Chiara Cerami, Annapaola Prestia, Francesca Gallivanone, Giovanni Frisoni, Flavio Nobili, Stefano Cappa, and Daniela Perani MD. POSTER. EANM (2012)
- * *Effects of Multilingual competence on the development of cognitive control skills: an er-fMRI follow-up study in multilingual children.*
 Virginia Maria Borsa, Matteo Canini, **Pasquale Anthony Della Rosa**, Gerda Videsott, Rita Franceschini and Jubin Abutalebi. Poster AMLAP (2012)
- * *Slowly progressive anarthria: a syndrome of the frontotemporal lobar degeneration/amyotrophic lateral sclerosis spectrum.*
 Chiara Cerami, Eleonora Catricalà, **Pasquale Della Rosa**, Elena Farini, Alessandra Dodich, Daniela Perani, Stefano F. Cappa. Poster SINDEM (2012)
- * *Clinical Validation of a Grid-based SPM Web Tool for the Automatic Assessment of [18F]FDG PET Brain Metabolic Abnormalities in Single Subjects.*
Pasquale A Della Rosa, Chiara Cerami, Annapaola Prestia, Francesca Gallivanone, Giovanni Frisoni, Flavio Nobili, Stefano Cappa, and Daniela Perani MD. POSTER. AAN (2012)
- * *Colour knowledge impairment: an unusual presentation of semantic dementia? A case report.*

- Eleonora Catricalà, Chiara Cerami, **Della Rosa Pasquale**, Ginex Valeria, Elena Farini, Stefano F. Cappa. POSTER. SINDEM (2012)
- * *Clinical validation of a Grid-based SPM web tool for the automatic assessment of [18F]FDG PET brain metabolic abnormalities in single subjects.*
Pasquale Anthony Della Rosa , Chiara Cerami, Annapaola Prestia, Francesca Gallivanone, Giovanni Frisoni, Flavio Mariano Nobili, Stefano F. Cappa and Daniela Perani. POSTER. SINDEM (2012)
 - * *Analisi automatica degli studi di perfusione/metabolismo: SPM e altri sistemi.*
Pasquale A. Della Rosa and Daniela Perani. ORAL PRESENTATION. PESARO (2011)
 - * *DeCABS: a new test to investigate the domain of abstract concepts.*
Pasquale A. Della Rosa, Eleonora Catricalà, Valentina Plebani, Silvia De Battisti Stefano F. Cappa. ORAL PRESENTATION. SINP (2010)
 - * *CaGi: A new battery to investigate semantic memory deficits*
Eleonora Catricalà, Valeria Ginex, **Pasquale A. Della Rosa**, Stefano F. Cappa. POSTER. SINP (2009)
 - * *Language control beyond bilingualism: the case of multilinguals.*
Jubin Abutalebi, **Pasquale Anthony Della Rosa**, Roland Keim & Albert Costa. POSTER (2008)
 - * *The cingulate cortex is driven by performance: behavioural, functional and connectivity evidence in different populations.*
Francesca M. Branzi, **Pasquale A. Della Rosa** , Roland Keim, Albert Costa and Jubin Abutalebi. POSTER. BANGOR (2008)
 - * *Multilinguals vs. monolinguals: Functional and structural differences as revealed by a combined fMRI and VBM investigation.*
Anna Kaarina Castro Gonzaga, **Pasquale Anthony Della Rosa**, Roland Keim, Albert Costa, and Jubin Abutalebi. POSTER. BANGOR (2008)
 - * *Mode of Acquisition: A new approach to the investigation of the abstract conceptual domain.*
Pasquale A. Della Rosa , Eleonora Catricalà, Silvia De Battisti, Gabriella Vigliocco, Stefano F. Cappa. POSTER. CAOS (2007)
 - * *The effect of Mode of Acquisition on lexical representation and processing.*

Stavroula-Thaleia Kousta, **Pasquale Della Rosa**, Stefano Cappa, Gabriella Vigliocco ORAL PRESENTATION. AMPLAP (2007)

- * *Effective connectivity in the brain.*
Marco Tettamanti, **Pasquale A. Della Rosa**, Jubin Abutalebi.
ORAL PRESENTATION. Science of Aphasia (SOA) 2006
- * *The effects of sentential negation on action representation.*
Marco Tettamanti, Rosa Manenti, **Pasquale A. Della Rosa**,
Andrea Falini, Daniela Perani, Stefano Cappa, Andrea Moro.
POSTER. Human Brain Mapping (HBM) 2006
- * *Language switching in bilinguals: preliminary findings in a switching detection task.*
Pasquale Della Rosa, J. Abutalebi, A. Khateb, J. M: Annoni,
U. H. Frauenfelder POSTER. Interactive media: The
enhancement of multilingual communication and learning
through technology, 2006 Ascona, TI.
- * *How do bilinguals react to different types of switches in a sentence? A switching detection task.*
Pasquale Della Rosa, J. Abutalebi, U. H. Frauenfelder.
POSTER. NWO/Radboud University Workshop on Code-Switching
and Language Switching 2006 Nijmegen, The Netherlands.
- * *The differential representation of action verbs and action nouns in the brain: behavioural and fmri evidence.*
Simona Siri, **Pasquale Della Rosa**, Cristina Saccuman,
Gabriella Vigliocco, Paola Scifo, Marco Tettamanti, Stefano
Cappa. POSTER. Architecture and Mechanisms for Language
Processing (AMLAP) 2004 CNRS, Université de Provence.
- * *The run, to run, he runs: are verbs and nouns represented differently in the brain? Evidence from an er-fmri study.*
Simona Siri, **Pasquale Della Rosa**, Cristina Saccuman,
Gabriella Vigliocco, Paola Scifo, Marco Tettamanti, Stefano
Cappa. ORAL PRESENTATION. Society for Neuroscience 2004
San Diego, CA.

Research experience

- **Scientific Collaborator**, Ospedale San Raffaele, Pediatric Neuroradiology Unit. (Dr. Cristina Baldoli)
March 2013 - Current
Leads the development of an application aimed at familiarizing young children with Magnetic Resonance Scanning Procedure.

- **Scientific Collaborator**, Free University of Bozen. (Dr. Gerda Videsott)
June 2015 - Current
Leads the development of a multimedial application in order to collect information at different levels for the creation of a multilingual profile.

- **App Developer**
March 2013 -Current
Involved in the Development of Android Applications including:
 - Design and set up of User Interfaces
 - Design of Application work flow structure
 - Implementation of work flow Structure
 - Implementation of App communication with external Servers via HTTP, POST, GET
 - Implementation of Graphical library for real time presentation of results
 - Local storage of data in Excel format
 - Heap memory analysis and management
 - Design and Testing of inner app requirement solutions

- **Researcher**; Institute of Molecular Bioimaging and Physiology, National Research Council (CNR). March 2013 - March 2015.

His research areas of interest are cognitive psychology, psycholinguistics, cognitive neuroscience and clinical neurology. His research activities are focused on: i) language representation (semantic memory) and processing (both production and comprehension); ii) multilingualism and its neurocognitive consequences over life-span; iii) language, attention, executive functions and learning in typically developing populations or in developmental disorders; iv) cognitive impairments as a consequence of either brain injury or neurodegeneration in elderly populations; v) the development and implementation of advanced methods for

the analysis of neuroimaging data, including brain functional and effective connectivity.

- **Post-doctoral researcher**, University "Vita-Salute" San Raffaele, Milan, Italy. February 2011- March 2013.

FP7-EU project Diagnostic Enhancement of Confidence by an International Distributed Environment "DECIDE" under the supervision of Prof. Daniela Perani

The development and validation of a new methodological tool for the early and differential diagnosis of dementia through FDG-PET.

- **Scientific Collaborator**, Centre for Language Competences, Free University of Bozen. (Prof. Rita Franceschini)
January 2010 - December 2012

My work for the Center for Language Competence involved the development, implementation and data analysis of experimental paradigms aimed at the study of the relationship between the competence of multilingualism and the development of other cognitive abilities (eg, executive functions) in populations in the developmental age (age 5 to 18 years).

- **Data Analyst**, Ladin Pedagogical Institute, Bozen.
January 2010 - June 2012

Statistical Analysis of linguistic measures relative to different languages (Ladin, German, Italian and English) collected in schools located in South Tyrol on children at different ages.

- **Temporary researcher**, Scientific Institute "Eugenio Medea", Bosisio Parini. April 2010 - December 2010

The work in this period was focused on the aspects 'embodiement' in the language of children with autism. The objective was to investigate the relationship between language and music sounds and if there were differences between normal children and children with Asperger syndrome and high functioning autism at a younger age.

The research protocol was divided into three parts:

The first part involved evaluating language skills. The second part concerned evaluation of movement skills. The third experimental part combined sounds and words and involved listening to chords followed by words. RTs were collected and scores on the post-hoc directional characteristics and emotional valence of the stimuli.

- **Research fellow**, University "Vita-Salute" San Raffaele of Milan. March 2007-March 2010

FP7-EU project 'ABSTRACT' lead by Stefano Cappa and Gabriella Vigliocco on abstract conceptual knowledge

Construction of a database of Italian abstract and concrete words.

Construction and implementation of a new battery of neuropsychological tests for the evaluation of abstract knowledge in patients.

- Development and implementation of 3 fMRI experiments (1 at UCL in London and 2 at u-HSR in Milan) on semantic memory and the neural correlates of abstract conceptual representation and processing.

- **PhD Student**

Faculty of Psychology and Educational Science, University of Geneva
Period: October 2003 - February 2011.

The work in this period was focused on defining the PhD project, the development and implementation of experiments, the collection and analysis of experimental data with 3 different techniques and survey methods (behavioral, Event-related potentials - ERPs, Functional Magnetic Resonance Imaging - fMRI) and the writing of a doctoral thesis

- **Roche Foundation scholarship for Doctoral Thesis**, Neuropsychology Unit, Department of Neurology Geneva University Hospital, Switzerland. October 2003-December 2005

The development and implementation at the University of Geneva and at the HUG of the *behavioral* and *ERPs* experiments included in the PhD doctoral thesis titled

'Language switching in the bilingual brain:
Behavioral, ERPs and fMRI evidence'.

- **Internship as Junior Psychologist**, Center for Cognitive Neuroscience, University "Vita-Salute" San Raffaele of Milan. February 2003-March 2004

In this period I was mainly involved in the selection of stimuli, the construction of an experimental design, the statistical analysis of stimuli characteristics, subject screening, MRI acquisition and basic steps of Image data processing for an experiment on language investigating the differences between noun and verb processing.

TEACHING EXPERIENCE

Courses Taught

Lecturer: Laboratorio di psicofisica della percezione, Corso di Laurea Specialistica Interfacoltà in Neuroscienze Cognitive, Facoltà di Psicologia, University "Vita-Salute" San Raffaele. Spring 2010

- The aim of this laboratory was twofold: combine and introduce the principles at the basis of measurements in psychophysics added with the tools necessary to process psychophysical measurements 2) Group work: generate a research question, construct an experimental paradigm and plan appropriate data analysis in the context of an holistic framework taking in consideration all the disciplines studied in the Cognitive Neuroscience Program.

Methodological Seminar: 'Il metodo scientifico & Quale analisi statistica devo utilizzare?' Free University of Bozen. Winter 2011.

Teaching assistantships

Research assistant: Laboratory of Cognitive Neuropsychology, Prof. Jubin Abutalebi. Cognitive Neuroscience, Faculty of Psychology, University "Vita-Salute" San Raffaele'. Winter 2009-2011

Research assistant: Neuropsychology of language, Prof. Jubin Abutalebi. Cognitive Neuroscience, Faculty of Psychology, University "Vita-Salute" San Raffaele'. Winter 2009-2011

Exam committee member: Antropology of Communication, Prof. Marco Rigamonti. Cognitive Neuroscience, Faculty of Psychology, University "Vita-Salute" San Raffaele'. Winter 2009-2011

Exam committee member: Neuropsychology of Language, Prof. Stefano F. Cappa. Cognitive Neuroscience, Faculty of Psychology, University "Vita-Salute" San Raffaele. Winter 2009-2010.

Exam committee member: Neuropsychology Applications, Prof. Eleonora Catricalà. Psychology, Faculty of Psychology, University "Vita-Salute" San Raffaele'. Winter 2011.

PhD Thesis co-advisor:

PhD program in Science and Philosophy of Mind, University "Vita-Salute" San Raffaele'

PhD program in Neuroscience of Decisions, University "Vita-Salute" San Raffaele'

Masters' Thesis advisor: Cognitive Neuroscience, Faculty of Psychology.

Under-graduate Thesis advisor: Psychology, Faculty of Psychology, .

Masters' Thesis Topics of Interest:

- MULTILINGUALS VS. MONOLINGUALS: STRUCTURAL AND FUNCTIONAL DIFFERENCES
- TASK-SWITCHING: A COMPARISON BETWEEN BILINGUALS AND MONOLINGUALS
- ATTENTIONAL NETWORKS IN LIFESPAN
- THE ACC IS DRIVEN BY PERFORMANCE: BEHAVIOURAL, FUNCTIONAL AND CONNECTIVITY EVIDENCE IN DIFFERENT POPULATIONS

- THE EMOTIONAL COUNTING STROOP: A PARADIGM FOR EVALUATING THE ABSTRACT/CONCRETE DIFFERENCE
- DeCAbs: STANDARDIZATION OF A NEW BATTERY FOR THE EVALUATION OF ABSTRACT CONCEPTS.
- The role of emotional valence in the abstract-concrete dimension: possible dissociation. A comparison between autistic and typically developing individuals"
- MOA: THE MODALITY OF ACQUISTION OF A CONCEPT

LANGUAGES

- English: native speaker
- Italian: native speaker

TECHNICAL SKILLS

- Reviewer:
 - Cortex
 - Neuropsychologia
 - Bilingualism: Language and Cognition (Editorial board)
 - Behavioural Research Methods
- Neuroimaging data analysis: Event-related potentials (ERPs) and Multimodal Imaging (functional and structural magnetic resonance imaging, Positron Emission Tomography)

Software: SPM99, SPM2, SPM5, SPM8, SPM12, VBM8, FSL, TBSS, Analyze, MRicro, MRicroN, Cartool, Fieldtrip, Matlab.

- Psychometric data analysis:
 - Analysis of behavioral performance (Reaction Times and Accuracy), standardization of measures for psychological and neuropsychological assessments, analysis of psycholinguistic characteristics of experimental stimuli.

Software: JMP Statistics, SPSS, STATISTICA.

- Stimulus delivery and experimental control:

Software: Presentation Neurobehavioral Systems, E-Prime

- Operating Systems
 - * Microsoft Windows Environment
 - * Linux Environment

REFERENCES

Prof. Uli Frauenfelder
Professor of Psychology,
University Vita-Salute San Raffaele,
Email: cappa.stefano@hsr.it

Prof. Jubin Abutalebi
Professor of Neuropsychology of Language
University Vita-Salute San Raffaele,
Email: abutalebi.jubin@hsr.it

Prof. David Green
Emeritus professor of Psychology
University College of London,
Email: d.w.green@ucl.ac.uk
