
CURRICULUM VITAE

Name: Davide Rivolta
Date of birth: [REDACTED]
Citizenship: Italian
Languages: Italian, English, Spanish (basic), German (basic)

CONTACT DETAILS

Postal Address: Department of Education, Psychology and Communication, University of Bari Aldo Moro, Via Crisanzio 42, 70121, Bari, Italy

E-mail: davide.rivolta@uniba.it; **PEC:** [REDACTED]
Tel: +39 (0) 8057 14763

PROFESSIONAL EXPERIENCE AND QUALIFICATIONS

Current position

2017-now Associate professor of Psychobiology & Physiological psychology (M-PSI/02)
Institution: Department of Education, Psychology and Communication, University of Bari Aldo Moro, Bari, Italy. *Research focus:* Cognitive neuroscience and biological psychiatry

Previous positions

2013-2017 Senior Lecturer (Psychology)
Institution: School of Psychology, University of East London (UEL), London, UK.
Research focus: Cognitive psychology and cognitive neuroscience

2011-2013 Post-doctoral scientist: Department of Neurophysiology, Max Planck Institute for Brain Research (Frankfurt am Main, Germany). *Advisors:* Prof. Michael Wibrall, Prof. Wolf Singer, Prof. Peter J. Uhlhaas. *Research focus:* Biological psychiatry, Human Neurophysiology and Neuropsychopharmacology

2010-2011 Post-doctoral scientist: Macquarie Centre for Cognitive Science (MACCS, Macquarie University, Sydney, Australia). *Advisor:* Prof. Mark A. Williams. *Research focus:* Multivariate analysis (MVPA) of functional MRI datasets

2007-2011 Research assistant: Macquarie Centre for Cognitive Science (MACCS, Macquarie University, Sydney, Australia) and Australia National University (ANU, Canberra, Australia). *Advisor:* Prof. Romina Palermo. *Research focus:* Face processing abilities in congenital prosopagnosia

2006-2007 Research assistant: Pavia University (Pavia, Italy). *Advisor:* Prof. Alessio Toraldo. *Research focus:* Spatial perception in stroke patients

Qualifications

- 09/2019** Member of the Doctorate School of the University of Bari Aldo Moro, Italy
- 11/2018** National Scientific Qualification as *Full professor* (Italy)
Category: General psychology, psychobiology and psychometry (11/E1)
- 01/2018** Master degree in psychotherapy (Cognitive-Neuropsychological orientation)
Institution: Scuola Lombarda di Psicoterapia Cognitiva-Neuropsicologica (SLOP), Pavia, Italy
- 07/2015** Fellow of the Higher Education Academy (fHEA)
- 06/2015** Post Graduate Certificate (PG Cert) in Learning & Teaching in Higher Education
- 01/2012** Registration to the Italian Board of Psychologists (ID: 15663)
- 09/2011** PhD in Cognitive Science
Institution: Macquarie Centre for Cognitive Science (MACCS), Macquarie University, Sydney, Australia
Supervisors: Prof Mark Williams, A/Prof Romina Palermo, Prof Laura Schmalzl & Prof Max Coltheart
Thesis: Face processing in typical and congenitally-prosopagnosic adults: Behavioural and neuroimaging investigations
- 02/2006** MD in Cognitive Neuropsychology (Summa cum laude)
Institution: University of Pavia, Italy
Supervisors: Prof Gabriella Bottini & Dr Pina Scarpa
Thesis: Emotional decoding in patients with Temporal and Fronto-Temporal lobe epilepsy
- 09/2003** BA (Hons) in Psychology
Institution: University of Pavia, Italy
Supervisors: Prof Tomaso Vecchi & Dr Annapia Verri
Thesis: Personality Disorders in a case of Lobar Holoprosencephaly

Clinical work experience

- 2013-2018** Private practice as psychotherapist
- 2012 - 2013** Clinical internships completed as part of the requirements for the habilitation in Psychotherapy:
- VITOS, Frankfurt, Germany
Activities: Clinical psychology, counselling, psychotherapy
- 2005 - 2006** Clinical internships completed as part of the requirements for the Master in Cognitive Neuropsychology and professional habilitation as a Psychologist in Italy:
- Niguarda Ca' Granda Hospital, Milan, Italy
- Fondazione Salvatore Maugeri (I.R.C.C.S.), Pavia, Italy
Activities: Neuropsychological evaluation of people with drug resistant epilepsy and of people with brain lesions
- 2002 - 2003** Clinical internships completed as part of the requirements for the BA in Psychology:
- Fondazione "Istituto Neurologico C. Mondino" (I.R.C.C.S.), Pavia, Italy
Activities: Clinical and neuropsychological evaluation of people suffering extrapyramidal diseases, psychosomatic diseases and cognitive deterioration

Teaching experience

- 2017-now** Module leader and lecturer (Physiological psychology; Cognitive neuroscience and neuropsychology, Psychology of personality), University of Bari Aldo Moro, Bari, Italy.

2014-2017	<u>Module leader and lecturer</u> (PY5203 - Topics in cognitive and developmental psychology), University of East London (UEL), London, UK
2014-2017	<u>Lecturer</u> (PY5101 - Research methods; PY5205 – Cognitive Neuropsychology), University of East London (UEL), London, UK
2009-2010	<u>Teaching Assistant</u> (PSY104 and PSY105 - Introduction to Psychology I and II), Macquarie University, Sydney, Australia
2004-2006	<u>Psychology tutor</u> (Psychophysiology and Neuropsychology), Pavia University, Pavia, Italy

PUBLICATIONS

Refereed journal articles (ORCID ID: 0000-0002-9969-9135)

Bibliometrics (Scopus):

- Citations: 1302
- H-index: 18
- Articles #: 39

Battista, P., Griseta, C., Tortelli, R., Guida, P., Castellana, F., **Rivolta, D.** & Logroscino, G. (2020). The Modified Five-Point Test (MFPT): Normative data for a sample of Italian elderly. *Neurological Sciences*.

Bossi, F., Premoli, I., Pizzamiglio, S., Balaban, S., Ricciardelli, P. & **Rivolta, D.** (2020). Theta- and gamma- band activity discriminates face, body and object perception. *Frontiers in Human Neuroscience*. 4:74. DOI: 10.3389/fnhum.2020.00074.

Monti, C., Sozzi, M., Corbo, M., Bossi, F. & **Rivolta, D.** (2020). Atypical holistic processing of facial identity and expression in a case of acquired prosopagnosia. *Cognitive Neuropsychology*, Jan 27: 1-25, DOI: 10.1080/02643294.2020.1718071.

Gonzalez-Perez, M., Wakui, E., Thoma, V., Nitsche, M.A. & **Rivolta, D.** (2019). Transcranial alternating current stimulation (tACS) at 40 Hz enhances face and object perception. *Neuropsychologia*. Oct 23, 135:107237, DOI: 10.1016/j.neuropsychologia.2019.107237.

Edgcumbe D. R., Thoma, V., **Rivolta, D.**, Nitsche, M. A. & Fu, C.H.Y. (2019). Anodal transcranial direct current stimulation over the right dorsolateral prefrontal cortex enhances reflective judgment & decision-making. *Brain stimulation*. 12(3), 652-658. DOI: 10.1016/j.brs.2018.

Willis, M., Costantino, A. I., Nitsche, M. A., Palermo, R. & **Rivolta, D.** (2019). Anodal tDCS and high-frequency tRNS targeting the occipitotemporal cortex do not always enhance face perception. *Frontiers in Neuroscience*. 13:78. DOI: 10.3389/fnins.2019.00078.

Grent-'T Jong, T., **Rivolta, D.**, Heidegger, T., Singer, W., Sauer, A., Schwannauer, M., Gajwani, R., Lawrie, S., Gross, J., Sheller, B., & Uhlhaas, P.J. (2018). Ketamine dysregulates task-related neural oscillations in thalamo-cortical circuits: Implications for pathophysiological theories of visuo-perceptual deficits in ScZ. *Brain*, 141(8), 2511-2526. DOI: 10.1093/brain/awy175.

Valla, L.G., Bossi, F., Cali R., Fox, V., Ali, S.I. & **Rivolta, D.** (2018). Not only Whites: Racial priming effect for Black faces in Black people. *Basic and applied social psychology*, 40(4), 195-200. DOI: 10.1080/01973533.2018.1462185.

Zipser, C.M., Premoli, I., Belardinelli, P., Castellanos, N., **Rivolta, D.**, Heidegger, T., Müller-Dahlhaus, F. and Ziemann, U. (2018). Cortical excitability and interhemispheric connectivity in early relapsing-remitting multiple sclerosis studied with TMS-EEG *Frontiers in Neuroscience*. 12:393. DOI: 10.3389/fnins.2018.00393.

- Zocchi, S., Borasio, F., **Rivolta, D.**, Rositano, L., Scotti, I. & Liccione, D. (2018). Temporally extended self-awareness and affective engagement in three-year-olds. *Consciousness & Cognition*, 57, 147-153. DOI: j.concog.2017.12.001.
- Costantino, A. I.*, Titoni, M.*, Bossi, F., Premoli, I., Nitsche M. A. & **Rivolta, D.** (2017). Preliminary evidence of “Other-race effect”-like behavior induced by cathodal-tDCS over the right occipital cortex, in the absence of overall effects on face/object processing. *Frontiers in Neuroscience*. 11:661. DOI: 10.3389/fnins.2017.00661. (*Shared first authorship).
- Bonemei, R.*, Costantino, A. I.*, Battistel, I. & **Rivolta, D.** (2017). The perception of (naked only) bodies and faceless heads relies on holistic processing: Evidence from the inversion effect. *The British Journal of Psychology*. DOI: 10.1111/bjop.12271 (* Shared first authorship).
- Negrini, M.*, Brkic, D.*, Pizzamiglio, S.*, Premoli, I. & **Rivolta, D.** (2017). Neurophysiological correlates of featural and spacing processing for face and non-face stimuli. *Frontiers in Psychology*, 8:333. DOI: 10.3389/fpsyg.2017.00333 (* Shared first authorship).
- Rivolta, D.**, Lawson, R. & Palermo, R. (2017). More than just a problem with faces: Altered body perception in a group of congenital prosopagnosics. *Quarterly Journal of Experimental Psychology*, 70(2), 276-286. DOI: 10.1080/17470218.2016.1173076.
- Premoli, I., Biondi, A., Carlesso, S., **Rivolta, D.** & Richardson, M.P. (2017). Lamotrigine and levetiracetam exert a similar modulation of TMS-evoked EEG potentials. *Epilepsia*, 58(1), 42-50. DOI: 10.1111/epi.13599.
- Premoli, I., Costantini, A., **Rivolta, D.**, Biondi, A. & Richardson, M.P. (2017). The effect of lamotrigine and levetiracetam on TMS-evoked EEG responses depends on stimulation intensity. *Frontiers in Human Neuroscience*, 11:585. DOI: 10.3389/fnins.2017.00585.
- Palermo, R., Rossion, B., Rhodes, G., Laguesse, R., Tez, T., Hall, B., Albonico A., Malaspina, M., Daini, R., Irons, J., Al-Janabi, S., Taylor, L., **Rivolta, D.** & McKone, E. (2017). Do people have insight into their face recognition abilities? *Quarterly Journal of Experimental Psychology*, 70(2), 2018-233. DOI: 10.1080/17470218.2016.1161058.
- Grent-t-Jong, T.*, **Rivolta, D.***, Sauer, A., Singer, W., Wibral, M. & Uhlhaas, P. (2016). MEG-measured visually induced gamma-band oscillations in chronic schizophrenia: Evidence for impaired generation of rhythmic activity in ventral stream networks. *Schizophrenia Research*. (* shared first-authorship). DOI: <http://dx.doi.org/10.1016/j.schres.2016.06.003>.
- Barbieri M.*, Negrini, M.*, Nitsche M. A. & **Rivolta D.** (2016). Anodal-tDCS over the human right occipital cortex enhances the perception and memory of both faces and objects. *Neuropsychologia* 81, 238-244 (* Shared first authorship). DOI: 10.1016/j.neuropsychologia.2015.12.030.
- White, D., **Rivolta, D.**, Burton, A.M., Al-Janabi, S. & Palermo, R. (2016). Face matching impairments in developmental prosopagnosia. *Quarterly Journal of Experimental Psychology*, 70(2), 287-297. DOI: 10.1080/17470218.2016.1174277.
- Rivolta, D.**, Puce, A., Williams, M. A. (2016). Editorial on “Facing the other: Novel theories and methods in face perception research”. *Frontiers in Human Neuroscience* 10:32. DOI: 10.3389/fnhum.2016.00032.
- Rivolta, D.**, Heidegger, T., Scheller, B., Sauer, A., Schaum, M., Birkner, K., Singer, W., Wibral, M. & Uhlhaas, P.J. (2015). Ketamine dysregulates the amplitude and connectivity of high-frequency oscillations in cortical-subcortical networks in Humans: Evidence from resting-state MEG-recordings. *Schizophrenia Bulletin* 41(5), 1105-1114. DOI: 10.1093/schbul/sbv051.
- Rivolta, D.**, Castellanos, N., Stawowsky, C., Helbling, S., Wibral, M., Grützner, C., Koethe, D., Birkner, K., Kranaster, L., Enning, F., Singer, W., Leweke, M. & Uhlhaas, P. J (2014). Source-reconstruction of event-related fields reveals hyper- and hypofunction of cortical circuits in antipsychotic-naïve, first episode schizophrenia patients during Mooney-face processing. *Journal of Neuroscience* 34(17), 5909-5917. DOI: 10.1523/JNEUROSCI.3752-13.2014.

- Rivolta, D.**, Woogardt, A., Butcho, M., Schmalzl, L., Palermo, R., & Williams, M. A. (2014). Multi-voxel pattern analysis (MVPA) reveals abnormal fMRI activity in both “core” and “extended” face network in congenital prosopagnosia. *Frontiers in Human Neuroscience* 8:925. DOI: 10.3389/fnhum.2014.00925.
- Premoli, I., **Rivolta, D.**, Espenhahn, S., Castellanos, N., Belardinelli, Ziemann, U. & Müller-Dahlhaus, F. (2014). Characterization of GABAB-receptor mediated neurotransmission in the human cortex by paired-pulse TMS-EEG. *NeuroImage* 103, 152-162. DOI: 10.1016/j.neuroimage.2014.09.028.
- Premoli, I., Castellanos, N., **Rivolta, D.**, Belardinelli, P., Bacho, R., Zipser, C., Espenhahn, S., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (2014). TMS-EEG signatures of GABAergic neurotransmission in the human cortex. *Journal of Neuroscience* 34(16), 5603-5612. DOI: <https://doi.org/10.1523/JNEUROSCI.5089-13.2014>
- Connors, M. H., Barnier, A. J., Coltheart, M., Langdon, R., Cox, R. E. **Rivolta, D.**, & Halligan, P. W. (2014). Using hypnosis to disrupt face processing: Mirrored-self misidentification delusion and different visual media. *Frontiers in Human Neuroscience* 8:361. DOI: 10.3389/fnhum.2014.00361.
- Grützner, C., Wibral, M., Sun, L., **Rivolta, D.**, Maurer, K., Singer, W. & Uhlhaas, P. J. (2013). Deficits in high- (> 60 Hz) gamma band oscillations during visual processing in schizophrenia. *Frontiers in Human Neuroscience* 7:88. DOI: 10.3389/fnhum.2013.00088.
- Sun, L. *, Castellanos, N. *, Grützner, C. *, Koethe, D., **Rivolta, D.**, Wibral, M., Cranaser, L., Singer, W., Leweke M. F. & Uhlhaas, P. J. (2013). Evidence for dysregulated high-frequency oscillations during sensory processing in Medication-Naïve, First Episode Schizophrenia. *Schizophrenia Research*, 150(2-3), 519-525 (* Shared first authorship). DOI: 10.1016/j.schres.2013.08.023.
- Rivolta, D.**, Palermo, R. & Schmalzl, L. (2013). What is overt and what is covert in congenital prosopagnosia? *Neuropsychology Review* 23(2), 111-116. DOI: 10.1007/s11065-012-9223-0.
- Sedda, A. *, **Rivolta, D.** *, Scarpa, P., Burt, M., Frigerio, E., Zanardi, G., Piazzini, A., Turner K., Canevini, M. P., Francione, S., Lo Russo, G. & Bottini, G. (2013). Ambiguous emotion recognition in temporal lobe epilepsy: The role of expression intensity. *Cognitive, Affective and Behavioral Neuroscience* 13(3), 452-463. DOI: 10.3758/s13415-013-0153-y (* Shared first authorship).
- Rivolta, D.**, Palermo, R., Schmalzl, L., & Coltheart, M. (2012). Covert face recognition in congenital prosopagnosia: A Group Study. *Cortex* 48(3), 344-352. DOI: 10.1016/j.cortex.2011.01.005.
- Rivolta, D.**, Schmalzl, L., Palermo, R., & Williams, M. A. (2012). Investigating the features of the M170 in congenital prosopagnosia. *Frontiers in Human Neuroscience*. 6:45. DOI: 10.3389/fnhum.2012.00045.
- Rivolta, D.**, Palermo, R., Schmalzl, L., Williams, M. A. (2012). An early category-specific neural response for the perception of both places and faces. *Cognitive Neuroscience* 3(1), 45-51. DOI: 10.1080/17588928.2011.604726.
- Palermo, R., **Rivolta, D.**, Wilson, C.E., & Jeffery, L. (2011). Adaptive face space coding in congenital prosopagnosia: Typical figural aftereffects but abnormal identity aftereffects. *Neuropsychologia* 49(14), 3801-3812. DOI: 10.1016/j.neuropsychologia.2011.09.039.
- Palermo, R., Willis, M., **Rivolta, D.**, McKone, E., Wilson, C. E. & Calder, A. J. (2011). Impaired holistic coding of facial expression and facial identity in congenital prosopagnosia. *Neuropsychologia* 49(5), 1226-1235. DOI: 10.1016/j.neuropsychologia.2011.02.021.
- McKone, E., Hall, A., Pidcock, M., Palermo, R., Wilkinson, R. B., **Rivolta, D.**, Yovel, G., Davis, J. M., O'Connor, K. B. (2011). Face ethnicity and measurement reliability affect face recognition performance in developmental prosopagnosia: Evidence from the Cambridge Face Memory Test - Australian. *Cognitive Neuropsychology* 28(2), 109-146. DOI: 10.1080/02643294.2011.616880.
- Rivolta, D.**, Schmalzl, L., Coltheart, M., & Palermo, R. (2010). Semantic information can facilitate covert face recognition in congenital prosopagnosia. *Journal of Clinical and Experimental Neuropsychology* 32(9), 1002-1016. DOI: 10.1080/13803391003662710.

Bowles, D. C., McKone, E., Dawel, A., Duchaine, B., Palermo, R., Schmalzl, L., **Rivolta, D.**, Wilson C. E., & Yovel, G. (2009). Diagnosing prosopagnosia: Effects of aging, sex, and participant-stimulus ethnic match on the Cambridge Face Memory Test and Cambridge Face Perception Test. *Cognitive Neuropsychology*, 26(5), 423-455. DOI: 10.1080/02643290903343149.

Books and books chapters

Rivolta, D. (2013). *Prosopagnosia. When all faces look the same*. Ed. Springer-Verlag, Berlin & Heidelberg, Germany.

Rivolta, D. (2012). *Prosopagnosia. Un mondo di facce uguali*. Ed. Ferrari Sinibaldi, Milan, Italy.

Papers under review / in preparation

Palmisano, A., Bossi, F., Barlabà, C., Febbraio, F., Loconte, R., Lupo, A., Nitsche, M.A. & **Rivolta, D.** (in prep). *Neuromodulation (tDCS) of the left dorsolateral-prefrontal-cortex (L-DLPFC) flattens gender differences in the sensitivity to facial expression intensities*.

Palmisano, A., Giulio, G., Conti, A., D'Elia, V., Nitsche, M.A. & **Rivolta, D.** (in prep). *The neurophysiological bases of pareidolia*.

Bossi, F., Ricciardelli, P. & **Rivolta, D.** (in prep). *Human body perception: Neural oscillations related to static and dynamic stimuli*.

Published abstracts

Gomis Vicent, E., Thoma, V., Turner, J., **Rivolta, D.** & Bowden-Jones, H. (2019). Transcranial direct current stimulation (tDCS) of dorsolateral versus ventromedial prefrontal cortex: impact on gambling task performance [Abstract]. *Brain Stimulation* 12(2), 557-558. DOI: <https://doi.org/10.1016/j.brs.2018.12.915>.

Rivolta, D., Costantino, A. I., Titoni, M., Bossi, F., Nitsche M. A. (2017). Cathodal-tDCS over the human right occipital cortex induces the “Other-Race” effect [Abstract]. *Perception*.

Grent-t-Jong, T., Navarro Schroeder, T., Sun, L., Grützner, C., Leweke, F. M., **Rivolta, D.**, Sauer, A., Wibral, M., Singer, W. & Uhlhaas, P. J. (2016). Thalamic and hippocampus driven alterations in large-scale neural oscillations differ across the different illness stages of schizophrenia: An MEG resting-state study [Abstract]. *Schizophrenia Research*.

Zipser, C., Premoli, I., Castellanos, N., **Rivolta, D.**, Belardinelli, P., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (2016). Cortical excitability and connectivity in early RRMS using TMS-EEG [Abstract]. *Clinical Neurophysiology* 127(3), e122.

Premoli, I., Castellanos, N., **Rivolta, D.**, Belardinelli, P., Zipser, C., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (2014). TMS-EEG signatures of GABAergic neurotransmission [Abstract]. *Clinical Neurophysiology* 124(10), e153.

Rivolta, D., Sauer A., Heidegger T., Birkner K., Scheller B., Wibral M., Singer W. & Uhlhaas P.J. (2013). Visually induced MEG gamma-band oscillations in a human pharmacological model of psychosis [Abstract]. *Perception*, 42 (Suppl.), 179.

Premoli, I., **Rivolta, D.**, Castellanos, N., Zipser, C., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (2013). Pharmacological characterization of TMS-evoked EEG responses by positive modulators at the GABA-A receptor [Abstract]. *Clinical Neurophysiology*, 124(10), e153.

Rivolta, D., Sauer, A., Wibral, M., Sun, L., Singer, W. & Uhlhaas, P. J. (April 2012). Gamma oscillations in MEG-data in chronic schizophrenia patients and during ketamine administration: Evidence for the role of NMDA-receptor deficits in the pathophysiology of schizophrenia [Abstract]. *Schizophrenia Research*, 136 (Suppl. 1), S328.

Rivolta, D., Schmalzl, L., Palermo, R. & Williams, M. A. (2011). Multi-voxel pattern analysis of fMRI data reveals abnormal anterior temporal lobe activity in congenital prosopagnosia [Abstract]. *Perception*, 40 (Suppl.), 163.

Palermo, R., **Rivolta, D.**, Wilson, C. E., Jeffery, L. (2011). Abnormal adaptive coding of identity in congenital prosopagnosia [Abstract]. *Journal of Vision*, September 23, 2011 11(11): 572, (DOI:10.1167/11.11.572).

Palermo, R., Willis, M., **Rivolta, D.**, McKone, E., Wilson, C.E. & Calder, A.J (2011). Impaired holistic coding of facial expression and facial identity in congenital prosopagnosia [Abstract]. *Australian Journal of Psychology*.

Rivolta, D., Williams, M. A., Schmalzl, L., & Palermo, R (2010). Faces and Places in the Brain: An MEG Investigation [Abstract]. *Journal of Vision*, August 2, 2010 10(7): 1266, (DOI:10.1167/10.7.1266).

Palermo, R., Willis, M., **Rivolta, D.**, Wilson, C.E. and Calder, A.J. (2010). Holistic perception of facial expression in congenital prosopagnosia [Abstract]. *Journal of Vision*. (DOI:10.1167/10.7.591).

Rivolta, D., Palermo, R., Schmalzl, L., & Coltheart, M. (2009). The cognitive utility of investigating covert face recognition in congenital prosopagnosia [Abstract]. In N. Voudouris and V. Mrowinski (Eds.), *Combined Abstracts of 2009 Australian Psychology Conferences* (pp. 46). Melbourne, Australia: The Australian Psychological Society.

Palermo, R., Jeffery, L., **Rivolta, D.**, and Wilson, E. (2009). Are adaptive face coding mechanism compromised in congenital prosopagnosia? [Abstract]. In N. Voudouris and V. Mrowinski (Eds.), *Combined Abstracts of 2009 Australian Psychology Conferences* (pp. 43). Melbourne, Australia: The Australian Psychological Society.

Rivolta, D., Palermo, R., & Coltheart, M. (2008). Covert face recognition in congenital prosopagnosia [Abstract]. *Australian Journal of Psychology*, 60 (Suppl. 1), 96.

CONFERENCE PRESENTATIONS, INVITED TALKS AND OTHER PRESENTATIONS

Conference presentations

Palmisano, A., Bossi, F., Barlabà, C., Febbraio, F., Loconte, R., Lupo, A., Nitsche, M.A. & **Rivolta, D.** (September 2020). *Neuromodulation (tDCS) of the left dorsolateral-prefrontal-cortex (L-DLPFC) flattens gender differences in the sensitivity to facial expression*. Poster presented at the Brainbox initiative.

Gonzalez-Perez, M., Wakui, E., Thoma, V., Nitsche, M.A. & **Rivolta, D.** (September 2019). *Transcranial alternating current stimulation (tACS) at 40 Hz enhances face and object perception*. Poster presented at the British Association for Cognitive Neuroscience (BACN) conference, Cambridge, UK.

Gonzalez-Perez, M., Wakui, E., Thoma, V., Nitsche, M.A. & **Rivolta, D.** (June 2019). *Transcranial alternating current stimulation (tACS) at 40 Hz enhances face and object perception*. Poster presented at the BrainSTIM conference, Rome, Italy.

Thoma, V., Edgumbe, D. R., **Rivolta, D.**, Nitsche, M.A. (June 2019). *Brain stimulation of right dorso-lateral prefrontal cortex increases cognitive reflection performance*. Poster presented at the BrainSTIM conference, Rome, Italy.

Rivolta, D., Costantino, A. I., Titoni, M., Bossi, F. & Nitsche, M. (August 2017). *Cathodal-tDCS over the human right occipital cortex induces the "Other-Race" effect*. Poster presented at the 40th European Conference on Visual Perception (ECVP), Berlin, Germany.

Bossi, F., **Rivolta, D.**, Pizzamiglio, S., Balaban, S., Gallucci, M. & Ricciardelli, P. (September 2017). *Neural oscillations involved in face and body inversion effects*. Poster presented at the 20th European Society for Cognitive Psychology (ESCoP), Postdam, Germany.

Rivolta, D. (February 2017). *Schizophrenia, neural oscillations and pharmacological models of psychosis*. Paper presented at the 1st National Conference on Neuropsychopathology, Padua, Italy.

Rivolta, D., Barbieri, M., Negrini, M. & Nitsche, M.A. (November 2016). *Anodal but not cathodal stimulation (tDCS) over the human right occipital cortex modulates visual cognition*. Poster presented at the 46rd annual meeting of the Society for Neuroscience (SfN), San Diego, California, US.

Premoli, I., Biondi, A., **Rivolta, D.** & Richardson, M.P. (November 2016). *Lamotrigine and levitacem exert similar modulation of TMS-evoked EEG potentials*. Poster presented at the 46rd annual meeting of the Society for Neuroscience (SfN), San Diego, California, US.

Grent-t-Jong, T., Navarro Schroeder, T., Sun, L., Grützner, C., Leweke, F. M., **Rivolta, D.**, Sauer, A., Wibral, M., Singer, W. & Uhlhaas, P. J. (June 2016). *Thalamic and hippocampus driven alterations in large-scale neural oscillations differ across the different illness stages of schizophrenia: An MEG resting-state study*. Poster presented at the 5th Biennial Schizophrenia International Research Society Conference (SIRS), Florence, Italy.

Zipser, C., Premoli, I., Castellanos, N., **Rivolta, D.**, Belardinelli, P., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (September 2015). *Cortical excitability and connectivity in early RRMS using TMS-EEG*. Poster presented at the 15th European Congress on Clinical Neurophysiology (EECN), Brno, Czech Republic.

Rivolta, D. (March 2015). *Boundaries of face recognition*. Symposium hosted at the International Convention of Psychological Science (ICPS), Amsterdam, The Netherlands.

Rivolta, D. (September 2014). *Multi-voxel pattern analysis of fMRI data reveals abnormal 'core' and 'extended' face activity in congenital prosopagnosia*. Presentation given at the University of East London (UEL) Research Day, UEL, London, UK.

Premoli, I., Castellanos, N. P., **Rivolta, D.**, Belardinelli, P., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (March 2014). *TMS-EEG signatures of GABAergic neurotransmission*. Poster presented at the International Clinical Conference of Neurophysiology, Berlin, Germany.

Rivolta, D., Sauer, A., Heidegger, T., Birkner, K., Scheller, B., Wibral, M., Singer, W. & Uhlhaas P. J. (November 2013). *Effects of Ketamine on resting-state and task-related neural oscillations in MEG-data*. Poster presented at the 43rd annual meeting of the Society for Neuroscience (SfN), San Diego, California, US.

Premoli, I., Castellanos, N. P., **Rivolta, D.**, Zipser, C., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (November 2013). *Pharmacological characterization of TMS-evoked EEG responses by positive modulators at the GABA-A receptor*. Poster presented at the 43rd annual meeting of the Society for Neuroscience (SfN), San Diego, California, US.

Rivolta, D., Sauer, A., Heidegger, T., Birkner, K., Scheller, B., Wibral, M., Singer, W. & Uhlhaas P. J. (August 2013). *Visually-induced MEG gamma-band oscillations in a human pharmacological model of psychosis*. Poster presented at the 36th European Conference on Visual Perception (ECVP), Bremen, Germany.

Rivolta, D., Sauer, A., Heidegger, T., Birkner, K., Scheller, B., Wibral, M., Singer, W. & Uhlhaas P. J. (June 2013). *Effects of NMDA-receptor hypofunctioning on MEG gamma-band oscillations*. Poster presented at the 11th World Congress of Biological Psychiatry, Kyoto, Japan.

Premoli, I., **Rivolta, D.**, Castellanos, N. P., Zipser, C., Heidegger, T., Müller-Dahlhaus, F. & Ziemann, U. (March 2013). *Pharmacological characterization of TMS-evoked EEG responses by positive modulators at the GABA-A receptor*. Paper presented at the 5th International Conference on Non-Invasive Brain Stimulation, Leipzig, Germany.

Zipser, C., Premoli, I., **Rivolta, D.**, Castellanos, N.P., Dieter, J., Heidegger, T. & Ziemann, U. (March 2013). *TEP propagation in early RRMS patients and controls: A TMS-EEG study*. Paper presented at the 57th DGKN meeting, Leipzig, Germany.

Sedda, A., **Rivolta, D.**, Scarpa, P., Burt, M., Piazzini, A., Canevini, M.P., Francione, S. & Bottini, G. (January 2013). *Ambiguous emotions recognition in temporal lobe epilepsy: The role of expression*

intensity. Paper presented at the 31st European Workshop on Cognitive Neuropsychology, Bressanone, Italy

Rivolta, D., Sauer, A., Heidegger, T., Birkner, K., Scheller, B., Melloni, L., Wibral, M., Singer, W. & Uhlhaas P. J. (October 2012). *Effects of ketamine on gamma-band oscillations in MEG data: A comparison with chronic schizophrenia*. Poster presented at the 42nd annual meeting of the Society for Neuroscience (SfN), New Orleans, Louisiana, US.

Zipster, C. M., Premoli, I., Castellanos, N. P., **Rivolta, D.**, Heidegger, T., Gamboa, O. L., Ziemann, U. (June 2012). *Cortico-cortical connectivity in multiple sclerosis patients and healthy controls: A TMS-EEG study*. Poster presented at the Main and Rhein meeting, Frankfurt, Germany.

Rivolta, D., Sauer, A., Wibral, M., Sun, L., Singer, W. & Uhlhaas, P. J. (April 2012). *Gamma oscillations in MEG-data in chronic schizophrenia patients and during ketamine administration: Evidence for the role of NMDA-receptor deficits in the pathophysiology of schizophrenia*. Poster presented at the 3rd Biennial Schizophrenia International Research Society Conference (SIRS), Florence, Italy.

Rivolta, D., Schmalzl, L., Palermo, R., & Williams, M. A. (2011, August). *Multi-voxel pattern analysis of fMRI data reveals abnormal anterior temporal lobe activity in congenital prosopagnosia*. Poster presented at the 34th annual meeting of the European Conference on Visual Perception (ECVP), Toulouse, France.

Palermo, R., **Rivolta, D.**, Wilson, C. E., Jeffery, L. (2011, May). *Abnormal adaptive coding of identity in congenital prosopagnosia*. Poster session presented at the 11th Annual Meeting of the Visual Sciences Society (VSS), Naples, Florida.

Palermo, R., Willis, M., **Rivolta, D.**, McKone, E., Wilson, C.E. & Calder, A.J (2011, April). *Impaired holistic coding of facial expression and facial identity in congenital prosopagnosia*. Paper presented at the 38th Australasian Experimental Psychology Conference (EPC), Auckland, New Zealand.

Rivolta, D. (2010, November). *Functional abnormality of the anterior temporal lobe in congenital prosopagnosia*. Presentation given at the High Degree Research Showcase, Macquarie University, Sydney, Australia.

Palermo, R., Willis, M., **Rivolta, D.**, Wilson, C. E., & Calder, A.J. (2010, June). *Holistic coding of identity and expression in congenital prosopagnosia*. Paper presented at the International Society for Behavioral Neuroscience, Collioure, France.

Rivolta, D., Williams, M. A., Schmalzl, L., & Palermo, R. (2010, May). *Faces and Places in the Brain: An MEG Investigation*. Poster session presented at the 10th Annual Meeting of the Visual Sciences Society (VSS), Naples, Florida.

Palermo, R., Willis, M., **Rivolta, D.**, Wilson, C.E. and Calder, A.J. (2010, May). *Holistic perception of facial expression in congenital prosopagnosia*. Poster session presented at the 10th Annual Meeting of the Visual Sciences Society (VSS), Naples, Florida.

Rivolta, D. (2009, December). *Faces and Places in the Brain: An MEG Investigation*. Presentation given at the High Degree Research Showcase, Macquarie University, Sydney, Australia.

Rivolta, D., Palermo, R., Schmalzl, L., & Coltheart, M. (2009, April). *The cognitive utility of investigating covert face recognition in congenital prosopagnosia*. Paper presented at the 36th Australasian Experimental Psychology Conference (EPC), Wollongong, Australia.

Palermo, R., Jeffery, L., **Rivolta, D.**, and Wilson, E. (2009, April). *Are adaptive face coding mechanism compromised in congenital prosopagnosia?* Paper presented at the 36th Australasian Experimental Psychology Conference (EPC), Wollongong, Australia.

Rivolta, D., Palermo, R., Williams, M., & Coltheart, M. (2008, December). *Covert recognition in congenital prosopagnosia*. Presentation given at the Postgraduate Research Festival, Macquarie University, Australia.

Toraldo, A., Manfredi, V., Curti, I., **Rivolta, D.**, Bosoni, S., & Pistarini, C. (2008, September). *"Anisometry": Perceptual or visuo-motor?* Poster session presented at the first meeting of the Federation of the European Societies of Neuropsychology (ESN), Edinburgh, Scotland.

Rivolta, D., Palermo, R., & Coltheart, M. (2008, March). *Covert face recognition in congenital prosopagnosia*. Poster session presented at the 35th Australasian Experimental Psychology Conference, Fremantle, Australia.

Toraldo, A., Curti, I., **Rivolta, D.**, Manfredi, V., Bosoni, S., & Pistarini, C. (2007, April). *The misprojection hypothesis of visual stimuli: Performance of patients with right brain damage*. Paper presented at the SIRN (Societa' Italiana di Riabilitazione Neurologica), Naples, Italy.

Paganelli, F., Toraldo, A., **Rivolta, D.**, Curti, I., & Coltheart, M. (2007, January). *Italian stress assignment in polysyllabic words*. Poster session presented at the European Workshop on Cognitive Neuropsychology, Brixen, Italy.

Zanardi, G., Basilico, S., Sedda, A., Daledo, S., Frigerio, E., **Rivolta, D.**, Pasotti, F. & Bottini, G. (2006, May). *Facial emotion perception in Alzheimer's disease*. Poster session presented at the ITINAD (Italian Interdisciplinary Network on Alzheimer Disease), Rome, Italy.

Invited talks

Rivolta D. (2019, November). *Cognition, Neural Oscillations, Neuromodulation: Theoretical and clinical aspects*. Talk given at the Center for Neurodegenerative Diseases and the Aging Brain, Department of Clinical Research in Neurology, Pia Fondazione Cardinale G Panico, Tricase, Italy.

Rivolta D. (2019, February). *NMDA-receptor and the pathophysiology of schizophrenia*. Talk given at the Psychiatry unit of the University of Bari Aldo Moro, Bari, Italy.

Rivolta D. (2018, February). *Internationalization in higher education*. Talk given at the "Stati generali" of the University of Bari Aldo Moro, Bari, Italy.

Rivolta D. (2016, December). *Typical and atypical aspects of human face recognition*. Talk given at the University of Bari Aldo Moro, Bari, Italy.

Rivolta D. (2016, July). *Prosopagnosia*. Talk given at the Ordine degli psicologi del Lazio, Roma, Italy.

Rivolta D. (2016, June). *Prosopagnosia*. Talk given at the Casa della Psicologia (Ordine degli psicologi della Lombardia), Milano, Italy.

Rivolta D. (2016, June). *Typical and atypical aspects of human face recognition*. Talk given at the Casa di Cura Privata del Policlinico, Milano, Italy.

Rivolta D. (2016, May). *Typical and atypical aspects of human face recognition: Behavioural and neural features*. Talk given at the Leibniz Research Center for Working Environment and Human Factors (IfADo), Dortmund, Germany.

Rivolta, D. (2013, February). *Cognitive and neural features of congenital prosopagnosia*. Talk given at the Department of Human Perception, Cognition and Action, Max Planck Institute for Biological Cybernetics, Tübingen, Germany.

Rivolta, D. (2012, May). *Prosopagnosia: Un mondo di facce uguali*. Book presentation given at the "FUTURA" meeting, Cultural association "Asilo Bianco", Ameno, Italy.

Rivolta, D. (2011, December). *Neuronal synchronization and perceptual organization in schizophrenia*. Talk given at the NeFF symposium, Goethe University, Frankfurt am Main, Germany.

Williams, M. A. & **Rivolta, D.** (2010, December). *Neural underpinnings of face perception*. Keynote address given at the Centre for Perception and Cognitive Neuroscience (CPCN), School of Psychology, University of Queensland, QLD, Australia.

Rivolta, D. (2010, June). *Congenital prosopagnosia: Insights into behavioural and MEG features*. Paper presented at the Neurology & Imaging of Cognition Lab (NIC), University of Geneva, Geneva, Switzerland.

Rivolta, D. (2010, June). *Congenital prosopagnosia: Insights into behavioural and MEG features*. Paper presented at the Department of Psychology, University of Glasgow, Glasgow, Scotland.

Rivolta, D. (2010, May). *Congenital prosopagnosia: Insights into behavioural and MEG features*. Paper presented at the Kanwisher Lab, Massachusetts Institute of Technology, MIT, Cambridge, Massachusetts.

Rivolta, D. (2006, February). *Emotional decoding in patients with Temporal and Fronto-Temporal lobe epilepsy*. Paper presented at the S.P.A.N. (Societa' italiana di Psicologi dell'Ambito Neuropsicologico), Milan, Italy.

GRANTS

- Italian Ministry of research and education, "Attraction and international mobility (AIM)" call (2019), Cassibba, R., **Rivolta, D.**, Blasi, G. & Bertolino, A. (€179,000).
 - London Scholars Research Grant (2016), "Face Blindness: Identifying it in early educational environments", **Rivolta D.** (£10,000).
 - University of East London (UEL) Capital Fund (2015), "Functional Near Infrared Spectroscopy (fNIRS), Oculus Rift DK2 for Immersive Virtual Reality, and Medoc TSA-II for Quantitative Sensory Testing (QST)", Martini, M., **Rivolta, D.** & Fu, C. (£50,000).
 - University of East London (UEL) International Research Collaboration Fund (IRCF) (2014), **Rivolta D.** (£3,000).
 - University of East London (UEL) Research Intern Grant (2014), **Rivolta D.** (£2,000).
 - Deutscher Akademischer Austausch Dienst (DAAD) Travel Grant (2013), **Rivolta D.** (€ 2,200)
 - Macquarie University international Research Excellence Scholarship (iMQRES) (2007-2010), **Rivolta, D.** (A\$ 75,000)
 - Macquarie University Postgraduate Research Fund (PGRF) (2010), **Rivolta, D.** (A\$ 4,000)
 - Macquarie Centre for Cognitive Science (MACCS) Postgraduate Grant (2007-2010), **Rivolta, D.** (cumulative of A\$ 9000)
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AWARDS

- Macquarie University's *Higher Degree Research Excellence Award* (2010).
 - Travel Award from the *Australasian Experimental Psychology Conference*, Fremantle, Australia (2008): A\$ 200.
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CONTINUING SCIENTIFIC FORMATION

- "Google Machine learning crash course". Google, London (UK) (28th October 2017).
- "Summer Institute in Cognitive Neuroscience" (Brain Camp). University of California Santa Barbara (UCSB), Santa Barbara, US (22nd June – 04th July 2015).
- "Magstim Neuroscience Conference 2014". Summer school organized by Magstim®, University of Oxford, Oxford, UK (10th – 11th May 2014).
- "Alpha: From mechanism to cognition". Workshop organized by the Ernst Strüngmann Institute for Neuroscience (ESI), Frankfurt, Germany (25th – 26th February 2013).
- "Orienting of Attention: Neural implementation, underlying mechanisms and clinical implications". Meeting organised by the European Science Foundation (ESF), Tübingen, Germany (2nd – 3rd November 2012).
- "FieldTrip workshop". Workshop organized by the Ernst Strüngmann Institute for Neuroscience (ESI), Frankfurt, Germany (18th – 20th June 2012).

SUPERVISION & MENTORING

Mentoring

- *Athena SWAN* mentor of Surana Pradnya (PhD student at the School of Psychology of the University of East London, UEL).

Current PhD Supervisions

- *Ms Annalisa Palmisano* (PhD student). Topic: "Exploring the boundaries of neuromodulation efficacy in the lab and in clinical settings". [Role: Director of studies]
- *Ms Montserrat Gonzales Perez* (PhD student). Topic: "Neuromodulation of visual cognition: The importance of neural oscillations for typical face perception". [Role: Director of studies]
- *Ms Elena Gomis Vicent* (PhD student). Topic: "Clinical interventions with neuromodulation: The efficacy in problem gambling". [Role: Third supervisor]

Completed PhD Supervisions

- *Dr Daniel Edgcumbe*: Ph.D. completed at the School of Psychology of the University of East London (UEL), London, UK (2019). Thesis title: "Transcranial direct current stimulation and decision-making: The neuromodulation of cognitive reflection". Degree awarded in 2018. [Role: Third supervisor]
- *Dr Isabella Premoli*: Ph.D. completed at the Department of Neurology, University of Tübingen, Germany (2015). Thesis title: "Characterization of new biological markers for cortex excitability and connectivity by the use of Pharmac-TMS-EEG". Degree awarded in 2015. [External supervisor]

FURTHER INFORMATION

External Affiliations

2011 – 2014 *Honorary Associate* of the Department of Cognitive Science, Macquarie University, Sydney, Australia.

Current external academic collaborations

- *Prof Michael A. Nitsche*, Department of Psychology and Neuroscience, Leibniz Research Center for Working Environment and Human Factors (*IfADo*), Dortmund, Germany.
- *Prof Emiliano Santarnecchi*, Harvard University, Boston, US.
- *Prof Romina Palermo*, School of Psychological Science, The University of Western Australia, Crawley, WA, Australia.
- *Dr Marcus Hinchcliffe*, Department of Genetics, University of Sydney, Sydney, NSW, Australia.

Lab visits/Sabbaticals

October – December 2013: Sabbatical at the Department of Neurophysiology of the *Max Planck Institute for Brain Research*, Frankfurt am Main, Germany. Lab director: Prof Wolf Singer.

April – October 2013: Visiting scientist at the Division of Neuropsychology, Department of Neurology, *University of Tübingen*, Tübingen, Germany. Lab director: Prof Hans-Otto Karnath.

September 2012: Visiting scientist at the Laboratory of Cognitive and Computational Neuroscience, Center for Biomedical Technology, *Universidad Politécnica de Madrid*, Madrid, Spain. Lab director: Prof Fernando Maestù.

Memberships

2012 - present: Registration to the psychology board of Lombardia, Italy

2013 - 2016: Society for Neuroscience (SfN)

2012 - 2013: Schizophrenia international Research Society (SIRS)

2009 - 2011: Vision Sciences Society (VSS)

2008 - 2011: Australasian Experimental Psychology Society (EPC)

2005 - 2007: S.P.A.N. (Società italiana di Psicologi dell'ambito Neuropsicologico)

Editing / Peer-revision

- **Associate editor** for *Heliyon*
- **Guest editor** for *Frontiers in Human Neuroscience*
- **Casual reviewer** for *Schizophrenia Bulletin*, *Scientific Reports*, *European Child & Adolescent Psychiatry*, *Neuropsychopharmacology*, *NeuroImage*, *Cortex*, *Social, Cognitive and Affective Neuroscience (SCAN)*, *Neuropsychology*, *Frontiers in Human Neuroscience*, *Frontiers in Psychology*, *Frontiers in Neuroscience*, *Neuropsychology Rehabilitation*, *i-Perception*, *Brain Imaging and Behavior*, *Neuropsychologia*, *Annals of Neurology* and *PLoS One*.
- **Reviewer** for the *Biotechnology and Biological Science Research Council (BBSRC)* and *Marsden Fund*.

Non-academic collaborations

- *Isabella Borghese* (novel writer and journalist): Scientific advisor for her book on prosopagnosia entitled: "*Gli amori infelici non finiscono mai*" (ed. Giulio Perrone Editore, Rome, Italy).
- *Andrea Martelli* (movie director): Scientific advisor for the short movie entitled "*De Visu*".

Media Appearance

Interview for "Il fatto quotidiano" on the topic of "brain drain". November, 2017.

Article for the scientific magazine "Mente e cervello" (title: La scienza dei volti). July 2017.

Interview for the "Corriere della Sera" on prosopagnosia (title: C'è chi proprio non riesce a ricordarsi le facce). 19th February 2017.

Book review of "*Prosopagnosia: Un mondo di facce uguali*" published on the newspaper "Le monde diplomatique" (Italian edition). 19th December 2013.

Book review of "*Prosopagnosia: Un mondo di facce uguali*" published online on "L'almanacco della scienza" (Italy). 30th October 2013.

Personal Websites

University of Bari Aldo Moro: <https://www.uniba.it/docenti/rivolta-davide>

Research Gate: https://www.researchgate.net/profile/Davide_Rivolta

LinkedIn: <https://www.linkedin.com/pub/rivolta-davide/52/a70/80a>

Prosopagnosia: <https://sites.google.com/site/conoscereprosopagnosia/home>

Davide Rivolta
