



Antonino Errante

Date of birth: 01/08/1989 | **Place of birth:** Reggio Di Calabria, Italy | **Nationality:** Italian | **Gender:** Male |

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● ABOUT ME

Psychologist with a Ph.D. in Neuroscience and postdoctoral research experience at the University of Parma. My academic and professional profile combines scientific research and clinical practice, with a focus on brain mechanisms underlying action imitation, motor learning, and recovery of motor functions in neurological patients. I have extensive experience in neuropsychological assessment and rehabilitation, working with both children with neurodevelopmental disorders and adults with acquired brain injuries. Skilled in fMRI data analysis and neuropsychological testing, I integrate research methods into evidence-based clinical interventions.

● WORK EXPERIENCE

CONTRACT RESEARCHER – DEPARTMENT OF MEDICINE AND SURGERY, UNIVERSITY OF PARMA – 01/01/2026 –
Current – PARMA , ITALY

Neuroimaging investigations, data analysis, planning fMRI protocols

CONTRACT PROFESSOR – DEPARTMENT OF CHEMISTRY, LIFE SCIENCES AND ENVIRONMENTAL SUSTAINABILITY –
01/03/2022 – Current – PARMA , ITALY

Research Methods in Cognitive Neuroscience (05/D1 - BIO/09 Physiology), Degree course in Translational Biomedical Sciences (TBS), Credits=6, 56 hours.

POSTDOCTORAL RESEARCHER – DEPARTMENT OF MEDICINE AND SURGERY, UNIVERSITY OF PARMA – 01/11/2024 –
31/12/2025 – PARMA, ITALY

Research activity in cognitive neuroscience and human neuroimaging (BIO/09 Physiology).

CLINICAL PSYCHOLOGIST – STUDIO DI NEUROPSICOLOGIA – 01/09/2024 – Current – PARMA , ITALY

Psychological consulting, neuropsychological assessment, rehabilitation, treatment of developmental learning disorders, language disorders, cognitive disabilities.

RESEARCH FELLOW – NEURORADIOLOGY UNIT, UNIVERSITY HOSPITAL OF PARMA – 01/09/2021 – 01/09/2024 – PARMA,
ITALY

Research Project: "Effectiveness of Action Observation Therapy based on Virtual Reality technology in motor rehabilitation of paretic stroke patients: a randomized clinical trial" (BIO/09 Physiology).
Funding: Italian Ministry of Health (MOE), Starting Grant SG-2019-12370506.
Main role: Principal Investigator (2021-2024).

POSTDOCTORAL RESEARCHER – DEPARTMENT OF MEDICINE AND SURGERY, UNIVERSITY OF PARMA – 01/03/2019 –
01/09/2021 – PARMA, ITALY

Research Project: "Functional and structural changes of the cerebral cortex in children affected by unilateral cerebral palsy after application of Action observation Therapy based on pathological model" (BIO/09 Physiology).

Supervisor: Prof. Leonardo Fogassi.

Main activities: planning of functional MRI experimental design, data collection and analysis, MRI operator for GE 3T systems (>500 h), preparation of edited audio-videos stimuli, papers writing, experience in writing research Grant projects.

RESEARCH FELLOW – DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF TURIN – 01/03/2018 – 01/03/2019 – TURIN, ITALY

Research Project: "The body in human and monkey brain" (M-PSI/02).

Supervisor: Prof. Francesca Garbarini.

Main activities: Training of non-human primates. Kinematic recordings and analysis of monkey movements during visuo-tactile stimulation and rubber-hand illusion.

● EDUCATION AND TRAINING

01/01/2022 – 30/05/2026 Reggio Emilia, Italy

POST-GRADUATE TRAINING PROGRAM IN PSYCHOTHERAPY Academy of Developmental Neuropsychology (ANSVI)

Field of study Developmental Neuropsychology, assessment and planning of rehabilitation and psychotherapeutic treatments

01/03/2025 Parma, Italy

NATIONAL ACADEMIC QUALIFICATION AS ASSOCIATE PROFESSOR (BIO/09 – PHYSIOLOGY; M-PSI/01-02-03 – PSYCHOLOGY) Italian Ministry of University and Research - MUR

01/11/2014 – 01/11/2017 Parma, Italy

PH.D. IN NEUROSCIENCE Department of Medicine and Surgery, University of Parma

Thesis Modulating the Mirror Neuron System by action observation in children with Unilateral Cerebral Palsy. Supervisor: Prof. Leonardo Fogassi.

12/02/2015 Italy

QUALIFICATION LICENCE OF PROFESSIONAL PRACTICE IN PSYCHOLOGY, NR. 8021, SECTION A Order of Psychologists, Emilia Romagna

01/11/2014 – 01/11/2017 Rome, Italy

SECOND LEVEL UNIVERSITY MASTER'S COURSE IN CLINICAL NEUROPSYCHOLOGY European University of Rome and Skinner Institute

Thesis Auditory Representation of actions in apraxia: a single case study. Supervisor: Prof. Luigi Troiano.

01/10/2011 – 01/10/2013 Messina, Italy

MASTER'S DEGREE IN PSYCHOLOGY Department of Psychology, University of Messina

Thesis The spatial representation of social roles: a cross-cultural study on the Spatial Agency Bias. Summa cum laude. Tutor: Prof. Massimo Ingrassia.

01/10/2008 – 01/10/2011 Messina, Italy

BACHELOR'S DEGREE IN PSYCHOLOGICAL SCIENCE AND TECHNIQUES Faculty of Educational Science, University of Messina

Thesis Assessment and treatment of the obsessive-compulsive disorder in children. Tutor: Prof. Giuseppina Filippello.

01/04/2024 – CURRENT Langhirano (Parma) , Italy

TRAINING IN DEVELOPMENTAL CLINICAL NEUROPSYCHOLOGY Child and Adolescent Neuropsychiatry service, AUSL Parma-Est

Training in clinical neuropsychology, assessment, rehabilitation, psychotherapy

01/03/2023 – 01/07/2023 Fidenza , Italy

TRAINING IN DEVELOPMENTAL CLINICAL NEUROPSYCHOLOGY Child and Adolescent Neuropsychiatry service, AUSL Parma - Fidenza District, Italy

Training in clinical neuropsychology, assessment, rehabilitation, psychotherapy

01/03/2022 – 01/07/2022 Fidenza , Italy

TRAINING IN DEVELOPMENTAL CLINICAL NEUROPSYCHOLOGY Child and Adolescent Neuropsychiatry service, AUSL Parma - Fidenza District, Italy

Clinical assessment and treatment of patients with Autistic Spectrum Disorders (ASD).

01/04/2014 – 01/10/2014 Reggio Di Calabria , Italy

TRAINING IN CLINICAL NEUROPSYCHOLOGY Neurorehabilitation Institute "Il Mandorlo"

Neuropsychological assessment, rehabilitation, cognitive treatments, psychological counseling. Area of treatment: severe acquired brain lesions, neurodegenerative disorders, traumatic brain injury.

01/04/2013 – 01/04/2014 Reggio Di Calabria , Italy

TRAINING IN CLINICAL PSYCHOLOGY Psychiatric Institute "Villa S. Agata"

Conducting structured clinical interviews, psychoeducation and skills training groups, participating in team meetings with psychiatrists, social workers, nurses, and occupational therapists.

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B1	B1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

Neuropsychological assessment in children, adults, and elderly people | Neuropsychological rehabilitation | fMRI data acquisition: >500 hours of scanner operation experience | MRI devices: Nordic NeuroLab visual system; Cinema vision Resonance Technology | fMRI analysis: Brain Voyager, SPM12, CONN, Anatomy, MVPA, Real Time fMRI | DTI processing and tractography: FSL, TrackVis, DSI Studio | Eye-tracking: Arrington ViewPoint | Programming environments: MATLAB, E-Prime, Presentation, PsychoPy | Motion tracking system: Tracker software | Statistical packages: SPSS, Statistica, PRISM, R | Adobe Photoshop, Affinity Photo, Flash, Illustrator, Adobe Premiere, Final Cut Pro, VirtualDub | Audio Editing: Praat, Cool Edit Pro | 3D Design: Poser Pro 2014, DAZ 3D Studio

● HONOURS AND AWARDS

01/09/2020

Starting Grant SG-2019-12370506 – Italian Ministry of Health

The Starting Grant from the Italian Ministry of Health (€ 130.000) is an award granted to young researchers under the age of 33 who have demonstrated an outstanding scientific and academic track record. It supports the development of clinical research projects of high national relevance.

The specific project funded by this grant was a randomized controlled trial (RCT) entitled: "Effectiveness of Action Observation Therapy based on Virtual Reality technology in motor rehabilitation of paretic stroke patients: a randomized clinical trial."

● NETWORKS AND MEMBERSHIPS

01/09/2019 – CURRENT

Ordinary Member of Society for Neuroscience (SFN)

14/11/2017 – CURRENT

Ordinary Member of Federation of European Neuroscience Societies (FENS)

01/01/2026 – CURRENT

Ordinary Member of the Organization for Human Brain Mapping (OHBM)

01/10/2022 – CURRENT

Ordinary Member of the Italian Society of Neuropsychology (SINP)

01/06/2024 – CURRENT

Ordinary Member of the Italian Society of Neurological Rehabilitation (SIRN)

● PROJECTS

2024 – CURRENT

ATHENA - More than cerebral cortex: 7T Anatomico-functional characterization at 7T of cortical, subcortical, and cerebellar structures involved in THE Network of Action observation.

University of Parma – Imago7 Foundation. Responsible of 3T fMRI data acquisition and analysis.

2024 – CURRENT

PRIN “Decoding kinematics of others' actions for learning new motor skills in healthy individuals and children with motor deficits: Neuroimaging studies and early Health Technology Assessment”.

University of Parma – IRCCS Stella Maris – Imago7 Foundation. Main role: Responsible of fMRI work-packages (3 studies) with 3T MRI. PI: Prof. Leonardo Fogassi.

2022 – CURRENT

PRIN “The Neurophysiological Bases of Biological Motion: From Laboratory to Clinics”. Main role: Responsible of fMRI work-packages (3 studies).

University of Parma – University of Ferrara – University of Rome “La Sapienza”. PI: Prof. Leonardo Fogassi.

2022 – CURRENT

Project “ACT-ON-DIP: action observation tele-rehabilitation for upper limb in children with diplegic cerebral palsy”

IRCCS Stella Maris – University of Parma, IRCCS Reggio Emilia. Main role: Responsible of fMRI data acquisition and analysis. PI: Dott. Giuseppina Sgandurra.

2021 – CURRENT

Project “Action imitation and Mirror Neuron System activation in patients with Alzheimer Diseases.

University Hospital of Parma. Main role: Responsible of fMRI data acquisition and analysis. PI: Dott. Marco Spallazzi.

2021 – 2023

Project “Activation of the Mirror Neuron System during observation and execution of facial expressions in patients with Moebius Syndrome”.

University Hospital of Parma, Institut des Sciences Cognitives “Marc Jeannerod”, Lyon, France. PI: Dott. Bernardo Bianchi. CO-PI: Prof. Pier Francesco Ferrari.

2020 – 2022

Project “Effectiveness of action observation therapy based on pathological ameliorative model in the motor rehabilitation of hemiplegic children: a randomized-controlled clinical trial”.

University of Parma, Italy. Main role: Research assistant. PI: Prof. Leonardo Fogassi.

2018 – 2020

Project “Audio-visual processing of mouth actions in patients with Disorders of Consciousness”.

Coma Research Centre, Neurological Institute C. Besta, Milan, Italy. Main role: Research assistant. PI: Dott.ssa Maria Grazia Bruzzone.

University of Turin, Italy. Main role: Research assistant. PI: Prof. Francesca Garbarini.

● PUBLICATIONS

2026

[Errante A, Saviola D, Cantoni M, et al. Action observation combined with virtual reality promotes motor recovery after stroke: A randomized controlled trial. Stroke 2026;57:1136-1148.](#)

2026

[Bozzetti F, Errante A, Corbo D, et al. Mapping neurodegeneration with diffusion MRI: biomarkers, mechanisms, and clinical translation. Frontiers in Neurology 2026;17:1757762.](#)

2026

[Errante A, Sicuri E, Russo C, et al. \(2026\). Functional and structural connectivity between the cerebellum and the cortical mirror neuron system: evidence from fMRI and DTI probabilistic tractography. Neurolmage, 121819.](#)

2025

[Ciullo G, Bozzetti F, Ziccarelli, S, Fogassi L, Errante A. Neurophysiological mechanisms underlying action observation treatment for upper limb stroke rehabilitation: A mini-review. Neuroscience & Biobehavioral Reviews 2025, 106484.](#)

2025

[Errante A, Ciullo G, Ziccarelli S, Piras A, Russo C, & Fogassi L. Predicting Imitative Performance through Cortico-Cerebellar Circuits: A Multivariate and Effective Connectivity Study. Neurolmage 2025;121081.](#)

2024

[Errante A, Rossi Sebastiano A, Castellani N, Rozzi S, Fogassi L, Garbarini F. Shared body representation constrains in human and non-human primates behavior. Cortex 2024;181:179-193.](#)

2024

[Errante A, Beccani L, Verzelloni J, Maggi I, Filippi M, Bressi B, ... & Fogassi L. Effectiveness of action observation treatment based on pathological model in hemiplegic children: a randomized-controlled trial. Eur J Phy Rehabil Med. 2024;60\(4\):643-655.](#)

2024

[Errante A, Ferraro S, Demichelis G, Pinardi C, Stanziano M, Sattin D, Rossi Sebastiano D, Rozzi S, D'Incerti L, Catricalà E, Leonardi M, Bruzzone MG, Fogassi L, Nigri A. Brain activation during processing of mouth actions in patients with disorders of consciousness. Brain Commun. 2024 Feb 15;6\(2\):fcae045.](#)

2024

[Errante A, Bozzetti F, Piras A, Beccani L, Filippi M, Costi S, Ferrari A, Fogassi L. Lesion mapping and functional characterization of hemiplegic children with different patterns of hand manipulation. Neuroimage Clin. 2024;41:103575.](#)

2024

[Paolini S, Bazzini MC, Ferrari L, Errante A, Fogassi L, Rizzolatti G, ... & Nuara A. The importance of observing the master's hand: Action Observation Training promotes the acquisition of new musical skills. Frontiers in Neurol. 2024;15:1383053.](#)

2023

[Errante A, Gerbella M, Mingolla GP, Fogassi L. Activation of Cerebellum, Basal Ganglia and Thalamus During Observation and Execution of Mouth, hand, and foot Actions. Brain Topogr. 2023 Jul;36\(4\): 476-499.](#)

2022

[Errante A, Rossi Sebastiano A, Ziccarelli S, Bruno V, Rozzi S, Pia L, Fogassi L, Garbarini F. Structural connectivity associated with the sense of body ownership: a diffusion tensor imaging and disconnection study in patients with bodily awareness disorder. Brain Commun. 2022 Feb 11;4\(1\):fcac032.](#)

2022

[Errante A, Saviola D, Cantoni M, Iannuzzelli K, Ziccarelli S, Togni F, Simonini M, Malchiodi C, Bertoni D, Inzaghi MG, Bozzetti F, Menozzi R, Quarenghi A, Quarenghi P, Bosone D, Fogassi L, Salvi GP, De Tanti A. Effectiveness of action observation therapy based on virtual reality technology in the motor rehabilitation of paretic stroke patients: a randomized clinical trial. BMC Neurol. 2022 Mar 22;22\(1\): 109.](#)

2022

[Ziccarelli S, Errante A, Fogassi L. Decoding point-light displays and fully visible hand grasping actions within the action observation network. Hum Brain Mapp. 2022;43\(14\):4293-4309.](#)

2021

[Errante A, Ziccarelli S, Mingolla GP, Fogassi L. Decoding grip type and action goal during the observation of reaching-grasping actions: A multivariate fMRI study. Neuroimage. 2021 Nov; 243:118511.](#)

2021

[Errante A, Ziccarelli S, Mingolla G, Fogassi L. Grasping and Manipulation: Neural Bases and Anatomical Circuitry in Humans. Neuroscience. 2021 Mar 15;458:203-212.](#)

2021

[Errante A, Fogassi L. Functional Lateralization of the Mirror Neuron System in Monkey and Humans. Symmetry. 2021; 13\(1\):77.](#)

2021

[Verzelloni J, Errante A, Beccani L, Filippi M, Bressi B, Cavuto S, ... & Ferrari A. Can a pathological model improve the abilities of the paretic hand in hemiplegic children? The PAM-AOT study protocol of a randomised controlled trial. BMJ open 2021;11\(12\):e053910.](#)

2021

[Ardizzi M, Ferroni F, Umiltà MA, Pinardi C, Errante A, Ferri F, Fadda E, Gallese V. Visceromotor roots of aesthetic evaluation of pain in art: an fMRI study. Soc Cogn Affect Neurosci. 2021 Nov 15;16\(11\): 1113-1122.](#)

2021

[Basagni B, Luzzatti C, De Tanti A, Bozzetti F, Crisi G, Pinardi C, Errante A, Fogassi L. Some evidence on Gerstmann's syndrome: A case study on a variant of the clinical disorder. Brain Cogn. 2021 Mar; 148:105679.](#)

2020

[Errante A, Fogassi L. Activation of cerebellum and basal ganglia during the observation and execution of manipulative actions. Sci Rep. 2020 Jul 20;10\(1\):12008.](#)

2019

[Errante A, Di Cesare G, Pinardi C, Fasano F, Sghedoni S, Costi S, Ferrari A, Fogassi L. Mirror Neuron System Activation in Children With Unilateral Cerebral Palsy During Observation of Actions Performed by a Pathological Model. Neurorehabil Neural Repair. 2019 Jun;33\(6\):419-431.](#)

2019

[Errante A, Fogassi L. Parieto-frontal mechanisms underlying observation of complex hand-object manipulation. Sci Rep. 2019 Jan 23;9\(1\):348.](#)

2019

[Errante A, Bozzetti F, Sghedoni S, Bressi B, Costi S, Crisi G, Ferrari A, Fogassi L. Explicit Motor Imagery for Grasping Actions in Children With Spastic Unilateral Cerebral Palsy. Front Neurol. 2019 Aug 7;10:837.](#)

2019

[Errante A, Saviola D, Fasano F, Basagni B, Alinovi S, Bosetti S, Chiari M, Minardi R, Pinardi C, Crisi G, Fogassi L, De Tanti A. Application of an Intensive Rehabilitation Program After Very Late Recovery of Consciousness: A Single-Case Neurorehabilitation and Neuroimaging Study. J Cent Nerv Syst Dis. 2019 Apr 18;11:1179573519843492.](#)

2019

[Basagni B, Errante A, Pinardi C, De Gaetano K, Crisi G, De Tanti A, Fogassi L. Rehabilitation of unilateral spatial neglect: A combined behavioral and fMRI single-case study. Neuropsychology. 2019 Mar;33\(3\):343- 357](#)

2018

[Di Cesare G, Marchi M, Errante A, Fasano F, Rizzolatti G. Mirroring the Social Aspects of Speech and Actions: The Role of the Insula. Cereb Cortex. 2018 Apr 1;28\(4\):1348-1357.](#)

2017

[Di Cesare G, Errante A, Marchi M, Cuccio V. Language for action: Motor resonance during the processing of human and robotic voices. Brain Cogn. 2017 Nov;118:118-127.](#)

2016

[Di Cesare G, Fasano F, Errante A, Marchi M, Rizzolatti G. Understanding the internal states of others by listening to action verbs. Neuropsychologia. 2016 Aug;89:172-179.](#)

2015

[Fabio RA, Gullà I, Errante A. Emotions and eye movements: Eye tracker and mnestic parameters. Memory consolidation. 2015: pp. 235-258. Nova Science Publisher, NY.](#)

● CONFERENCES AND SEMINARS

Errante A. Driving short-term motor learning through imitation of fully visible and point-light actions. Annual Meeting of the OHBM, June 13-18 2026, Bordeaux, France.

Errante A. Effectiveness of action observation treatment based on pathological model in hemiplegic children: a randomized-controlled trial. 37th Annual Meeting of the European Academy Of Childhood-onset Disability (EACD), June 26-28, 2025, Heidelberg, Germany.

Errante A. Modulazione Plastica del Sistema Specchio in Bambini con Paralisi Cerebrale Unilaterale: Effetti dell'Osservazione ed Esecuzione di Azioni. Congresso della Società Italiana di Neuropsicologia (SINP), May 16-17 2025, Urbino, Italy.

Errante A. Nuove frontiere nella riabilitazione dell'arto superiore: dall'action observation treatment alla realtà virtuale. Convegno scientifico: Riabilitare oggi. Tecnologia, nuove competenze e tradizione in un sistema complesso con la persona al centro. March 21, 2025, Bergamo, Italy.

Write here the description...

Errante A., Russo C., Ciullo G., Piras A., Sicuri E., Gerbella M., Fogassi L. Segregated projections from cerebellum to contralateral thalamus and cortical areas involved in observation and execution of grasping actions. Society for Neuroscience, October 5-9 2024, Chicago, USA.

Ciullo G, Errante A, Piras A, Fogassi L. How well can I imitate? Predicting imitative performance across cerebellum and parietal, premotor and dorsolateral prefrontal cortex during actions observation: A multivariate fMRI study. XXXII Congresso Nazionale SIPF, September 4-6 2024, Cesena, Italy.

Russo C, Errante A, Gerbella M, Fogassi L. Exploring the Role of the Cerebellum in Predictive Action Representations: Insights from an fMRI and DTI study. XXXII Congresso Nazionale SIPF, September 4-6 2024, Cesena, Italy.

Ciullo G, Errante A, Piras A, Ziccarelli S, Zilioli A, Spallazzi M, Fogassi L. Functional activation of the Mirror Neuron System in patients with Mild Cognitive Impairment and Alzheimer Disease during actions observation and imitation: preliminary findings. XXIX National Congress SINDEM, September 26-28 2024, Padua, Italy.

Errante A. Proprietà del sistema specchio e Neuroplasticità Dall'Action Observation Treatment alla riabilitazione con realtà virtuale. IV International Congress of the Physiotherapy Association. Nov 22-24 2024, Florence, Italy.

Errante A, Saviola D, Cantoni M, et al. Effectiveness of Action Observation Treatment Integrated with Virtual Reality in the Motor Rehabilitation of Stroke Patients: A Randomized Controlled Clinical Trial. FENS Forum of Neuroscience 2024, 25-29 June, Vienna, Austria.

Errante A, Beccani L, Ziccarelli S, Filippi MC, Sassi S, Ferrari A, Fogassi L. Mirror Neuron System plasticity during observation and execution of grasping actions in children with Unilateral Cerebral Palsy. 36° Meeting of the European Academy of Cerebral Palsy (EACD), 29 May - 1 June 2024, Bruges, Belgium (oral presentation).

Errante A. Effectiveness of Action Observation Treatment and Virtual Reality in stroke rehabilitation. XXIII Congress of the Italian Society for Neurorehabilitation, 15-17 February 2024, Florence, Italy.

Errante A, Sghedoni S, Bressi B, Di Cesare G, Costi S, Volpe V, Ferrari A, Fogassi L. Explicit Motor Imagery ability for Grasping actions in Children with Hemiplegic Cerebral Palsy. Convegno intersocietario SIMFER-SINPIA. La riabilitazione delle funzioni adattive in età evolutiva. Dec 12-13 2024, Brescia, Italy.

Errante A, Ziccarelli S, Russo C, Fogassi L. Effective connectivity between cerebellum and contralateral parietal and prefrontal cortex during observation and imitation of complex bimanual action sequences. SfN, November 10-15, 2023, Washington DC, USA.

Ziccarelli S, Errante A, Fogassi L. Distinct neural encoding of direction and velocity parameters in parietal and premotor areas during observation of point-light displays grasping actions. SfN, November 10-15, 2023, Washington DC, USA.

Errante A, Fogassi L. Proprietà del sistema specchio e sue applicazioni cliniche. Dall'action observation treatment alla riabilitazione con realtà virtuale. Congresso internazionale SPORT, DISABILITY & METAVERSE - Oct 6-7 2023 IRCCS E. Medea - Associazione La Nostra Famiglia, Bosisio Parini, Lecco, Italy.

Ziccarelli S, Errante A, Mingolla G, Fogassi L. Decoding means and outcome during action observation: a multivariate fMRI study. OHBM 2021, June 21-25, Virtual Conference.

Errante A, Gerbella M, Fogassi L. Somatotopic organization of the subcortical structures involved in action execution and observation. OHBM 2019, June 9-13, Rome, Italy

Basagni B, Luzzatti C, Errante A, Pinardi C, De Tanti A, Fogassi L. New perspectives on Gerstmann's syndrome: a single case study. VII Congresso della Società Italiana di Neuropsicologia, November 23-24, 2018, Rome, Italy.

Errante A and Fogassi L. Beyond the motor repertoire: neural mechanisms underlying observation of complex hand-object manipulation. 11th FENS Forum of Neuroscience, July 7-11, 2018, Berlin, Germany.

Errante A. Rehabilitation of Unilateral Spatial Neglect: a single-case neuropsychological and fMRI study". Convegno: Negligenza Spaziale e Emianopsia, Diagnosi differenziale e percorsi di cura innovativi. June 7, 2018, Fontanellato (PR), Italy, (oral presentation).

Errante A. Modulating the Mirror Neuron System by action observation in right Unilateral Cerebral Palsy". European Society of Magnetic Resonance for Medicine and Biology, October 19-21 2017, Barcelona, Spain (oral presentation).

Di Cesare G, Marchi M, Errante A, Fasano F, Rizzolatti G. Mirroring the action style in the insula across auditory and visual modalities. 10th FENS Forum of Neuroscience, July 2-6 2016, Copenhagen, Denmark.

Errante A, Di Cesare G, Fasano F, Costi S, Sghedoni S, Bressi B, Volpe V, Ferrari A, Fogassi L. Modulating the motor system by action observation in right hemiplegic cerebral palsy: an fMRI study. XXIV Congresso Nazionale Società Italiana di Psicofisiologia. Brains in Action: dalle Neuroscienze di Base ai Sistemi Sociali Complessi. Oct 27-29 2016, Milan, Italy.

● **DRIVING LICENCE**

Driving Licence: B

Driving Licence: Sailing licence over 12 miles

● **CLINICAL AND RESEARCH INTERESTS**

Neurophysiology

- action coding (e.g., motor learning; action observation; motor imagery, action execution; visuomotor representations; mirror neurons)
- parieto-frontal circuits in the human/primate brain
- role of subcortical structures during action observation/imitation
- action observation treatment in patients in with neurological disorders
- neuroimaging techniques, especially functional magnetic resonance imaging (fMRI), neural networks, graph networks, multivariate connectivity

Neuropsychology

- clinical neuropsychology and cognitive/motor rehabilitation
- developmental disorders (cerebral palsy; DCD; language disorders; cognitive disability)
- learning disorders
- severe acquired brain lesions

In compliance with Regulation (EU) 2016/679 (General Data Protection Regulation), I hereby authorize the processing of my personal data contained in this document.

Parma , 18/06/2026

A handwritten signature in black ink, appearing to read "Antonino Errante". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Antonino Errante