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Quentin Moreau, PhD

Post-doc researcher in Social Neuroscience at Precision Psychiatry and Social Physiology (PPSP) lab led by Dr. Guillaume Dumas, Hôpital Ste-Justine & Université de Montréal, Canada

Previous Positions

January 2019 - August 2021: Post-doc researcher in Cognitive and Social Neuroscience at IRCCS Fondazione Santa Lucia & “La Sapienza” University of Rome, Italy.

November 2015 - November 2018: PhD student in Cognitive and Social Neuroscience under the supervision of Prof. Matteo Candidi and Prof Salvatore Maria Aglioti, “La Sapienza” University of Rome, Italy.

September 2018 - January 2019: Visiting PhD student, laboratoire de Génétique Humaine et de Fonctions Cognitives, Institut Pasteur, Paris, France.

January-June 2015: Research internship at Laboratoire sur le Langage, le Cerveau et la Cognition (L2C2, CNRS) under the supervision of Dr. Yves Paulignan, Lyon, France.

April-May 2014: Research internship at Laboratoire sur le Langage, le Cerveau et la Cognition (L2C2, CNRS) under the supervision of Dr. Tatjana Nazir and Dr. Yves Paulignan, Lyon, France.

Scientific Publications

Moreau Q., Adel L., Douglas C., Ranjbaran G., Dumas G. (2022) A Neurodynamic Model of Inter-Brain Coupling in the Gamma Band. *BioRxiv*.

Moreau Q., Tieri G., Era V., Aglioti SM., Candidi M. (2022) The monitoring system is attuned to others' actions during dyadic interactions. *Cerebral Cortex*.

Boukarras S., Ozkan D.G., Era V., **Moreau Q.**, Tieri G., Candidi M. (2022) Midfrontal theta tACS facilitates motor coordination in dyadic human-avatar motor interactions. *Journal of Cognitive Neuroscience*.

Moreau Q. & Dumas G. (2021) Beyond Correlation versus Causation: Multi-brain Neuroscience Needs Explanation. *Trends in Cognitive Neuroscience*.

Moreau Q., Candidi M., Era V., Tieri G., Aglioti SM. (2020) Frontal and occipito-temporal activity as marker of error monitoring in Human-Avatar joint performance. *Cortex*.

Dumas, G., **Moreau, Q.**, Tognoli, E., Kelso J.A.S (2019) The Human Dynamic Clamp reveals the fronto-parietal network linking real-time social coordination and cognition. *Cerebral Cortex*.

Moreau, Q., Parrotta, E., Era, V., Martelli, M.L., Candidi, M. (2019) Role of the occipito-temporal Theta rhythm in hand visual identification. *Journal of Neurophysiology*.

Özkan D.G., Pezzetta, R., **Moreau, Q.**, Abreu, A.M, Aglioti, S.M. (2019) Predicting the fate of basketball throws: an EEG study on expert action prediction in wheelchair basketball players. *Experimental Brain Research*.

Moreau Q., Pavone EF, Aglioti SM, Candidi M. (2018) Theta synchronization over occipito-temporal cortices during visual perception of body parts. *European Journal of Neuroscience*.

Moreau Q., Galvan L., Nazir TA., Paulignan Y. (2016) Dynamics of Social Interaction: Kinematic Analysis of a Joint Action. *Frontiers in Psychology*.

Moreau Q. & Candidi M. (2016). Commentary: Hand and Grasp Selection in a Preferential Reaching Task: The Effects of Object Location, Orientation, and Task Intention. *Frontiers in Psychology*.

Nazir TA., Hrycyk L., **Moreau Q.**, et al. (2015) A Simple Technique to Study Language Processes: A Grip Force Sensor. *Behavioral Research Methods*.

Metrics

Google Scholar (04-2022): Citations: 149, h-index: 8

Grants and Rewards

UNIQUE Postdoctoral Excellence Scholarship - **CLONE: CLO**sed-loop **NE**uromodulation: EEG-tES combination in human-machine social interactions. *UNIQUE (Unifying Neuroscience and Artificial Intelligence in Québec)* - CAD \$20.000 - **sole recipient**

'A new ultrasonic method based on Bessel Beam diffraction for non-invasive, focal, ultraselective, deep and superficial brain stimulation' (2020) - *Bando di Ricerca Finalizzata, Italian Ministry of Health* - €445.000 - **research collaborator**

'Beyond your own body: extending the bodily self to the neuroaesthetics of interactions' (2021) - *BIAL Foundation* - €49.500 - **team member**

InEurope Short Stay grants (2019) - *IBRO PERC* - €3000 - **sole recipient**

'Neural correlates of a joint action in human-avatar and human-human paradigms' (2017) - '*Avvio alla Ricerca*', *Sapienza University of Rome* - €1000 - **sole recipient**

Invited talks

Moreau Q. From body perception to social coordination - University of Aberdeen, School of Psychology talks - November 18th 2021.

Moreau Q. Prediction errors during interpersonal motor interactions reveal frontal and occipito-temporal theta. - MeeTo InTo Brain – Turin, 24-27th June 2018.

Moreau Q. EEG correlates of error-prediction during joint actions. Talk - Workshop on Joint actions and Interpersonal coordination - Sapienza University of Rome – 17th of July 2017.

Poster Presentations

Moreau Q., Era V, Tieri G., Candidi M. Frontal and occipito-temporal Theta activity as marker of error monitoring in Human-Avatar joint performance. CuttingEEG – Paris, 1st July 2018.

Parrotta E., **Moreau Q.,** Era V., Candidi M. Functional role of occipito-temporal Theta rhythm in Hand visual perception. MeeTo InTo Brain – Turin, 24-27th June 2018.

Moreau Q., Era V, Tieri G., Candidi M. Prediction errors during interpersonal motor interactions reveal frontal and occipito-temporal theta. MeeTo InTo Brain – Turin, 24-27th June 2018.

Moreau Q., Pavone EF., Boukarras S., Tieri G., Candidi M. Frontal Theta synchronization as a prediction marker during joint actions. Poster - JAM meeting – London, 22-26 of July 2017.

Moreau Q., Pavone EF., Candidi M. EEG correlates of body-parts visual perception in the occipito-temporal cortex. Poster - SAMBA meeting – Salzburg, 11-14 of July 2017.

Moreau Q., Pavone EF., Candidi M. Extrastriate Body Area Time-frequency EEG correlates of body-parts visual perception. Poster - XXIV Congresso SIPF - 27-29 Octobre 2016 - Milan 20, 130-131.

Moreau Q. & Paulignan Y. Study of the dynamics of social interaction: kinematic analysis of a joint action. Poster - 12th meeting of the French Neuroscience Society, held in Montpellier from May the 19th to May the 22nd 2015.

Teaching Activities

Master Thesis supervision of Eleonora Parrotta (September 2017-August 2018) – 110/110 *cum laude*, accepted as a PhD student at the end of her master's at the University of Aberdeen, UK.

Master Thesis supervision of Ugo Pesci (September 2019-July 2020) - 110/110 *cum laude*, accepted as a PhD student at the end of her master's at "La Sapienza" University of Rome, Italy.

Social Neuroscience video-lectures (March 2020 & April 2021) 'Errors in Social Neuroscience' - *Sapienza University*.

2-day workshop on EEG methods: 'EEG time-frequency approaches to social cognition experiments' (3rd and 4th of October 2019) – *Sapienza University*.

Introduction to Time Frequency Analysis (3H – May 2017) in Cognitive Neuroimaging Course. Chairs: Dr Galati and Dr Candidi – *Sapienza University*

EEG recording and analysis methods (2H – May 2018) in Psychobiology of Typical and Atypical Development Course. Chair: Dr Orsini – *Sapienza University*.

Scientific Activities

Peer-reviewer for Neuroscience and Biobehavioral Reviews, Social, Cognitive and Affective Neuroscience (SCAN), Scientific Reports, Cognitive Affective and Behavioral Neurosciences (CABN), Frontiers in Psychology, Plos One, Adaptive Behavior.

Organizer of the Workshop on Joint actions and Interpersonal coordination - Sapienza University of Rome – 17th of July 2017. Speakers (Dr. Giacomo Novembre, Dr. Lucia Sacheli, Dr. Vanessa Era, Dr. Matteo Candidi).

Lab meeting manager, MC and organizer of monthly Aglioti Lab meetings from November 2015 to September 2017,

Guest presenter at the Psychoanalysis French Association for an introduction to Social Neuroscience.

Education

2019: PhD in Cognitive, Social and Affective Neuroscience (CoSAN), Sapienza University "Grasping the Social Brain: EEG correlates of Hand Perception and Motor Interactions".

2015: Master 2 Research in Neurosciences, Université de Lyon 1.

2014: Master 1 of Biology and Health with Major in Neurosciences, Université de Tours

2013: Bachelor of Biology, Université Catholique de l'Ouest d'Angers

2010: Scientific Baccalauréat (High School Diploma), Biology Specialty, with Honours.

Volunteering and Extracurricular activities

President of the Sports Association 2013, Université Catholique de l'Ouest d'Angers.

Vice-president of the Sports Association 2010-2012, Université Catholique de l'Ouest d'Angers.

U14 Girls basketball coaching 2009-2014 - Basketball Club Saumur Loire Basket 49.

Homework tutoring 2010-2013: Mayor Office of Saumur, France.

Non-scientific Publications

Chapitre : « Vers un neuro-couple ? » Le couple, une obsolescence programmée ?
Association libre - Institut de Psychanalyse de couple, 2017 - ISSN 2115-7200.