

CURRICULUM VITAE

GIUSEPPE PAGNONI

EDUCATION AND WORK

2020	National Abilitation to Full Professor, sector 05/D1. Valid from November 18, 2020 until November 18, 2032.
2015–present	Associate Professor in the Department of Biomedical, Metabolic and Neural Sciences, at the University of Modena and Reggio Emilia.
2008–2015	Assistant Professor in the Department of Biomedical Sciences, Section Physiology, of the University of Modena and Reggio Emilia.
2002–2008	Assistant Professor in the Department of Psychiatry and Behavioral Sciences of Emory University, Atlanta, GA, USA.
2000–2002	Postdoc Fellowship in the Department of Psychiatry and Behavioral Sciences, Emory University, Atlanta, GA, USA.
1998–1999	Research fellowship of the Department of Biomedical Sciences and Technologies, University of Udine (Tutor: Prof. Carlo A. Porro).
1994–1998	Ph.D. in Neuroscienze, University of Parma (Directors: Prof. G. Rizzolatti and R. Corazza). Thesis: <i>‘Semantic’ and ‘explorative’ perception: a functional imaging study on implicit recognition of visual stimuli.</i>
1992	M.A. (Italian ‘Laurea’) in Physics, University of Modena.

RESEARCH

Functional neuroimaging in humans. Application of the theory of Active Inference and (Bayesian) predictive processing to the modelling of the activity of neural circuits and of cognitive processes. Intrinsic brain activity and its measurement by data-driven functional neuroimaging techniques. Neurophysiological and psychological mechanisms of contemplative practices. Neural bases of mental effort in healthy individuals and in chronic fatigue syndrome. Role of basal ganglia in reward and prediction. Central mechanisms of pain perception. Interaction of immune function, cognition, and mood in the IFN-alpha model. Functional imaging of social cognition models. Alteration of cognitive and neural processes in neurodegenerative dementias.

CITATION METRICS (SCOPUS, JULY 2026)

h-index: 39

Number of articles: 79

Sum of times cited: 9114

ARTICLES IN INTERNATIONAL JOURNALS

1. Santaguida E, **Pagnoni G**, Bergamasco M. The fetus/infant-mother as a co-evolving dyadic system and the development of attachment styles: an active inference perspective. *Frontiers in Psychology*, 2026, 17.
2. Poublan-couzardot A, Foncelle A, Koun E, Rossetti Y, Abdoun O, **Pagnoni G**, Lutz A (*Abdoun O, Pagnoni G, and Lutz A are joint senior authors*).p Modulation of sensory attenuation by intensive meditation practice: an active inference perspective. *Neuroscience of Consciousness*, 2026, 1(niaf051).
3. Maramotti R, Parr T, Tondelli M, Ballotta D, Manohar SG, Zamboni G, **Pagnoni G** Understanding mechanisms of voluntary engagement of mental effort using active inference. *Cognitive, Affective and Behavioral Neuroscience*, 2026, 26(2).
4. Ballotta D, Maramotti R, Borelli E, Lui F, **Pagnoni G**. Voluntary modulation of mental effort affects the attentional shift induced by angry faces in women. *Neuroimage*, 2026.
5. Ganesan S, Barrios FA, Batta I, Bauer CCC, Braver TS, Brewer JA, Brown KW, Cahn R, Cain JA, Calhoun VD, Cao L, Chetelat G, Ching CRK, Creswell JD, Dagnino PC, Davanger S, Davidson RJ, Deco G, Dutcher JM, Escrichs A, Eyler LT, Fani N, Farb NAS, Fialoke S, Fresco DM, Garg R, Garland EL, Goldin P, Hafeman DM, Jahanshad N, Kang Y, Khalsa SS, Kirlic N, Lazar SW, Lutz A, McDermott TJ, **Pagnoni G**, Piguet C, Prakash RS, Rahrig H, Reggente N, Saccaro LF, Sacchet MD, Siegle GJ, Tang YY, Thomopoulos SI, Thompson PM, Torske A, Treves IN, Tripathi V, Tsuchiyagaito A, Turner MD, Vago DR, Valk S, Zeidan F,

- Zalesky A, Turner JA, King AP. ENIGMA-Meditation: Worldwide Consortium for Neuroscientific Investigations of Meditation Practices. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 2025, 10(4), 425—436.
6. Gandolfi D, Tincani M, Boiani GM, Benatti L, Zanotti T, Pezzulo G, **Pagnoni G**, Puglisi FM, Mapelli J. A network of Bayesian agents for reward prediction and noise tolerance. *iScience*, 2025, 28(11).
7. Carbone C, Maramotti R, Balboni E, Beltrami E, Ballotta D, Bedin R, Galligani C, Tondelli M, Salemme S, Gasparini F, Vinceti G, Marti A, Chiari A, Nocetti L, **Pagnoni G**, Zamboni G. Cognitive reserve in young-onset cognitive impairment. *Brain and Cognition*, 2025, 186, 106297.
8. Ballotta D, Maramotti R, Borelli E, Lui F, **Pagnoni G**. Angry facial expressions elicit a late attentional withdrawal. *Scientific Reports*, 2025, 15(1)
9. Abdoun O, Pouban-Couzardot A, Offort S, **Pagnoni G**, Lutz A. Shedding Light on Changes in Subjective Experience During an Intensive Contemplative Retreat: The Lyon Assessment of Meditation Phenomenology Questionnaire. *Biological Psychiatry Global Open Science*, 2025, 5(4), 100474.
10. Zamboni G, Maramotti R, Salemme S, Tondelli M, Adani G, Vinceti G, Carbone C, Filippini T, Vinceti M, **Pagnoni G**, Chiari A. Age-specific prevalence of the different clinical presentations of AD and FTD in young-onset dementia. *J Neurol*, 2024, 271(7), 4326—4335.
11. Tondelli M, Ballotta D, Maramotti R, Carbone C, Galligani C, MacKay C, **Pagnoni G**, Chiari A, Zamboni G. Resting-state networks and anosognosia in Alzheimer’s disease. *Frontiers in Aging Neuroscience*, 2024, 16.
12. **Pagnoni G**. An exciting path ahead: Comment on “Path integrals, particular kinds, and strange things” by Friston K., Da Costa L., Sakthivadivel D.A.R., Heins C., Pavliotis G.A., Ramstead M., and Parr T. *Phys Life Rev*, 2023, 47:139–141.
13. Lukemire J, **Pagnoni G**, Guo Y. Sparse Bayesian Modeling of Hierarchical Independent Component Analysis: Reliable Estimation of Individual Differences in Brain Networks. *Biometrics*, 2023, 74(4):3599–3611.
14. Ballotta D, Maramotti R, Borelli E, Lui F, **Pagnoni G**. Neural correlates of emotional valence for faces and words. *Frontiers in Psychology*, 2023, 14:1055054.
15. Timmermann C, Bauer PR, Gosseries O, Vanhaudenhuyse A, Vollenweider F, Laureys S, Singer T, Mind and Life Europe (MLE) ENCECON Research Group (incl. **Pagnoni G**), Antonova E, Lutz A. A neurophenomenological approach to non-ordinary states of consciousness: hypnosis, meditation, and psychedelics. *Trends in Cognitive Sciences*, 2023, 27:139–159.

16. Gandolfi D, Puglisi FM, Boiani GM, **Pagnoni G**, Friston KJ, D'Angelo E, Mapelli J. Emergence of associative learning in a neuromorphic inferential network, *J Neural Eng*, 2022, 19(3):036022.
17. Ramstead MJD, Seth AK, Hesp C, Sandved-Smith L, Mago J, Lifshitz M, **Pagnoni G**, Smith R, Dumas G, Lutz A, Friston K, Constant A. From generative models to generative passages: A computational approach to (neuro) phenomenology. *Review of Philosophy and Psychology*, 2022, 13(4): 829–857.
18. Gandolfi D, **Pagnoni G**, Filippini T, Goffi A, Vinceti M, D'Angelo E, Mapelli J. Modeling early phases of COVID-19 pandemic in northern Italy and its implication for outbreak diffusion. *Frontiers in public health*, 2021, 9:724362.
19. Feruglio S, Matiz A, **Pagnoni G**, Fabbro F, Crescentini C. The impact of mindfulness meditation on the wandering mind: a systematic review. *Neurosci Biobehav Rev*, 2021, 131:313–330.
20. Lukemire J, Kundu S, **Pagnoni G**, Guo Y. Bayesian Joint Modeling of Multiple Brain Functional Networks. *J Am Stat Assoc*, 2020, 0:1–13.
21. Bogdanov VB, Bogdanova OV, Dexpert S, Delgado I, Beyer H, Aubert A, Dilharreguy B, Beau C, Forestier D, Ledaguenel P, Magne E, Aouizerate B, Layé S, Ferreira G, Felger J, **Pagnoni G**, Capuron L. Reward-related brain activity and behavior are associated with peripheral ghrelin levels in obesity. *Psychoneuroendocrinology*, 2020, 112:104520.
22. Kirk U, **Pagnoni G**, Héту S, Montague R. Short-term mindfulness practice attenuates reward prediction errors signals in the brain. *Sci Rep*. 2019, 9(1):6964.
23. **Pagnoni G**. The contemplative exercise through the lenses of predictive processing: A promising approach. *Progress in brain research*, 2019, 244:299-322.
24. Lutz A, Mattout J, **Pagnoni G**. The epistemic and pragmatic value of non-action: a predictive coding perspective on meditation. *Current opinion in psychology*, 2019, 28:166-171.
25. Benuzzi F, Lui F, Ardizzi M, Ambrosecchia M, Ballotta D, Righi S, **Pagnoni G**, Gallese V, Porro CA. Pain Mirrors: Neural Correlates of Observing Self or Others' Facial Expressions of Pain. *Frontiers in psychology*, 2018, 9:1825.
26. **Pagnoni G**, Guareschi FT. Remembrance of things to come: a conversation between Zen and neuroscience on the predictive nature of the mind. *Mindfulness*, 2017, 8(1):27–37.
27. Khachouf OT, Chen G, Duzzi D, Porro CA, **Pagnoni G**. Voluntary modulation of mental effort investment: an fMRI study. *Scientific Reports*, 2017, 7:17191.

28. Chen X, Hackett PD, DeMarco AC, Feng C, Stair S, Haroon E, Ditzen B, **Pagnoni G**, Rilling JK. Effects of oxytocin and vasopressin on the neural response to unreciprocated cooperation within brain regions involved in stress and anxiety in men and women. *Brain Imaging Behav*, 2016, 10(2):581–593.
29. Kemmer PB, Guo Y, Wang Y, **Pagnoni G**. Network-based characterization of brain functional connectivity in Zen practitioners. *Frontiers in Psychology*, 2015, 6.
30. Feng G, Hackett PD, DeMarco AC, Chen X, Stair S, Haroon E, Ditzen B, **Pagnoni G**, Rilling J. Oxytocin and vasopressin effects on the neural response to social cooperation are modulated by sex. *Brain Imaging Behav*, 2015, 9(4):754–764.
31. **Pagnoni G**, Porro CA. Cognitive modulation of pain and predictive coding: Comment on “Facing the experience of pain: A neuropsychological perspective” by Fabbro and Crescentini. *Phys Life Rev*, 2014, 11(3):555–7.
32. Miller AH, Jones JF, Drake DF, Tian H, Unger ER, **Pagnoni G**. Decreased basal ganglia activation in subjects with Chronic Fatigue Syndrome: association with symptoms of fatigue. *PLoS One*, 2014, 9(5):e98156.
33. Favilla S, Huber A, **Pagnoni G**, Lui F, Facchin P, Cocchi M, Baraldi P, Porro CA. Ranking brain areas encoding the perceived level of pain from fMRI data. *Neuroimage*, 2014, 90:153–162.
34. Huber A, Lui F, Duzzi D, **Pagnoni G**, Porro CA. Structural and functional cerebral correlates of hypnotic suggestibility. *PLoS One*, 2014, 9(3):e93187.
35. Rilling JK, DeMarco AC, Hackett PD, Chen X, Gautam P, Stair S, Haroon E, Thompson R, Ditzen B, Patel R, **Pagnoni G**. Sex differences in the neural and behavioral response to intranasal oxytocin and vasopressin during human social interaction. *Psychoneuroendocrinology*, 2014, 39:237–248.
36. Khachouf OT, Poletti S, **Pagnoni G**. The embodied transcendental: a Kantian perspective on neurophenomenology. *Front Hum Neurosci*, 2013, 7, 611.
37. Agnati LF, Guidolin D, Battistin L, **Pagnoni G**, Fuxe K. The neurobiology of imagination: possible role of interaction-dominant dynamics and default mode network. *Front Psychol*, 2013, 4, 296.
38. Molinari E, Baraldi P, Campanella M, Duzzi D, Nocetti L, **Pagnoni P**, Porro CA. Human parieto-frontal networks related to action observation detected at rest. *Cereb Cortex*, 2013, 23:178–186.
39. Capuron L, **Pagnoni G**, Drake DF, Woolwine BJ, Spivey JR, Crowe RJ, Votaw JR, Goodman MM, Miller AH. Dopaminergic mechanisms of reduced basal ganglia responses to hedonic reward during interferon-alpha administration. *Arch Gen Psychiatry*, 2012, 69:1044–1053.

40. Confalonieri L, **Pagnoni G**, Barsalou LW, Rajendra J, Eickhoff SB, Butler AJ. Brain Activation in Primary Motor and Somatosensory Cortices during Motor Imagery Correlates with Motor Imagery Ability in Stroke Patients. *ISRN Neurol*, 2012, 613595.
41. Inman CS, James GA, Hamann S, Rajendra JK, **Pagnoni G**, Butler AJ. Altered resting-state effective connectivity of fronto-parietal motor control systems on the primary motor network following stroke. *Neuroimage*, 2012, 59:227–237.
42. **Pagnoni G**. Dynamical properties of BOLD activity from the ventral posteromedial cortex associated with meditation and attentional skills. *J Neurosci*, 2012, 32(15):5242–5249.
43. Rilling J, DeMarco A, Hackett P, Thompson R, Ditzen B, Patel R, **Pagnoni G**. Effects of intranasal oxytocin and vasopressin on cooperative behavior and associated brain activity in men. *Psychoneuroendocrinology*, 2012, 37:447–461.
44. Inman CS, James GA, Hamann S, Rajendra JK, **Pagnoni G**, Butler AJ. Altered resting-state effective connectivity of fronto-parietal motor control systems on the primary motor network following stroke. *Neuroimage*, 2012, 59:227–237.
45. Raison CL, Borisov AS, Majer M, Drake DF, **Pagnoni G**, Woolwine BJ, Vogt GJ, Massung B, Miller AH. Activation of central nervous system inflammatory pathways by interferon-alpha: relationship to monoamines and depression. *Biol Psychiatry*, 2008, 65(4):296–303.
46. **Pagnoni G**, Cekic M, Guo Y. “Thinking about non-thinking”: neural correlates of conceptual processing during Zen meditation. *PLoS ONE*, 2008, 3(9):e3083.
47. Guo Y, **Pagnoni G**. A unified framework for group independent component analysis for multi-subject fMRI data. *Neuroimage*, 2008, 42(3):1078–93.
48. Majer M, Welberg LA, Capuron L, Miller AH, **Pagnoni G**, Reeves WC. Neuropsychological performance in persons with chronic fatigue syndrome: results from a population-based study. *Psychosomatic Medicine*, 2008, 70(7):829–36.
49. Rilling JK, Dagenais JE, Goldsmith DR, Glenn AL, **Pagnoni G**. Social cognitive neural networks during in-group and out-group interactions. *Neuroimage*, 2008, 41(4):1447–61.
50. Rilling JK, Lacreus A, Barks SK, Elfenbein HA, **Pagnoni G**, Votaw JR, Herndon JG. Effect of the menstrual cycle on resting brain glucose metabolism in female rhesus monkeys, *Neuroreport*, 2008, 19(5):537–41.
51. Majer M, Welberg LA, Capuron L, **Pagnoni G**, Raison CL, Miller AH. IFN-alpha-induced motor slowing is associated with increased depression and fatigue in patients with chronic hepatitis C. *Brain Behav Immun*, 2008, 22(6):870–80.

52. Rilling JK, Goldsmith DR, Glenn AL, Jairam MR, Elfenbein HA, Dagenais JE, Murdock CD, **Pagnoni G**. The neural correlates of the affective response to unreciprocated cooperation. *Neuropsychologia*, 2007, 46(5):1256–66.
53. Rilling JK, Barks SK, Parr LA, Preuss TM, Faber TL, **Pagnoni G**, Bremner JD, Votaw JR. A Comparison of Resting State Brain Activity in Humans and Chimpanzees. *Proc Natl Acad Sci U S A*, 2007, 104(43):17146–51.
54. **Pagnoni G**, Cekic M. Age effects on gray matter volume and attentional performance in Zen meditation. *Neurobiology of Aging*, 2007, 28(10):1623–7.
55. Capuron L, **Pagnoni G**, Demetrashvili M, Lawson DH, Fornwalt F, Woolwine BJ, Berns GS, Nemeroff CB, Miller AH. Basal Ganglia Hypermetabolism and Symptoms of Fatigue during Interferon-alpha Therapy. *Neuropsychopharmacology*, 2007, 32(11):2384–92.
56. Rilling JK, Glenn AL, Jairam MR, **Pagnoni G**, Goldsmith DR, Elfenbein HA, Lilienfeld SO. Neural correlates of social cooperation and non-cooperation as a function of psychopathy. *Biological Psychiatry*, 2007, 61(11): 1260–1271.
57. Berns GS, Chappelow J, Cekic M, Zink CF, **Pagnoni G**, Martin-Skurski ME. Neurobiologic Substrates of Dread. *Science*, 2006, 312(5774):754–8.
58. Zink CF, **Pagnoni G**, Chappelow JC, Martin-Skurski ME, Berns GS. Human striatal activation reflects degree of stimulus saliency. *Neuroimage*, 2006, 29(3):977–983.
59. Capuron L, **Pagnoni G**, Demetrashvili M, Woolwine BJ, Nemeroff CB, Berns GS, Miller AH. Anterior cingulate activation and error processing during interferon-alpha treatment. *Biol Psychiatry*, 2005, 58(3):190–196.
60. Berns GS, Chappelow JC, Zink CF, **Pagnoni G**, Martin-Skurski ME, Richards J. Neurobiological correlates of social conformity and independence during mental rotation. *Biol Psychiatry*, 2005, 58(3):245–253.
61. Zink CF, **Pagnoni G**, Martin-Skurski ME, Chappelow JC, Berns GS. Human striatal responses to monetary reward depend on saliency. *Neuron*, 2004, 42(3):509–517.
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63. Zink CF, **Pagnoni G**, Martin ME, Dhamala M, Berns GS. Human striatal response to salient nonrewarding stimuli. *J Neurosci*, 2003, 23(22):8092–8097.
64. Dhamala M, **Pagnoni G**, Wiesenfeld K, Zink CF, Martin M, Berns GS. Neural correlates of the complexity of rhythmic finger tapping. *Neuroimage*, 2003, 20(2):918–926.

65. Rilling JK, Gutman D, Zeh T, **Pagnoni G**, Berns GS, Kilts C. A neural basis for social cooperation. *Neuron*, 2002, 35(2):395-405.
66. Porro CA, Baraldi P, **Pagnoni G**, Serafini M, Facchin P, Maieron M, Nichelli P. Does anticipation of pain affect cortical nociceptive systems? *J Neurosci*, 2002, 22(8):3206-3214.
67. **Pagnoni G**, Zink CF, Montague PR, Berns GS. Activity in human ventral striatum locked to errors of reward prediction. *Nat Neurosci*, 2002, 5(2):97-98.
68. Montague PR, Berns GS, Cohen JD, McClure SM, **Pagnoni G**, Dhamala M, Wiest MC, Karpov I, King RD, Apple N, Fisher RE. Hyperscanning: simultaneous fMRI during linked social interactions. *Neuroimage*, 2002, 16(4):1159-1164.
69. Dhamala M, **Pagnoni G**, Wiesenfeld K, Berns GS. Measurements of brain activity complexity for varying mental loads. *Phys Rev E Stat Nonlin Soft Matter Phys*, 2002, 65(4 Pt 1):041917.
70. Calandra-Buonaura G, Basso G, Gorno-Tempini ML, Serafini M, **Pagnoni G**, Baraldi P, Porro CA, Nichelli P. Human brain language processing areas identified by functional magnetic resonance imaging using a lexical decision task. *Funct Neurol*, 2002, 17(4):183-191.
71. Gorno-Tempini ML, Pradelli S, Serafini M, **Pagnoni G**, Baraldi P, Porro CA, Nicoletti R, Umiltà C, Nichelli P. Explicit and incidental facial expression processing: an fMRI study. *Neuroimage*, 2001, 14(2):465-473.
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73. Baraldi P, Porro CA, Serafini M, **Pagnoni G**, Murari C, Corazza R, Nichelli P. Bilateral representation of sequential finger movements in human cortical areas. *Neurosci Lett*, 1999, 269(2):95-98.

BOOK CHAPTERS

1. **Pagnoni G** What can the free-energy principle tell us about meta-awareness, self, and consciousness? In *The Elephant in the Room — Investigating Consciousness Beyond Reductionism*, Eds: Carpentier C, Mascarello C, Mahajan A, Tormen F, Springer Nature, *in press*.
2. **Pagnoni G** In-active inference: contemplative practice as an (auto-)epistemic process. In *Dharma Today: Volti del Buddismo Contemporaneo*, Eds: Mascarello C, Tormen F, Pacini ME, Ubiliber, *in press*.
3. **Pagnoni G**, Guareschi FT. Meditative In-Action: an endogenous epistemic venture, in *Perspective on Consciousness*, Eds: Berkovich-Ohana A, Shulman E, Segev I, Segev N, Rudrauf D. The MIT Press, 2025.

4. Haroon E, **Pagnoni G**, Heim C, Berns GS, Mayberg H. Brain Imaging in Psychopharmacology, in *The American Psychiatric Publishing Textbook of Psychopharmacology*, Fourth Edition, Eds: Schatzberg AF and Nemeroff CB, American Psychiatric Publishing, Inc., 2009.
5. **Pagnoni G**, Berns GS. Brain imaging in Psychopharmacology, in *The American Psychiatric Publishing Textbook of Psychopharmacology*, Third Edition, Eds: Schatzberg AF and Nemeroff CB, American Psychiatric Publishing, Inc., 2003.
6. **Pagnoni G**. Metafore e neurofisiologia, in *La Metafora nelle Scienze Cognitive*, Ed: Morabito C, McGraw-Hill Libri Italia, Milano, 2002.

INVITED TALKS AND INVITED PARTICIPATION TO MEETINGS AND WORKSHOPS

- Invited talk at the *Inaugural Workshop on Active Inference in Italy: Free-Energy across engineering, complex systems and neuroscience*, Scuola Superiore Meridionale, Napoli, Italy. Title of the talk: “Probing mental effort with active inference”, June 23-24, 2026
- Invited participation at the 3rd Mind & Life Europe Workshop of the European Neurophenomenology, Contemplative, and Embodied Cognition Network (ENCECON): *Towards a Paradigm Shift*, Rangjung Yeshe Gomde, Austria, September 10-14, 2025.
- Invited talk at the international conference *Uncertainty: Navigating the Unpredictable in Cognition, Society, and Existence*, University of Zurich, Zurich, Switzerland. Title of the talk: “Uncertainty and Sentience”, March 5, 2025.
- Invited talk at the international conference *Passaggio a occidente — Algoritmi e Illuminazione: Intelligenza Artificiale, Coscienza e Mente*, Casa Schuster, Milan, Italy, October 19, 2024.
- Invited talk at the international conference *The Elephant in the Room: Investigating Consciousness beyond Reductionism*, University of Padova, Padua, Italy. Title of the talk: “What can the free-energy principle tell us about meta-awareness, self, and consciousness?”, February 21–23, 2024.
- Invited talk at the conference *Meditation, Antropology, and Cognition*, 2023, Museo Civico di Zoologia, Rome, Italy. Title of the talk: “Pragmatic and epistemic valence of meditative in-action”, December 4–5.
- Invited talk for the online conference cycle *Core Enaction* on the book ‘The Embodied Mind: Cognitive Science and Human Experience’ by Varela, Thompson & Rosch, organized by Mind & Life Europe. Title of the talk: “Chapter 5: Emergent Properties and Connectionism” https://www.youtube.com/live/2U_52k03jj8?si=IXwLRbsS1zv132aZ, April 25, 2023.

- Workshop *The computational approach to neuro-phenomenology*. Leiden, Netherlands, March 6–10, 2023.
- “Inferenza (In-)Attiva: aspetti pragmatici ed epistemici delle pratiche contemplative”. Talk at the Instituto of Mechanical Intelligence of the Sant’Anna School of Superior Studies, Pisa, Italy, February 20, 2022.
- Workshop *Embodied experience of intersubjectivity: exploring the boundaries between Self and Other* (ENCECON-ICP 2022). Le Reposoir, France, July 4–7, 2022.
- “In-active inference: the epistemic value of contemplative practice”. Webinar as part of the cycle of lectures *MLE Friends* of the Mind and Life Europe Institute, April 6, 2022.
- “La natura auto-epistemica dell’in-azione contemplativa”. Meeting *Dharma today: volti del buddhismo contemporaneo*, March 13, 2022, Palazzo Franchetti, Venice, Italy.
- “The act of inaction”. Online conference *Online CMC Contemplative Spring Institute* (CMC-CSI), April 29, 2021.
- “Seeing things ‘as they are’? Contemplative epistemology from the point of view of active inference”. Workshop *Perspectives on Consciousness*, Neve Shalom, Israel, February 20–22, 2020.
- Workshop *Mechanisms of Meditation and Applications in Clinical Practice*, Lorentz Center, Leiden, Netherlands, December 9–13, 2019.
- “Living in the present, seeing things as they are and the empty mind: our favorite ‘contemplatitudes’ through the lenses of predictive coding”. Workshop *European Neurophenomenology, Contemplative, and Embodied Cognition Network (ENCECON) Meeting*, Schloss Buchenau, Germany, June 11–15, 2019.
- “The contemplative act in the imaginative, prophetic business of the mind”. Meeting *International Conference on Meditation*, Allahabad, India, March 4–6, 2018.
- “Predictive coding as a theoretical framework for contemplative research”. Workshop *European Neurophenomenology, Contemplative, and Embodied Cognition Network (ENCECON) Meeting*, Château de la Bourlie, France, June 6–10, 2016.
- “Suspending judgment in the mental courtroom: meditation through the lense of predictive coding”. Workshop *Contemplative Summer Institute*, Karma Guen, Velez, Malaga, Spain, September 16–20, 2015.
- “Remembrance of things to come: the restless brain between memory and (self-fulfilling) prophecy”. Workshop *Mind and Life Summer Research Institute*, Garrison (NY), USA, June 16, 2014.
- “Remembrance of things to come: the restless brain between memory and (self-fulfilling) prophecy”. Meeting *Symposium on Mindfulness Research*, Radboud University, Nijmegen, Olanda, May 22, 2014.

- “The Self-Fulfilling Brain: Predictions, categories and what all this has to do with meditation”. Keynote lecture at the *First International Conference on Mindfulness*, Rome, Italy, May 8–12, 2013.
- Workshop *Models of consciousness and clinical implications*, Lorentz Center, Leiden, Netherlands, April 2–6, 2013.
- “The emptiness in mindfulness: an inquiry into the interaction of spontaneous thoughts and attentional processes during Zen meditation”. Workshop *Mind and Life Summer Research Institute*, Garrison, NY, USA, June 13, 2011.
- “Pensare il non-pensiero: uno studio sulle basi neurali dell’elaborazione concettuale nella meditazione”. *La mindfulness: radici contemplative, evidenze neuroscientifiche e applicazioni cliniche*, University of Rome “La Sapienza”, Department of Psychology, Rome, Italy, December 13, 2010.
- “Thinking about not-thinking: making sense of Zen meditation through the practice of neuroimaging”. Meeting *Neuroscience, Consciousness and Spirituality*, Freiburg, Germany, February 26, 2010.
- “Molto rumore per nulla? Dati recenti e interpretazione dell’attività cerebrale spontanea osservata con l’fMRI”. University of Modena and Reggio Emilia, Department of Biomedical Sciences, Modena, Italy, October 12, 2007.
- Seminar “La risonanza magnetica funzionale”, *Tecniche di ricerca sperimentale nelle neuroscienze cognitive*, third course of the Italian Psychology Association (API), Bertinoro (FC), Italy, October 8–10, 2007.
- “The Default Mode(s) of Meditation: Patterns of brain activity in the meditative state”. Meeting *From basic research to clinical interventions: cognitive-affective neuroscience and clinical applications of meditation*, University of Massachusetts Medical School, Worcester, MA, USA, March 29, 2007.
- “The askesis of meditation: neurophysiological hypothesis on Zen training”. Meeting *Aspects of Mind-Matter Research Symposium*, Wildbad Kreuth, Germany, June 25, 2003.
- “Imaging the brain in mood and neuropsychiatric disorders”. Meeting *Psychoneuroimmunology Research Society Meeting* (PNIRS), Amelia Island, FL, USA, June 6, 2003.
- “Uncertain Pleasures: Koolaid treats, brain imaging and other surprises”. Lecture for the cycle *Frontiers in Neuroscience*, Neuroscience graduate program, Emory University, Atlanta, GA, USA, April 26, 2002.

CONTRIBUTIONS TO INTERNATIONAL MEETINGS

- Maramotti R, Parr T, Tondelli M, Ballotta D, Zamboni G, **Pagnoni G**. Validation of an Active Inference model for the emotional Stroop task.

Jun 2026, Annual Meeting of the Organization for Human Brain Mapping (OHBM), Bordeaux, France

- Maramotti R, Parr T, Tondelli M, Ballotta D, Zamboni G, **Pagnoni G**. Voluntary modulation of mental effort: an Active Inference model. Jul 2025, Alzheimer's Association International Conference (AAIC), Toronto, Canada.
- Ballotta D, Maramotti R, Parr T, Carbone C, Iacovino N, Tondelli M, **Pagnoni G**, Zamboni G. Implicit awareness in Alzheimer's Disease: an Active Inference model. Jul 2025, Alzheimer's Association International Conference (AAIC), Toronto, Canada.
- Maramotti R, Ballotta D, Carbone C, Galligani C, **Pagnoni G**, Zamboni G, Tondelli M. Resting-state functional connectivity is altered in hyper-nosognosia within the Alzheimer's Disease continuum. Jun 2025, 31st Annual Meeting of the Organization for Human Brain Mapping (OHBM), Brisbane, Australia.
- Maramotti R, Parr T, Ballotta D, Carbone C, Iacovino N, Tondelli M, **Pagnoni G**, Zamboni G. An Active Inference model on implicit awareness in Alzheimer's disease. Jun 2025, 31st Annual Meeting of the Organization for Human Brain Mapping (OHBM), Brisbane, Australia.
- Ballotta D, Maramotti R, Borelli E, Lui F, **Pagnoni G**. Voluntary modulation of mental effort affects the attentional retraction induced by angry faces. *Human Brain Mapping* 2024, poster. Seoul, South Korea.
- Maramotti R, Parr T, Tondelli M, Ballotta D, Zamboni G, Manohar S, **Pagnoni G**. Modeling motivation in Stroop Task using Active Inference. 5th Optimization Techniques for Inverse Problems Workshop, 4-6 Sep 2024, poster. Modena, Italy.
- Carbone C, Maramotti R, Balboni E, Ballotta D, Bedin R, Tondelli M, Beltrami D, Gasparini F, Vinceti G, Marti A, Chiari A, Nocetti L, Pagnoni G, Zamboni G. The impact of Cognitive Reserve on cognitive performance in early onset Mild Cognitive Impairment, SINdem4Juniors Meeting, 14-16 Feb 2024, poster. Bressanone, Italy.
- Ballotta D, Borelli E, Lui F, **Pagnoni G**. Negative facial expressions induce a late attentional retraction. *Human Brain Mapping* 2022, poster. Glasgow, UK.
- Borelli E, Ballotta D, Lui F, **Pagnoni G**. Neural correlates of emotional valence for innate and culturally-acquired stimuli. *Human Brain Mapping* 2022, poster. Glasgow, UK.
- Soldate J, **Pagnoni G**, Lisinski J, LaConte S. Spatiotemporal vector representation for event-related multivoxel pattern analysis. *Human Brain Mapping* 2018, poster. Singapore.
- **Pagnoni G**, Khachouf O, Chen G. Neural and behavioral correlates of the voluntary investment of mental effort. *Human Brain Mapping* 2013, poster. Seattle (WA), USA.

- Rilling JK, DeMarco A, Hackett P, Thompson R, Ditzen B, Patel R, **Pagnoni G**. Effects of intranasal oxytocin and vasopressin on cooperative behavior and brain activity in men. Society for Neuroscience 2011, poster. Washington (DC), USA.
- Jones JF, Rajendra J, Drake DF, Miller AH, Unger ER, Tian H, **Pagnoni G**. Interaction of self- and illness-related cognitive processing in the right anterior insula of CFS patients: an fMRI study. International Association for Chronic Fatigue Syndrome 2011. Oral presentation (Dr. Jones).
- Miller AH, Jones JF, Drake DF, Tian H, Unger ER, **Pagnoni G**. Decreased Basal Ganglia Activation in CFS Subjects is Associated with Increased Fatigue. International Association for Chronic Fatigue Syndrome 2011, oral presentation (Dr. Miller).
- **Pagnoni G**. The BOLD duty cycle of the ventral posteromedial cortex during attention to breathing predicts attentional skills. Human Brain Mapping 2011, poster. Quebec City, Canada.
- Inman C, James GA, Hamann S, Rajendra J, **Pagnoni G**, Butler A. Exploratory SEM reveals altered resting-state motor control network connectivity following stroke. Human Brain Mapping 2010, poster. Barcelona, Spain.
- Baraldi P, Molinari E, Nocetti L, **Pagnoni G**, Porro CA. Parcellation of the human premotor cortex by multimodal MRI. Human Brain Mapping 2009, poster. San Francisco (CA), USA.
- Guo Y, **Pagnoni G**. A unified framework for group independent component analysis for multi-subject fMRI data. Human Brain Mapping 2009, poster. San Francisco (CA), USA.
- Sanchez M, Glasser M, Li W, **Pagnoni G**, Graff A, Zhang X, Hu X, Copp B. Microstructural development of the rhesus monkey brain: white matter maturation using diffusion tensor imaging. Society for Neuroscience 2008, poster. Washington (DC), USA.
- **Pagnoni G**, Drake DF, Capuron L, Miller AH. Changes in striatal dopamine function following interferon-alpha treatment in hepatitis-C patients fMRI Data. *Psychoneuroimmunology Research Society* 2007, poster. Arcachon, France.
- Confalonieri L, **Pagnoni G**, Rajendra JK, Barsalou LW, Butler AJ. Activity in contralesional somatosensory cortex during imagery of affected hand movement correlates with imagery ability in patients with stroke. *Human Brain Mapping* 2007, poster. Chicago (IL), USA.
- Guo Y, **Pagnoni G**, Bowman FD. Comparison of Methods of Group Independent Component Analysis for Multisubject. *Human Brain Mapping* 2007, poster. Chicago (IL), USA.
- **Pagnoni G**, Cekic M. Age-related changes in gray matter volume and attentional performance associated with the practice of Zen meditation. *Human Brain Mapping* 2007, poster. Chicago (IL), USA.

- **Pagnoni G**, Cekic M, Drake DF, Fornwalt FB, Raison CL, Berns GS. Topography and dynamics of resting state networks during meditation. *Society for Neuroscience* 2006, poster. Atlanta (GA), USA.
- **Pagnoni G**, Cekic M, Fornwalt FB, Berns GS. Topography and dynamics of resting state networks during meditation. *Human Brain Mapping* 2006, poster. Firenze, Italia.
- Capuron L, **Pagnoni G**, Fornwalt FB, Demetrashvili M, Woolwine BJ, Lawson DH, Nemeroff CB, Miller AH. Brain metabolic changes and neurovegetative symptoms in medically ill patients undergoing interferon-alpha therapy. *Society for Neuroscience* 2005, poster. Washington (DC), USA.
- **Pagnoni G**, Cekic M, Fornwalt FB, Martin-Skurski ME, Capuron L, Zink CF, Pearce BD, Raison CL, Berns GS. "Thinking about non-thinking": Zen meditation, attentional performance, and the default mode of brain function. *Society for Neuroscience* 2005, oral presentation. Washington (DC), USA.
- Zink CF, **Pagnoni G**, Chappelow JC, Martin-Skurski ME, Berns GS. Defining human striatal activations: a signal for stimulus salience. *Society for Neuroscience* 2005, poster. Washington (DC), USA.
- Zink CF, **Pagnoni G**, Chappelow JC, Martin-Skurski ME, Berns GS. Defining striatal activations: the role of unexpected change, novelty, and saliency. *Human Brain Mapping* 2005, poster. Toronto, Canada.
- **Pagnoni G**, Cekic M, Fornwalt FB, Martin-Skurski ME, Capuron L, Zink CF, Raison CL, Berns GS. "Thinking about non-thinking": Zen meditation, attentional performance and the default mode of brain function. *Human Brain Mapping* 2005, poster. Toronto, Canada.
- Rilling JK, Glenn AL, Jairam MR, **Pagnoni G**, Lilienfeld SO. Exploring the neural correlates of social cooperation and non-cooperation: the effect of sex and group membership. *Human Brain Mapping* 2005, poster. Toronto, Canada.
- Capuron L, **Pagnoni G**, Demetrashvili M, Woolwine B, Nemeroff CB, Berns GS, Miller AH. Effect of Interferon-alpha on regional brain activity during a task of visuo-spatial attention. *Society for Neuroscience* 2004, poster. San Diego (CA), USA.
- Capuron L, **Pagnoni G**, Demetrashvili M, Nemeroff CB, Berns GS, Miller AH. Fronto-parietal recruitment enables Interferon-alpha-treated patients to maintain normal performance on a task of visuo-spatial attention. *Collegium Internationale Neuro-Psychopharmacologicum* 2004, poster. Paris, France.
- Zink CF, **Pagnoni G**, Martin-Skurski ME, Chappelow JC, Berns GS. Human striatal responses to monetary reward depend on saliency. *Human Brain Mapping* 2004, poster. Budapest, Ungheria.

- Capuron L, **Pagnoni G**, Berns GS, Kilts CD, Nemeroff CB, Miller AH. Interferon-alpha-induced pallidal activation: relevance to depression in the medically ill. *American College of Neuropsychopharmacology* 2003, poster.
- Capuron L, **Pagnoni G**, Berns GS, Kilts CD, Nemeroff CB, Miller AH. Fronto-striatal dysfunction in medically ill patients undergoing Interferon-alpha therapy: from symptoms to neural correlates. *American Psychiatric Association* 2003, poster. San Francisco (CA), USA.
- Zink CF, **Pagnoni G**, Martin ME, Chappelw JC, Berns GS. Human striatal responses to monetary reward is task dependent. *Society For Neuroscience* 2003, poster. Orlando (FL), USA.
- **Pagnoni G**, Martin ME, Zink CF, Dhamala M, Berns GS. Decreased striatal response in heroin patients under methadone maintenance therapy. *Society for Neuroscience* 2002, Satellite Symposium: Mechanisms of Reward and Implications for Addiction, poster. Orlando (FL), USA.
- Zink CF, **Pagnoni G**, Martin ME, Dhamala M, Berns GS. Unexpected, behaviorally relevant events increases activity in the human striatum. *Society for Neuroscience* 2002, poster. Orlando (FL), USA.
- **Pagnoni G**, Capuron L, Nemeroff CB, Miller AH, Berns GS. Fronto-striatal dysfunction in patients with chronic hepatitis C undergoing IFN-alpha therapy: a study using functional magnetic resonance imaging (fMRI). *Society for Neuroscience* 2002, poster. Orlando (FL), USA.
- Capuron L, **Pagnoni G**, Lawon D, Demetrashvili M, Woolwine BJ, Kilts CD, Bremner JD, Nemeroff CB, Miller AH. Fronto-pallidal imbalance associated with high-dose interferon-alpha therapy in cancer patients. *Society for Neuroscience* 2002, poster. Orlando (FL), USA.
- Lui F, **Pagnoni G**, Baraldi P, Corazza R, Nichelli P, Porro CA. Cortical activity during voluntary and imagined daccades: an fMRI study. *Society for Neuroscience* 2000, poster. New Orleans (LA), USA.
- Porro CA, Baraldi P, **Pagnoni G**, Serafini M, Murari C, Nichelli P. Brain patterns of activity during anticipation of pain. *Human Brain Mapping* 2000, poster. San Antonio (TX), USA.
- Porro CA, Baraldi P, **Pagnoni G**, Serafini M, Murari C, Nichelli P. Cortical correlates of experimental somatic pain: a perceptual-based approach using fMRI. *IXth World Congress on Pain* 1999, poster. Vienna, Austria.
- Baraldi P, **Pagnoni G**, Serafini M, Murari C, Nichelli P, Porro CA. Cortical coding of temporal and intensive aspects of pain: echo-planar fMRI studies. *Human Brain Mapping* 1999, poster. Dusseldorf, Germania.
- Gorno Tempini ML, Pradelli S, **Pagnoni G**, Baraldi P, Serafini M, Porro C A, Nicoletti R, Umiltà C, Nichelli P. Neuroanatomical correlates of recognizing emotional faces. *Human Brain Mapping* 1999, poster. Dusseldorf, Germania.

- Baraldi P, Porro CA, Serafini M, **Pagnoni G**, Tavani F, Nichelli P. Cortical areas shared by contra- and ipsilateral sequential finger movements. *Human Brain Mapping* 1998, poster. Montreal, Canada.

PUBLIC ENGAGEMENT

- “Neuroscienze e meditazione”. Lecture to the students of Scuola Secondaria di I grado ‘G. Ferraris’, Modena, March 26, 2025
- “L’organo fantastico: come il cervello crea e interpreta il mondo”. Lecture to the students of Scuola Secondaria di I grado ‘G. Ferraris’, Modena, March 13, 2024.
- “Meditation: an active state?”. Interview for the podcast *The Contemplative Science Podcast* (Episode 43, <https://www.thecontemplativescientists.com/episodes/episode-43>), February 27, 2023.
- “Percezioni veridiche e illusorie nella teoria dell’inferenza attiva”. Public conference *Le Voci, L’Identità: Convegno sull’esperienza degli Uditori di Voci*, Reggio Emilia, Italy, September 26, 2022.
- “La teoria dell’inferenza attiva di Karl Friston: come il cervello-mente conosce (e costruisce) il mondo”. Public conference *Festival della neuroetica e del cervello sociale*, Cassino, Italy, October 1, 2022.
- “Il valore epistemico dell’in-azione contemplativa”. Public conference ECM, *Le frontiere della scienza contemplativa: psicoterapia, neuroscienze, mindfulness e dharma*, Rome, Italy, May 21, 2022.
- “Il principio dell’energia libera per sistemi senzienti”, talk for the online lectures series *Being Sapiens* (<https://beingsapiens.it/> by Gianandrea Giacomini, May 27, 2022 (<https://youtu.be/oMJ35I6Bq54>))
- “Pratica meditativa, funzioni cognitive e comportamentali”, talk for the online lectures series *Mindfulness e pratiche contemplative*, as part of the project *Medical Humanities*, ECM Regione Piemonte, June 14, 2021.
- “La coscienza e la mente predittiva”, online talk for the association ASIA Modena, in dialogue with Roberto Ferrari (https://youtu.be/EHd_XASqkYg), December 12, 2020.
- “Profetica-mente: l’attività cerebrale come processo predittivo-inferenziale”, online lecture for the *Festival della Cultura Tecnica di Reggio Emilia - terza edizione*, Reggio Emilia, Italy, December 3, 2020.
- “L’esercizio contemplativo nell’attività profetico-immaginale della mente”. Lecture at the public conference 2° *Giornata di studio in memoria del Dott. Stefano Setti — Mindfulness: prospettive di ricerca clinica e cura di sé*, Modena, Italy, November 23, 2018.
- “L’esercizio contemplativo nell’attività profetico-immaginale della mente”. Lecture at the public conference *Meditazione Buddhista e Neuroscienze*, University of Rome La Sapienza, Rome, Italy, April 14, 2018.

- “In quest’andar ch’è star inavvenir: codifica predittiva dei processi mentali e meditazione”. Lecture at the public seminar *Stati alterati di coscienza*, by the Scuola di Specializzazione di Psichiatria e dal CdL in Tecnica della Riabilitazione Psichiatrica, University of Modena and Reggio Emilia, Modena, Italy, 2016.
- “Codifica predittiva dei processi mentali e meditazione”. Lecture at the public conference 1° *Giornata di studio in memoria del Dott. Stefano Setti — Mindfulness: il cielo della mente*, Modena, Italy, November 20, 2015.
- “Codifica predittiva dei processi cognitivi”. Lecture at the public conference *Scienza e Meditazione*, Pavia, Italy, October 9–10, 2015.
- “Inquieta-mente, tra memoria e profezia: perché la Mindfulness funziona e perché è anche un rischio”. Lecture at the public conference *Mindfulness-Mania*, Milano, Italy, March 21, 2014.
- “Dynamic BOLD changes during meditation and attentional skills”. Lecture at the public conference *Brain Connectivity in Epilepsy and Sleep*. Camera di Commercio, Modena, Italy, November 21, 2013.
- “Molto rumore per nulla? Attività cerebrale intrinseca e percezione del mondo”. Lecture at the public conference *Fine dell’immagine: tra media, neuroscienze e filosofia*, Palazzo Ducale, Genova, Italy, May 27, 2013.
- “Attività cerebrale spontanea e attenzione nell’esercizio meditativo”. Lecture at the public conference *Neuro-riduzioni, possibilità e limiti: l’indagine dell’esperienza cosciente a partire da Neuromania*, University of Padua, Padua, Italy, July 10, 2012.

TEACHING ACTIVITIES

- Modelling of Neural Systems (Active Inference module). Master’s Degree in Bioengineering for Innovative Medicine, University of Modena and Reggio Emilia, Modena, Italy, 2025–present.
- Techniques and models for data analysis in psychobiological research. School of Psychological Sciences and Techniques, University of Modena and Reggio Emilia, Italy, 2017–present.
- Cardiovascular Physiology module within the course of Human Physiology and Physiopathology. School of Medicine, University of Modena and Reggio Emilia, Modena, Italy, 2008–presente.
- Medical-Scientific Methodologies. School of Medicine, University of Modena and Reggio Emilia, Modena, Italy, 2011–2023.
- Neuroscience of meditation. Master in “Mindfulness: practice, clinical aspects, and neuroscience”, Department of Psychology, University of Rome La Sapienza, Rome, Italy, 2015–presente.
- Meditation and the predictive mind. Master in “Meditation and Neuroscience”, University of Udine, Udine, Italy, 2020–presente.

- Cardiovascular Physiology module within the course of Human Physiology. School of Techniques of Cardiovascular Physiopathology and Perfusion, University of Modena and Reggio Emilia, Modena, Italy, 2008–2010.

CURRENT INTERNATIONAL COLLABORATIONS

- Prof. Antoine Lutz, Director of Research, co-leader of the EDUWELL team: Experiential Neurosciences and Mental Training. Lyon Neuroscience Research Center, INSERM U1028 - CNRS UMR5292, Centre Hospitalier Le Vinatier (Bât. 452), 95 Bd Pinel, 69675 Bron Cedex, France. Collaboration to several studies aimed at investigating the psychological and neural mechanisms associated with contemplative practices, especially from the theoretical perspective of active inference.

RESEARCH PROJECTS

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|-------|--|
| 2024– | <p>FAR Dipartimentale 2024 — Azione Ricerca Diffusa <i>Elaborazione e applicazione di un modello computazionale di Active Inference per la valutazione della metacognizione implicita della malattia nei pazienti con decadimento cognitivo</i></p> <p>Ente: Università di Modena e Reggio Emilia</p> <p>Ruolo: Co-PI</p> <p>Principal Investigator: M. Tondelli</p> |
| 2022– | <p>UnaWireD <i>Anosognosia and delusions in the diseased brain</i></p> <p>Funding agency: EC (ERC starting grant 2021)</p> <p>Role: key collaborator</p> <p>Principal Investigator: G. Zamboni</p> |
| 2022– | <p>FAR Dipartimentale <i>Inferential neuromorphic energy efficient systems - INES</i></p> <p>Funding agency: University of Modena and Reggio Emilia</p> <p>Role: Co-PI</p> <p>Principal Investigator: D. Gandolfi</p> |
| 2019– | <p>PRIN2017 <i>The good and the bad of sensory experience: understanding the impact of emotionally charged stimuli on cognition and behavior, and the brain's mechanisms to cope with them</i></p> <p>Funding agency: MIUR</p> <p>Role: Responsabile dell'Unità dell'Università di Modena e Reggio Emilia</p> <p>Principal Investigator: L. Chelazzi</p> |

- 2018–2022 Fisiopatologia, fattori predittivi di aggravamento e fenotipo cognitivo-comportamentale nel paziente con disturbo cognitivo lieve (Mild Cognitive Impairment, MCI). Parte del finanziamento “Dipartimento di Eccellenza” assegnato al Dipartimento di Scienze Biomediche, Metaboliche e Neuroscienze.
Funding agency: MIUR
Role: Investigator
Principal Investigator: Carlo A. Porro
- 2010–2012 *Neural and Behavioral Correlates of Mental Effort*
Funding agency: European Community (FP7-PEOPLE-2009-RG)
Role: Principal Investigator
- 2010–2014 *Neurobiological and Genetic Correlates of Cooperative Behavior*
Principal Investigator: J.K. Rilling
Role: Consultant
- 2006–2010 *CDC’s Chronic Fatigue Syndrome Research Program*
Principal investigator: W. Reeves / E. Unger
Funding agency: Center for Disease Control and Prevention (CDC)
Role: Co-investigator
- 2005–2007 *Mapping the social brain with fMRI and interactive games*
Principal Investigator: J.K. Rilling
Funding agency: National Science Foundation
Role: Co-investigator
- 2004–2009 *Cytokine-CRH interactions in IFN-alfa-induced depression*
Principal Investigator: C. Raison
Funding agency: National Institute of Mental Health (NIMH)
Role: Co-investigator
- 2004–2007 *Mental imagery to reduce motor deficits in stroke*
Principal Investigator: A. Butler
Funding agency: National Center for Complementary and Alternative Medicine (NCCAM)
Role: Co-investigator
- 2004 *Neural and autonomic correlates of Zen meditation: effects of training on a sustained focused attentional task*
Role: Principal Investigator

	Funding agency: Emory University Center for Research on Complementary and Alternative Medicine in Neurodegenerative Diseases
2003–2008	<i>The neurobiology of uncertainty</i> Principal Investigator: G. Berns Funding agency: National Institute on Drug Abuse (NIDA) Role: Co-investigator
2003–2008	<i>Fronto-striatal dysfunction in IFN alpha-induced depression</i> Principal Investigator: A. Miller Funding agency: National Institute of Mental Health (NIMH) Role: Co-investigator
2000–2005	<i>Integration of bifurcation theory and continuous fMRI</i> Principal Investigator: G. Berns Funding agency: National Institute of Biomedical Imaging and BioEngineering (NIBIB) Role: Co-investigator

DATI PERSONALI

I authorize the treatment of my personal data within the norms contained in the Decreto Legislativo, June 30, 2003, n. 196 “Codice in materia di protezione dei dati personali”.

I hereby acknowledge that the present curriculum vitae will be published on the University institutional website, under the Section “Amministrazione trasparente”, in the modality and for the duration described in the Decreto Legislativo n. 33/2013, art. 15.