

FRANCESCA FERRI

INFORMAZIONI PERSONALI

Data di Nascita: 13 Marzo 1978

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AFFILIAZIONE ATTUALE

Dipartimento di Neuroscienze, Imaging e Scienze Cliniche (DNISC)

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TITOLI DI STUDIO E QUALIFICHE ACCADEMICHE

- 2018 **Abilitazione Scientifica Nazionale (ASN2016) alle funzioni di Professore Universitario di prima fascia per il settore concorsuale 11/E1**, Psicologia Generale, Psicobiologia e Psicometria (scadenza 11/04/2024);
 - 2017 **Membro della Higher Education Academy, UK** (codice identificativo PR130073). Valutazione della didattica e conseguimento della qualifica: University of Essex, UK. (<https://www.heacademy.ac.uk/persongtea/university-essex>).
 - 2014 **Abilitazione Scientifica Nazionale (ASN2012) alle funzioni di Professore Universitario di seconda fascia per il settore concorsuale 11/E1**, Psicologia Generale, Psicobiologia e Psicometria (scadenza 25/02/2020);
 - 2012 **Dottorato di Ricerca in "Neuroscienze"**, Università di Parma, Italia. Titolo della tesi: "The Bodily Self and the role of its disruption in schizophrenia". CICLO XXIII. Coordinatore: Prof. Vittorio Gallese. Giudizio: Eccellente.
 - 2007 **Dottorato di Ricerca in "Biologia Funzionale dei Sistemi Cellulari e Molecolari"**, Università di Bologna, Italia. Titolo della tesi: "Nuova funzione della DNA topoisomerasi I nella regolazione della pausa trascrizionale della RNA polimerasi II in regioni prossimali al promotore in cellule umane". CICLO XIX. Coordinatore: Prof. Vincenzo Scarlato. Giudizio: Eccellente.
 - 2003 **Laurea in Biotecnologie**, indirizzo Medico Veterinario. Università di Bologna, Italia. Votazione 110/110 cum laude.
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POSIZIONI ACCADEMICHE E DI RICERCA

- dal 2019 **Ricercatore a Tempo Determinato** - Tipo B al Dipartimento di Neuroscienze, Imaging e Scienze Cliniche (DNISC), Università degli Studi "G. D'Annunzio" di Chieti-Pescara, Italia. SC 11/E1, SSD M-PSI/02;
- 2016-2018 **Lecturer (ASR, Academic Staff with Research Responsibilities)**, Department of Psychology, University of Essex, UK;
- 2016-17 **Visiting Professor**, Dipartimento di Medicina e Chirurgia, Università di Parma, Italia. Corso di Laurea Magistrale in Psicobiologia e Neuroscienze Cognitive.
- 2013-15 **Post-Doctoral Fellow**, Institute of Mental Health Research, University of Ottawa, Canada. Titolo del programma di ricerca: "SPATIO-TEMPORAL STRUCTURES OF THE BODILY SELF: A MULTIMODAL IMAGING AND GENETIC INVESTIGATION". Tutor:

Prof. Georg Northoff.

- 2012 **Assegno di collaborazione ad attività di ricerca post-dottorato**, Dipartimento di Medicina e Chirurgia, Università di Parma, Italia. Titolo del programma di ricerca: “STUDIO DELLA RAPPRESENTAZIONE DEL CORPO E DELLO SPAZIO PERIPERSONALE”. Tutor: Prof. Vittorio Gallese.

PUBBLICAZIONI IN RIVISTE SCIENTIFICHE

Neuroscienze, Psicologia Sperimentale, Psicopatologia

1. Ambrosini E, Finotti G, Azevedo RT, Tsakiris M, Ferri F. Seeing myself through my heart: Cortical processing of a single heartbeat speeds up self-face recognition. *Biol Psychol*. 2019 May;144:64-73. doi: 10.1016/j.biopsycho.2019.03.006.
2. Labrenz F, Ferri F, Wrede K, Forsting M, Schedlowski M, Engler H, Elsenbruch S, Benson S, Costantini M. Altered temporal variance and functional connectivity of BOLD signal is associated with state anxiety during acute systemic inflammation. *Neuroimage*. 2019 Jan 1;184:916-924. doi: 10.1016/j.neuroimage.2018.09.056.
3. Ferri F, Venskus A, Fotia F, Cooke J, Romei V. Higher proneness to multisensory illusions is driven by reduced temporal sensitivity in people with high schizotypal traits. *Conscious Cogn*. 2018 Oct;65:263-270. doi: 10.1016/j.concog.2018.09.006
4. Di Plinio S, **Ferri F**, Marzetti L, Romani GL, Northoff G, Pizzella V. Functional connections between activated and deactivated brain regions mediate emotional interference during externally directed cognition. *Human Brain Mapping*. 2018 Apr 24. [Epub ahead of print]. doi: 10.1002/hbm.24197. ISSN: 1065-9471.
5. Ardizzi M, **Ferri F**. Interoceptive influences on peripersonal space boundary. *Cognition*. 2018 Apr 11;177: 79-86. [Epub ahead of print]. doi: 10.1016/j.cognition.2018.04.001. ISSN: 0010-0277.
6. Costantini M, Migliorati D, Donno B, Sirota M, **Ferri F**. Expected but omitted stimuli affect crossmodal interaction. *Cognition*. 2018 Feb; 171:52-64. Epub 2017 Nov 4. doi: 10.1016/j.cognition.2017.10.016. ISSN: 0010-0277.
7. Di Cosmo G, Costantini M, Salone A, Martinotti G, Di Iorio G, Di Giannantonio M, **Ferri F**. Peripersonal space boundary in schizotypy and schizophrenia. *Schizophrenia Research*. 2017 Dec 18. pii: S0920-9964(17)30755-7. [Epub ahead of print]. doi: 10.1016/j.schres.2017.12.003. ISSN: 0920-9964.
8. **Ferri F**, Ambrosini E, Pinti P, Merla A, Costantini M. The role of expectation in multisensory body representation: neural evidence. *European Journal of Neuroscience*. 2017 Jun 23; [Epub ahead of print]. doi: 10.1111/ejn.13629. ISSN: 0953-816X.
9. **Ferri F**, Nikolova Y, Perrucci MG, Costantini M, Ferretti A, Gatta V, Huang Z, Edden R, Yue Q, D'Aurora M, Sibille E, Stuppia L, Romani GL, Northoff G. A neural “tuning curve” for multisensory experience and cognitive-perceptual schizotypy. *Schizophrenia Bulletin*. 2017 Feb 7; 43 (4): 801-813. doi: 10.1093/schbul/sbw174. ISSN: 0586-7614.
10. Huang Z, Zhang J, Longtin A, Dumont G, Duncan NW, Pokorny J, Qin P, Dai R, **Ferri F**, Weng X, Northoff G. Is There a Nonadditive Interaction Between Spontaneous and Evoked Activity? Phase-Dependence and Its Relation to the Temporal Structure of Scale-Free Brain Activity.

Cerebral Cortex 2017 Feb 1; 27(2): 1037-1059. doi: 10.1093/cercor/bhv288. ISSN: 1047-3211.

11. **Ferri F**, Ambrosini E, Costantini M. Spatiotemporal processing of somatosensory stimuli in schizotypy. *Scientific Reports*. 2016 Dec 9;6:38735. doi: 10.1038/srep38735. ISSN: 2045-2322.
12. **Ferri F**, Costantini M. Commentary: The magnetic touch illusion: A perceptual correlate of visuo-tactile integration in peripersonal space. *Frontiers in Human Neuroscience*. 2016 Oct 13;10:492. doi: 10.3389/fnhum.2016.00492. ISSN: 1662-5161.
13. Candini M, Farinelli M, **Ferri F**, Avanzi S, Cevolani D, Gallese V, Northoff G, Frassinetti F. Implicit and explicit routes to recognize the own body: evidence from brain damaged patients. *Frontiers in Human Neuroscience*. 2016 Aug 31;10:405. doi: 10.3389/fnhum.2016.00405. ISSN: 1662-5161.
14. Costantini M, Robinson J, Migliorati D, Donno B, **Ferri F**, Northoff G. Temporal limits on rubber hand illusion reflect individuals' temporal resolution in multisensory perception. *Cognition*. 2016 Dec;157:39-48. doi: 10.1016/j.cognition.2016.08.010. ISSN: 0010-0277.
15. Ardizzi M, Ambrosecchia M, Buratta L, **Ferri F**, Peciccia M, Donnari S, Mazzeschi C, Gallese V. Interoception and positive symptoms in Schizophrenia. *Frontiers in Human Neuroscience*. 2016 Jul 27;10:379. doi: 10.3389/fnhum.2016.00379. ISSN: 1662-5161.
16. Martino M, Magioncalda P, Saiote C, Conio B, Escelsior A, Rocchi G, Piaggio N, Marozzi V, Huang Z, **Ferri F**, Amore M, Inglese M, Northoff G. Abnormal functional-structural cingulum connectivity in mania: combined functional magnetic resonance imaging-diffusion tensor imaging investigation in different phases of bipolar disorder. *Acta Psychiatrica Scandinavica*. 2016 Oct;134(4):339-49. doi: 10.1111/acps.12596. ISSN: 0001-690X.
17. **Ferri F**, Costantini M, Huang Z, Perrucci MG, Ferretti F, Romani GL, Northoff G. Intertrial Variability in the Premotor Cortex Accounts for Individual Differences in Peripersonal Space. *The Journal of Neuroscience*. 2015 Dec 16;35(50):16328-39. doi: 10.1523/JNEUROSCI.1696-15.2015. ISSN: 0270-6474.
18. **Ferri F**, Tajadura-Jiménez A, Väljamäe A, Vastano R, Costantini M. Emotion-inducing approaching sounds shape the boundaries of multisensory peripersonal space. *Neuropsychologia* 2015 Apr;70:468-75. doi: 10.1016/j.neuropsychologia.2015.03.001. ISSN: 0028-3932.
19. Rusconi E, **Ferri F**, Viding E, Mitchener-Nissen T. XRIndex: A brief screening tool for individual differences in security threat detection in x-ray images. *Frontiers in Human Neuroscience*. 2015 Aug 10;9:439. doi: 10.3389/fnhum.2015.00439. ISSN: 1662-5161.
20. Magioncalda P, Martino M, Conio B, Escelsior A, Piaggio N, Presta A, Marozzi V, Rocchi G, Anastasio L, Vassallo L, **Ferri F**, Huang Z, Roccatagliata L, Pardini M, Northoff G, Amore M. Functional connectivity and neuronal variability of resting state activity in bipolar disorder-reduction and decoupling in anterior cortical midline structures. *Human Brain Mapping*. 2015 Feb;36(2):666-82. doi: 10.1002/hbm.22655. ISSN: 1065-9471.
21. **Ferri F**, Costantini M, Salone A, Chiarelli A, Di Iorio G, Merla A, Di Giannantonio M & Gallese V. Upcoming tactile events and body ownership and in schizophrenia. *Schizophrenia Research*. 2014 Jan;152(1):51-7. doi: 10.1016/j.schres.2013.06.026. ISSN: 0920-9964.
22. **Ferri F**, Costantini M, Salone A, Ebisch S, De Berardis D, Mazzola V, Arciero G, Ferro FM, Di Giannantonio M, Romani GL, Gallese V. Binding Action and Emotion in First-Episode Schizophrenia. *Psychopathology*. 2014;47(6):394-407. doi: 10.1159/000366133. ISSN: 0254-4962.

23. **Ferri F**, Busiello M, Campione GC, De Stefani E, Innocenti A, Romani GL, Costantini M, Gentilucci M. The eye contact effect in request and emblematic hand gestures. *European Journal of Neuroscience*. 2014 Mar;39(5):841-51. doi: 10.1111/ejn.12428. ISSN: 0953-816X.
24. Ebisch SJ, Mantini D, Northoff G, Salone A, De Berardis D, **Ferri F**, Ferro FM, Di Giannantonio M, Romani GL, Gallese V. Altered brain long-range functional interactions underlying the link between aberrant self-experience and self-other relationship in first-episode schizophrenia. *Schizophrenia Bulletin*. 2014 Sep; 40(5):1072-82. doi: 10.1093/schbul/sbt153. ISSN: 0586-7614.
25. Ebisch SJ, **Ferri F**, Romani GL, Gallese V. Reach out and touch someone: anticipatory neural representations of active interpersonal touch. *Journal of Cognitive Neuroscience*. 2014 Sep; 26(9):2171-85. doi: 10.1162/jocn_a_00610. ISSN: 0898-929X.
26. Cuccio V, Ambrosecchia M, **Ferri F**, Carapezza M, Lo Piparo F, Fogassi L, Gallese V. How the context matters. Literal and figurative meaning in the embodied language paradigm. *PLoS One*. 2014 Dec 22;9(12):e115381. doi: 10.1371/journal.pone.0115381. ISSN: 1932-6203.
27. Gallese V, **Ferri F**. Psychopathology of the bodily self and the brain. The case of schizophrenia. *Psychopathology* 2014;47(6):357-64. doi: 10.1159/000365638. ISSN: 0254-4962.
28. De Stefani E, Innocenti A, De Marco D, Busiello M, **Ferri F**, Costantini M, Gentilucci M. The spatial alignment effect in near and far space: a kinematic study. *Experimental Brain Research*. 2014 Jul;232(7):2431-8. doi: 10.1007/s00221-014-3943-8. ISSN: 0014-4819.
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29. Ebisch SJ, **Ferri F**, Gallese V. Touching moments: desire modulates the neural anticipation of active romantic caress. *Frontiers in Behavioral Neuroscience*. 2014 Feb 28;8:60. doi: 10.3389/fnbeh.2014.00060. ISSN: 1662-5153.
30. **Ferri F**, Ebisch SJ, Costantini M, Salone A, Arciero G, Mazzola V, Ferro FM, Romani GL, Gallese V. Binding Action and Emotion in Social Understanding. *PLoS One*. 2013 Jan;8(1):e54091. doi: 10.1159/000366133. ISSN: 1932-6203.
31. Ebisch SJ, Salone A, **Ferri F**, De Berardis D, Romani GL, Ferro FM, Gallese V. Out of touch with reality? Social perception in first-episode schizophrenia. *Social Cognitive and Affective Neuroscience*. 2013 Apr;8(4): 394-403. doi: 10.1093/scan/nss012. ISSN: 1749-5016.
32. **Ferri F**, Ardizzi M, Ambrosecchia M, Gallese V. Closing the gap between the inside and the outside: interoceptive sensitivity predicts tendency to social engagement *PLoS One*. 2013 Oct 1;8(10): e75758. doi: 10.1371/journal.pone.0075758. ISSN: 1932-6203.
33. Gallese V, **Ferri F**. Jaspers, the body, and schizophrenia: the bodily self. *Psychopathology*. 2013;46(5):330-6. doi: 10.1159/000353258. ISSN: 0254-4962.
34. Costantini M, **Ferri F**. Action co-representation and social exclusion *Experimental Brain Research*. 2013 May; 227(1):85-92. doi: 10.1007/s00221-013-3487-3. ISSN: 0014-4819.
35. Costantini M, Di Vacri A, Chiarelli AM, **Ferri F**, Romani GL, Merla A. Studying social cognition using near-infrared spectroscopy: the case of social Simon effect. *Journal of Biomedical Optics*. 2013 Feb 1;18(2):25005. doi: 10.1117/1.JBO.18.2.025005. ISSN: 1560-2281.
36. **Ferri F**, Chiarelli AM, Merla A, Gallese V, Costantini M. The body beyond the body: expectation of a sensory event is enough to induce ownership over a fake hand. *Proceedings of the Royal Society B*. 2013 Jun 26;280(1765):20131140. doi: 10.1098/rspb.2013.1140. ISSN: 1471-2954.
37. **Ferri F**, Frassinetti F, Ardizzi M, Costantini M, Gallese V. A sensorimotor network for the bodily

- self. *Journal of Cognitive Neuroscience*. 2012 Jul; 24(7):1584-95. doi: 10.1162/jocn_a_00230. ISSN: 0898-929X.
38. **Ferri F**, Frassinetti F, Mastrangelo F, Salone A, Ferro FM, Gallese V. Bodily self and schizophrenia: The loss of implicit self-body knowledge. *Consciousness and Cognition*. 2012 Jul; 23(7):1808-22. doi: 10.1016/j.concog.2012.05.001. ISSN: 1053-8100.
 39. **Ferri F**, Salone A, Ebisch SJ, De Berardis D, Romani GL, Ferro FM, Gallese V. Action verb understanding in first-episode schizophrenia: is there evidence for a simulation deficit? *Neuropsychologia*. 2012 Apr;50(5):988-96. doi: 10.1016/j.neuropsychologia.2012.02.005. ISSN: 0028-3932.
 40. **Ferri F**, Riggio L, Gallese V, Costantini M. Objects and their nouns in peripersonal space. *Neuropsychologia*. 2011 Nov; 49(13): 3519-24. doi: 10.1016/j.neuropsychologia.2011.09.001. ISSN: 0028-3932.
 41. Frassinetti F, **Ferri F**, Maini M, Benassi MG, Gallese V. Bodily self: an implicit knowledge of what is explicitly unknown. *Experimental Brain Research*. 2011 Jul; 212(1): 153-60. Erratum in: *Experimental Brain Research*. 2011 Jul; 212(1):161. doi: 10.1007/s00221-011-2708-x. ISSN: 0014-4819.
 42. **Ferri F**, Frassinetti F, Costantini M, Gallese V. Motor simulation and the bodily self. *PLoS One*. 2011 Mar 25;6(3):e17927. doi: 10.1371/journal.pone.0017927. ISSN: 1932-6203.
 43. **Ferri F**, Campione GC, Dalla Volta R, Gianelli C, Gentilucci M. Social requests and social affordances: how they affect the kinematics of motor sequences during interactions between conspecifics. *PLoS One*. 2011 Jan 24;6(1):e15855. doi: 10.1371/journal.pone.0015855. ISSN: 1932-6203.
 44. **Ferri F**, Campione GC, Gentilucci M. The emergence of language and gestuality. *Sistemi Intelligenti*. 2011 23 2(August): 301-308. doi: 10.1422/35356. ISSN: 1120-9550.
 45. Ebisch SJ, **Ferri F**, Salone A, Perrucci MG, D'Amico L, Ferro FM, Romani GL, Gallese V. Differential involvement of somatosensory and interoceptive cortices during the observation of affective touch. *Journal of Cognitive Neuroscience*. 2011 Jul;23(7):1808-22. doi: 10.1162/jocn.2010.21551. ISSN: 0898-929X.
 46. **Ferri F**, Stoianov IP, Gianelli C, D'Amico L, Borghi AM, Gallese V. When action meets emotions: how facial displays of emotion influence goal-related behavior. *PLoS One*. 2010 Oct 1;5(10). pii: e13126. doi: 10.1371/journal.pone.0013126. ISSN: 1932-6203.
 47. **Ferri F**, Campione GC, Dalla Volta R, Gianelli C, Gentilucci M. To me or to you? When the self is advantaged. *Experimental Brain Research*. 2010 Jun;203(4):637-46. doi: 10.1007/s00221-010-2271-x. ISSN: 0014-4819.
 48. Bertossa F, Besa M, Ferrari R, **Ferri F**. Point zero: a phenomenological inquiry into the seat of consciousness. *Perceptual and Motor Skills*. 2008 Oct;107(2):323-35. doi: 10.2466/pms.107.2.323-335. ISSN: 0031-5125.

Biologia Molecolare

49. Lotito L, **Ferri F**, Russo A, Capranico G. DNA topoisomerase I as a transcription protein and a lethal cellular toxin. *Italian Journal of Biochemistry*. 2007 Jun;56(2):122-9. Review. ISSN: 0021-2938.
50. Capranico G, **Ferri F**, Fogli MV, Russo A, Lotito L, Baranello L. The effects of camptothecin on

- RNA polymerase II transcription: roles of DNA topoisomerase I. *Biochimie*. 2007 Apr; 89(4):482-9. Epub 2007 Jan 21. Review. doi: 10.1016/j.biochi.2007.01.001. ISSN: 0300-9084.
51. Khobta A, **Ferri F**, Lotito L, Montecucco A, Rossi R, Capranico G. Early effects of topoisomerase I inhibition on RNA polymerase II along transcribed genes in human cells. *Journal of Molecular Biology*. 2006 Mar 17;357(1):127-38. doi: 10.1016/j.jmb.2005.12.069. ISSN: 0022-2836.
 52. Luisi PL, **Ferri F**, Stano P. Approaches to semi-synthetic minimal cells: a review. *Naturwissenschaften*. 2006 Jan;93(1):1-13. Review. doi: 10.1007/s00114-005-0056-z. ISSN: 0028-1042.

Capitoli in volume

1. **Ferri F**, Gallese V. The Bodily Self in schizophrenia. In: "The Oxford Handbook of Phenomenological Psychopathology", Stanghellini G, Raballo A, Broome M, Fernandez AV, Fusar-Poli P, Rosfort R (Eds.) Oxford University Press, UK, [in press]. doi: <http://dx.doi.org/10.1093/oxfordhb/9780198803157.001.0001>. ISBN: 9780198803157.
2. Gallese V, **Ferri F**. Schizophrenia, embodied simulation and bodily selves. In: "New Frontiers in Mirror Neuron Research", Ferrari PF and Rizzolatti G (Eds.) Oxford University Press, UK, 2015. pp 348-365. doi: 10.1093/acprof:oso/9780199686155.001.0001. ISBN: 9780199686155.
3. Stano P, **Ferri F**, Luisi PL. Semi-synthetic minimal living cells. In: "Chemical Synthetic Biology", P. L. Luisi, C. Chiarabelli (Eds.) Wiley, Chichester, 2011. pp 247-286. doi: 10.1002/9780470977873. ISBN: 9780470713976.