

Jordi Manuello, PhD
Curriculum vitae

Name and surname: Jordi Manuello

Citizenship: Italian

Place and date of birth: Turin, Italy, 01/01/1991

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ORCID: 0000-0002-9928-0924

Current position

- From 05/2021 post-doc researcher, Department of Psychology, University of Turin, Italy.
- From 2023 contract faculty, University of Turin, Italy (Detailed courses below).

Education

- 2021 PhD in Neuroscience, XXXII cycle, at University of Turin.
- 2016 Master Degree in Sciences of Body and Mind at University of Turin, 109/110
- 2014 Bachelor Degree in Psychological Techniques and Sciences at University of Turin, 103/110.
- 2011 Bachelor Degree in Percussions at Conservatory “G.Verdi” of Turin, 110/110.
- 2010 Scientific High School.

Research experience

- From May 2022 member of Move’N’Brains research group, Department of Psychology, University of Turin, Italy
- From November 2019 to October 2020 academic visitor at NDCN Department (WIN) of Oxford University, UK, under the supervision of Prof. Gwenaëlle Douaud.
- From October 2017 to January 2018 research experience working with the group PNinsula (CTS-581), directed by Prof. Miguel Pérez García, at CIMCYC, University of Granada, Spain, under the supervision of Dr. Juan Verdejo-Román
- From July 2013 member of GCS-fMRI and FocusLab research groups, Department of Psychology, University of Turin, Italy

Publications

- Liloia D., **Manuello J.**, Costa T., Keller R., Nani A., Cauda F. (2023) “**Atypical Local Brain Connectivity in Pediatric Autism Spectrum Disorder? A Coordinate-Based Meta-Analysis of Regional Homogeneity Studies**”. *European Archives of Psychiatry and Clinical Neuroscience*. <https://doi.org/10.1007/s00406-022-01541-2>
- Gray J.P., **Manuello J.**, Alexander-Bloch A.F., Leonardo C., Franklin C., Choi K.S., Cauda F., Costa T., Blangero J., Glahn D.C., Mayberg H.S., Fox P.T. (2022) “**Co-alteration Network Architecture of Major Depressive Disorder: A Multi-modal Neuroimaging Assessment of Large-scale Disease Effects**”. *Neuroinformatics* <https://doi.org/10.1007/s12021-022-09614-2>
- Camasio A., Panzeri E., Mancuso L., Costa T., **Manuello J.**, Ferraro M., Duca S., Cauda F., Liloia D. (2022) “**Linking neuroanatomical abnormalities in autism spectrum disorder with gene expression of candidate ASD genes: a meta-analytic and network-oriented approach**”. *PLOS One* <https://doi.org/10.1371/journal.pone.0277466>

- Costa T., **Manuello J.**, Cauda F., Liloia D. (2022) “**Retrospective Bayesian evidence of null effect in two decades of Alzheimer’s disease clinical trials**”. *Journal of Alzheimer’s Disease* DOI: 10.3233/JAD-220942
- Liloia D., Crocetta A., Cauda F., Duca S., Costa T., **Manuello J.** (2022) “**Seeking Overlapping Neuroanatomical Alterations between Dyslexia and Attention-Deficit/Hyperactivity Disorder: A Meta-Analytic Replication Study**”. *Brain Sciences* <https://doi.org/10.3390/brainsci12101367>
- Bonelli C., Mancuso L., **Manuello J.**, Liloia D., Costa T., Cauda F. (2022) “**Sex differences in Brain Homotopic Co-activations: a meta-analytic study**”. *Brain Structure and Function* <https://doi.org/10.1007/s00429-022-02572-0>
- **Manuello J.**, Verdejo-Román J., Torres Espinola F., Escudero-Marín M., Catena A., Cauda F., Campoy C. (2022) “**Influence of gestational diabetes and pre-gestational maternal BMI on the brain of six years old offspring**”. *Pediatric Neurology* doi.org/10.1016/j.pediatrneurol.2022.05.005
- **Manuello J.**, Costa T., Cauda F., Liloia D. (2022) “**Six actions to improve detection of critical features for neuroimaging coordinate-based meta-analysis preparation**”. *Neuroscience & Biobehavioral Reviews* <https://doi.org/10.1016/j.neubiorev.2022.104659>
- **Manuello J.**, Mancuso L., Liloia D., Cauda F., Duca T., Costa T. (2022) “**A co-alteration parcelling of the cingulate cortex**”. *Brain Structure and Function* <https://doi.org/10.1007/s00429-022-02473-2>
- Mancuso L., Cavuoti-Cabanillas S., Liloia D., **Manuello J.**, Buzi G., Cauda F., Costa T. (2022) “**Tasks activating the Default Mode Network map multiple functional systems**”. *Brain Structure and Function* <https://doi.org/10.1007/s00429-022-02467-0>
- Liloia D., Cauda F., Uddin L.Q., **Manuello J.**, Mancuso L., Keller R., Nani A., Costa T. (2022) “**Revealing the Selectivity of Neuroanatomical Alteration in Autism Spectrum Disorder via Reverse Inference**”. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* <https://doi.org/10.1016/j.bpsc.2022.01.007>
- Ficco L., Mancuso L., **Manuello J.**, Teneggi A., Liloia D., Duca S., Costa T., Kovacs G., Cauda F. (2021) “**Disentangling predictive processing in the brain: a meta-analytic study in favour of a predictive network**”. *Scientific Reports* <https://doi.org/10.1038/s41598-021-95603-5>
- Cauda F., Nani A., Liloia D., Gelmini G., Mancuso L., **Manuello J.**, Panero M., Duca S., Zang Y., Costa T. (2021) “**Interhemispheric co-alteration of brain homotopic regions**”. *Brain Structure and Function* <https://doi.org/10.1007/s00429-021-02318-4>
- Costa T., **Manuello J.**, Ferraro M., Liloia D., Nani A., Fox P.T., Lancaster J., Cauda F. (2021) “**BACON: A tool for reverse inference in brain activation and alteration**”. *Human Brain Mapping* <https://doi.org/10.1002/hbm.25452>
- Liloia D., Mancuso L., Uddin L.Q., Costa T., Nani A., Keller R., **Manuello J.**, Duca S., Cauda F. (2021) “**Gray Matter Abnormalities Follow Non-Random Patterns of Co-Alteration in Autism: Meta-Connectomic Evidence**”. *NeuroImage: Clinical* <https://doi.org/10.1016/j.nicl.2021.102583>
- Liloia D., Brasso C., Cauda F., Mancuso L., **Manuello J.**, Costa T., Duca S., Rocca P. (2021) “**Updating and Characterizing Neuroanatomical Markers in High-Risk Subjects, Recently Diagnosed and Chronic Patients with Schizophrenia: A Revised Coordinate-Based Meta-Analysis**”. *Neuroscience & Biobehavioral Reviews* <https://doi.org/10.1016/j.neubiorev.2021.01.010>
- Nani A.¹, **Manuello J.**¹, Mancuso L., Liloia D., Costa T., Vercelli A., Duca S., Cauda F. (2021) “**The pathoconnectivity network analysis of the insular cortex: A morphometric fingerprint**”. *NeuroImage* doi.org/10.1016/j.neuroimage.2020.117481
- Cauda F., Nani A., Liloia D., **Manuello J.**, Premi E., Duca S., Fox P.T., Costa T. (2020) “**Finding specificity in structural brain alterations through Bayesian reverse inference**”. *Human Brain Mapping* [doi: 10.1002/hbm.25105](https://doi.org/10.1002/hbm.25105)
- Cauda F., Mancuso L., Nani A., Ficco L., Premi E., **Manuello J.**, Liloia D., Gelmini G., Duca S., Costa T. (2020) “**Hubs of long-distance co-alteration characterize brain pathology**”. *Human Brain Mapping* <https://doi.org/10.1002/hbm.25093>
- Mancuso L., Fornito A., Costa T., Ficco L., Liloia D., **Manuello J.**, Duca S., Cauda F. (2020) “**A meta-analytic approach to mapping co-occurrent grey matter volume increases and decreases in psychiatric disorders**”. *NeuroImage* doi.org/10.1016/j.neuroimage.2020.117220

- Nani A., **Manuello J.**, Mancuso L., Liloia D., Costa T., Cauda F. (2019) “**The neural correlates of consciousness and attention: Two sister processes of the brain**”. *Frontiers in Neuroscience* <https://doi.org/10.3389/fnins.2019.01169>
- Nani A., **Manuello J.**, Liloia D., Duca S., Costa T., Cauda F. (2019) “**The Neural Correlates of Time: A Meta-analysis of Neuroimaging Studies**”. *Journal of Cognitive Neuroscience* https://doi.org/10.1162/jocn_a_01459
- Mancuso L., Costa T., Nani A., **Manuello J.**, Liloia D., Gelmini G., Panero M., Duca S., Cauda F. (2019) “**The homotopic connectivity of the functional brain: a meta-analytic approach**”. *Scientific Reports* <https://doi.org/10.1038/s41598-019-40188-3>
- Cauda F., Nani A., **Manuello J.**, Liloia D., Tatu K., Vercelli U., Duca S., Fox P.T., Costa T. (2019) “**The alteration landscape of the cerebral cortex**”. *NeuroImage*. 184: 359-371 [doi:10.1016/j.neuroimage.2018.09.036](https://doi.org/10.1016/j.neuroimage.2018.09.036)
- Cauda F., Nani A., Liloia D., Manuello J., Premi E., Duca S., Fox P., Costa T. (2019) “**Addressing reverse inference in structural brain alterations**”. *bioRxiv* 536847; [doi: http://dx.doi.org/10.1101/536847](http://dx.doi.org/10.1101/536847)
- Liloia D., Cauda F., Nani A., **Manuello J.**, Duca S., Fox P.T., Costa T. (2018) “**Low entropy maps as patterns of the pathological alteration specificity of brain regions: A meta-analysis dataset**”. *Data in Brief* <https://doi.org/10.1016/j.dib.2018.10.142>
- Cauda F., Nani A., **Manuello J.**, Premi E., Palermo S., Tatu K., Duca S., Fox P.T., Costa T. (2018) “**Brain structural alterations are distributed following functional, anatomic and genetic connectivity**”. *Brain*. <https://doi.org/10.1093/brain/awy252>
- Cauda F., Nani A., Costa T., Palermo S., Tatu K., **Manuello J.**, Duca S., Fox P.T., Keller R. (2018) “**The morphometric co-atrophy networking of schizophrenia, autistic and obsessive spectrum disorders**”. *Hum Brain Mapp*. 00: 1-31. <https://doi.org/10.1002/hbm.23952>
- **Manuello J.**¹, Nani A.¹, Premi E., Borroni B., Costa T., Tatu K., Liloia D., Duca S., Cauda F. (2018) “**The Pathoconnectivity Profile of Alzheimer's Disease: A Morphometric Coalteration Network Analysis**”. *Front. Neurol.* 8:739. [doi: 10.3389/fneur.2017.00739](https://doi.org/10.3389/fneur.2017.00739)
- Costa T., Nani A., **Manuello J.**, Vercelli U., Tatu K., Cauda F. (2017) “**Specific patterns of bold variability associated with the processing of pain stimuli**”. *bioRxiv* 157222; [doi: https://doi.org/10.1101/157222](https://doi.org/10.1101/157222)
- **Manuello J.**, Vercelli U., Nani A., Costa T., Cauda F. (2016) “**Mindfulness meditation and consciousness: An integrative neuroscientific perspective**”. *Consciousness and Cognition*, 40, 67-78
- **Manuello J.**, Vercelli U., Nani A., Costa T., Cauda F. (2015) “**Can mindfulness meditation alter consciousness? An integrative interpretation**”. *bioRxiv* 024174; [doi:http://dx.doi.org/10.1101/024174](http://dx.doi.org/10.1101/024174).

Book chapters

- Costa T., Liloia D., Ferraro M., **Manuello J.**, “**Plausible reasoning in neuroscience**”. In book: Handbook of Abductive Cognition. Springer Nature, editor: Lorenzo Magnani. (2022) https://doi.org/10.1007/978-3-030-68436-5_74-1
- **Manuello J.**, Nani A., Cauda F., “**Attention, Salience, and Self-Awareness: The Role of Insula in Meditation**”. In book: Island of Reil (Insula) in the Human Brain. Springer Nature, editor: Mehmet Turgut et al. (2018)
- **Manuello J.**, Nani A., Cauda F., “**Consciousness and Meditation: Two Partially Overlapping Networks**”. In book: Consciousness: Social Perspectives, Psychological Approaches And Current Research. NOVA publishers, editor: Lloyd Alvarado. (2016)

Abstracts and posters

- **Manuello J.**, Liloia D., Mancuso L., Cauda F., Duca S., Costa T., “**A co-alteration based characterization of the lentiform nucleus**”, 2022

- **Manuello J.**, Liloia D., Dalla Mutta F., Cauda F., Duca S., Costa T., “CBMAT: a data assistant for coordinate-based meta-analyses”, 2022
- **Manuello J.**, Liloia D., Mancuso L., Nani A., Costa T., Cauda F. “Measuring the incidence of structural alteration across gray matter”, 2021
- **Manuello J.**, Mancuso L., Ficco L., Liloia D., Nani A., Costa T., Duca S., Cauda F. “Behind brain structural alteration patterns. Can clustering reveal organizational principles?”, 2020
- Gray J.P., **Manuello J.**, Cauda F., Price L.R., Fox P.T. “Structural and Functional Brain Network Alterations in Major Depressive Disorder from Meta-Analysis”, 2020
- Mancuso L., Fornito A., Costa T., Ficco L., Liloia D., **Manuello J.**, Duca S., Cauda F. “Meta-analysis of coincident grey matter volume increases and decreases in psychiatric diseases”, 2020
- Liloia D., Nani A., **Manuello J.**, Mancuso L., Costa T., Keller R., Ficco L., Duca S., Cauda F. “Gray matter co-alteration networks in autism spectrum disorder: a meta-connectomic approach”, 2020
- **Manuello J.**, Palumbo E., Rizzo G., Nani A., Costa T., Duca S., Cauda F. “Clustering insula structural alteration using density-based approach: a DBSCAN application to brain”, 2019
- **Manuello J.**, Mancuso L., Ficco L., Polchi G., Teneggi A., Liloia D., Nani A., Costa T., Duca S., Cauda F. “The co-alteration profile of the cingulate cortex”, 2019
- Nani A., **Manuello J.**, Liloia D., Duca S., Costa T., Cauda F. “The Neural Substrates of Time Perception: A meta-analysis of Neuroimaging Research”, 2019
- Liloia D., Nani A., **Manuello J.**, Mancuso L., Costa T., Rocca P., Brasso C., Polchi G., Duca S., Cauda F. “Morphometric co-alteration networking in schizophrenia: a voxel-based and meta-analytical analysis”, 2019
- Mancuso L., Nani A., **Manuello J.**, Liloia D., Gelmini G., Ficco L., Duca S., Costa T., Cauda F. “Degree Centrality of Co-alteration Networks: Meta-analytic Hubs of Pathological Spread”, 2019
- Mancuso L., Costa T., Nani A., **Manuello J.**, Liloia D., Gelmini G., Panero M., Duca S., Cauda F. “A meta-analysis on homotopic co-activations, interhemispheric functional connectivity revisited”, 2019
- **Manuello J.**, Verdejo-Román J., Torres Espínola F.J., Arias M., Catena A., Campoy C. “Maternal excess weight and gestational diabetes determine long-term changes in the brain structure of their offspring: an MRI study on PREOBE children at 6 years old”. 2018
- **Manuello J.**, Costa T., Nani A., Tatu K., Liloia D., Vercelli U., Duca S., Cauda F. "A quantitative evaluation of the transdiagnostic meaning of social cognitive dysfunction", 2018
- **Manuello J.**, Verdejo-Román J., Torres Espínola F.J., Arias M., Catena A., Cauda F., Campoy C. “Detecting transgenerational effects of gestational diabetes and maternal BMI on the offspring brains”. 2018
- **Manuello J.**, Nani A., Premi E., Borroni B., Costa T., Tatu K., Liloia D., Duca S., Cauda F. “Analyzing gray matter co-atrophy network in Alzheimer’s disease: A new meta-analytical approach”, 2018
- **Manuello J.**, Verdejo-Román J., Torres Espínola F.J., Arias M., Catena A., Cauda F., Campoy C. “Detecting transgenerational effects of gestational diabetes and maternal BMI on the offspring brains”, 2018
- **Manuello J.**, Ferrara M., Nani A., Costa T., Vercelli U., Tatu K., Duca S., Cauda F., "A meta-analytical study of neuropathological signatures on the insula. A clustering approach". 2017
- Vercelli U., Moia S., **Manuello J.**, Nani A., Costa T., Tatu K., Duca S., Cauda F., "Autocorrelation of BOLD signal used as a parameter to classify autistic subjects". 2017
- Tatu K., Costa T., Nani A., Vercelli U., **Manuello J.**, Gaminiani G., Duca S., Cauda F., "The Propagation Pattern of Brain Alterations in Multiple Sclerosis. A Meta-Analytic Network Approach". 2017
- Liloia D., Nani A., **Manuello J.**, Costa T., Vercelli U., Duca S., Cauda F., "Structural Abnormalities in Autism Spectrum Disorder: A Meta-analytic and Network-based Study". 2017
- Nani A., **Manuello J.**, Costa T., Tatu K., Vercelli U., Moia S., Duca S., Cauda F., "The pattern of damage propagation of the left and right insulae". 2016
- Nani A., **Manuello J.**, Costa T., Tatu K., Vercelli U., Moia S., Duca S., Cauda F., "What is the most frequently altered area of the cortex in brain disorders?". 2016
- Vercelli U., Nani A., Costa T., **Manuello J.**, Tatu K., Duca S., Cauda F., "The pattern distribution of alterations caused by brain disorders in the cingulate cortex". 2016

- Tatu K., Costa T., Diano M., Vercelli U., **Manuello J.**, Moia S., Geminiani G., Duca S., Cauda F., "Gray Matter Damage Propagation Network In Multiple Sclerosis: A Meta-Analytic Study". 2015
- Tatu K., Costa T., Diano M., Palermo S., Duca S., Geminiani G., Vercelli U., **Manuello J.**, Moia S., Cauda F., "Damage propagation network in chronic pain: A meta-analytic study." 2015

Tools and software developed

- BACON (Bayes fACtor mOdeliNg): https://figshare.com/articles/software/Bacon_Plugin/12988661

Invited talks, oral communications and symposia

- **“Investigating the pathological brain through Bayesian reverse inference”**, Society for Computation in Psychology Annual Meeting 2021.
- **“Using reverse inference to analyze specificity of brain alteration in neurodegenerative and psychiatric disorders”**, in the symposium “From Brain Structures to Cognitive Functions: Philosophical and Neuroscientific Perspectives on Reverse Inference”, ESPP Conference 2021.
- **“Gray matter co-alteration networks in Autism Spectrum Disorder: A meta-connectomic approach”**, OHBM annual meeting 2020.

Awards and recognitions

- International Brain Research Organization (IBRO) Travel Grant award 2021.
- Society of Biological Psychiatry (SOBP) Travel Fellowship Award 2023.

Scientific events organization

- Organizer of the web-conference “The signs of violence: neuropsychological assessment in survivors of violent events”, 3rd May 2022, on-line.
- Organizer of the web-conference “Neuropsychology of Intimate Partner Violence: a research focus on perpetrators' and victims' brain and mind”, 19th March 2021, on-line.
- Member of the scientific committee of the international congress and official satellite event of the OHBM 2019 Annual Meeting “New frontiers of connectivity analysis: from healthy brain to pathoconnectomics”, 15th June 2019, Turin.
- Member of the organizational committee of the international congress “Eating disorders and substance abuse. The impact of stressful lifestyles on brain functioning”, 1st March 2019, Turin.
- From 2021 ad-hoc scientific advisor for the web content “Uovo Sodo”, produced by RKH company.
- From 2017 member of the organizational committee of “Pint of Science – Turin”.

Scientific events participation

- OHBM annual meeting 2022. 19th-23rd June, Glasgow.
- Society for Computation in Psychology Annual Meeting 2021. 4th November, virtual meeting.
- OHBM annual meeting 2021. 21st-25th June, virtual meeting.
- OHBM annual meeting 2020. 23rd June - 3rd July, virtual meeting.
- OHBM annual meeting 2019. 9th-13th June, Rome.
- HCP course: Exploring the Human Connectome. 25th-29th June 2018. Oxford, UK.
- 'PredPsych', a R based toolbox for machine learning in experimental psychology. 24th April, 2018. Turin.
- “FSL Course”. 9th-13th April 2018. Oxford, UK.

Reviewing activity

- From 2023 Associate Editor for the “Journal of Alzheimer’s Disease”.
- From 2022 Review Editor for the section “Nutrition, Psychology and Brain Health” of Frontiers in Nutrition.
- Reviewer for the following journals: Brain Structure and Function, NeuroImage, NeuroImage: Clinical, Brain Research, Neural Plasticity, Cells, Neuropsychologia.
- Invited Reviewer for the AAPG 2022 call of the Agence Nationale de la Recherche, France.

Membership to societies and committees

- From 2021 member of the Brain Space Initiative
- From 2021 member of the European Society for Philosophy and Psychology
- From 2019 member of the Awards Committee of the Organization for Human Brain Mapping
- From 2019 member of the Organization for Human Brain Mapping
- From 2018 to 2020 elected delegate of the PhD students in the Council of the Doctoral School of the University of Turin

Teaching experience

- 2023 Teacher for the course “General and social Psychology”, part of undergraduate degree in Strategic Science and Security (L/DS), University of Turin, Italy.
- 2023 Teacher for the practical course “Neuropsychology”, part of undergraduate degree in Psychological Sciences and Techniques (L-24), University of Turin, Italy.
- 2022 Teacher for the seminar “Advanced techniques for coordinate-based meta-analysis”, IMT, Lucca, Italy.
- 2022 Teacher for the course “Advanced analysis techniques for large datasets in neuroimaging” part of the Doctoral Program in Neuroscience of the University of Turin, Italy
- 2022 Teacher for the course “Approcci metodologici all’analisi di grandi banche dati nel neuroimaging” part of the Doctoral Program in Psychological Anthropological and Educational Sciences of the University of Turin, Italy

Students supervision

- 2022 Co-supervised Master Degree thesis in Forensic Psychology, University of Turin – Student: Caterina Servadei
- 2022 Co-supervised Master Degree thesis in Body and Mind Sciences, University of Turin – Students: Annachiara Crocetta; Francesca Dalla Mutta.

Spoken languages

English, Spanish and French.

(Last update: 23rd January 2023)

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