

CURRICULUM VITAE

GIUSEPPE PAGNONI

July 2, 2026

STUDI E FORMAZIONE

2020	Abilitazione nazionale a Professore di Prima Fascia, settore concorsuale 05/D1, quinto quadrimestre. Validità dal 18/11/2020 al 18/11/2032.
2015–presente	Professore Associato presso il Dip. di Scienze Biomediche, Metaboliche e Neuroscienze, Università di Modena e Reggio Emilia.
2008–2015	Ricercatore presso il Dip. di Scienze Biomediche, Metaboliche e Neuroscienze, Università di Modena e Reggio Emilia.
2002–2008	Assistant Professor presso il Dept. of Psychiatry and Behavioral Sciences, Emory University, Atlanta, GA.
2000–2002	Postdoc Fellowship negli Stati Uniti presso il Dept. of Psychiatry and Behavioral Sciences, Emory University, Atlanta, GA.
1998–1999	Borsa di Ricerca del Dipartimento di Scienze e Tecnologie Biomediche, Università di Udine (Tutor: Prof. Carlo A. Porro).
1994–1998	Dottorato in Neuroscienze, Università di Parma (Direttori: Prof. Giacomo Rizzolatti e Ruggero Corazza). Tesi: <i>Percezione ‘semantica’ e percezione ‘esplorativa’: uno studio di imaging funzionale sul riconoscimento implicito di stimoli visivi.</i>
1992	Laurea in Fisica, Università di Modena.

RICERCA

Neuroimaging funzionale sull'uomo. Applicazione della teoria dell'inferenza attiva e della elaborazione predittiva (Bayesiana) alla modellizzazione dell'attività di circuiti neurali e processi cognitivi. Attività cerebrale intrinseca e sua rilevazione mediante tecniche di neuroimaging funzionale guidate dai dati. Studio dei correlati neurofisiologici delle pratiche meditative. Basi neurali dello sforzo mentale in individui sani e nella sindrome di affaticamento cronico. Ruolo dei gangli della base nei meccanismi di ricompensa e previsione. Meccanismi centrali della percezione del dolore. Interazione di funzione immunitaria, processi cognitivi e umore nel modello dell'interferone-alfa. Imaging funzionale di modelli di cognizione sociale. Alterazione dei processi cognitivi e neurali nelle demenze neurodegenerative.

INDICI BIBLIOMETRICI (SCOPUS, LUGLIO 2026)

h-index: 39

Number of articles: 79

Sum of times cited: 9114

ARTICOLI IN RIVISTE INTERNAZIONALI

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.
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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.

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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.
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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.
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CAPITOLI DI LIBRI

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.
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6. **Pagnoni G**. Metafore e neurofisiologia. In *La Metafora nelle Scienze Cognitive*, Ed: Morabito C. McGraw-Hill Libri Italia, Milano, 2002.

PRESENTAZIONI ORALI E PARTECIPAZIONI AD INVITO A SEMINARI E CONVEGNI

- Intervento a invito al convegno internazionale *Inaugural Workshop on Active Inference in Italy: Free-Energy across engineering, complex systems and neuroscience*, Scuola Superiore Meridionale, Napoli. Titolo dell'intervento: "Probing mental effort with active inference", 23-24 giugno, 2026.
- Partecipazione a invito al seminario di studi *3rd Mind & Life Europe Workshop of the European Neurophenomenology, Contemplative, and Embodied Cognition Network (ENCECON): Towards a Paradigm Shift*, Rangjung Yeshe Gomde, Austria, 10-14 settembre, 2025.
- Intervento a invito al convegno internazionale *Uncertainty: Navigating the Unpredictable in Cognition, Society, and Existence*, 5 marzo 2025, University of Zurich, Zurich, Svizzera. Titolo dell'intervento: "Uncertainty and Sentience"
- Intervento a invito al convegno pubblico *Passaggio a occidente — Algoritmi e Illuminazione: Intelligenza Artificiale, Coscienza e Mente*, 19 ottobre 2024, Casa Schuster, Milano.
- Intervento a invito al convegno internazionale *The Elephant in the Room: Investigating Consciousness beyond Reductionism*, 21-23 febbraio 2024, Università di Padova, Padova. Titolo dell'intervento: "What can the free-energy principle tell us about meta-awareness, self, and consciousness?"
- Intervento a invito al convegno pubblico *Meditazione, Antropologia e Cognizione*, 4-5 dicembre 2023, Museo Civico di Zoologia, Roma. Titolo dell'intervento: "Valenza pragmatica ed epistemica dell'in-azione meditativa"
- Intervento a invito per per il ciclo di conferenze online *Core Enaction* sul testo 'The Embodied Mind: Cognitive Science and Human Experience' di Varela, Thompson & Rosch, organizzato da Mind & Life Europe. Titolo dell'intervento: "Chapter 5: Emergent Properties and Connectionism" https://www.youtube.com/live/2U_52k03jj8?si=IXwLRbsS1zv132aZ, April 25, 2023.

- Seminario di studi *The computational approach to neuro-phenomenology*. Leiden, Netherlands, 6–10 marzo 2023.
- “Inferenza (In-)Attiva: aspetti pragmatici ed epistemici delle pratiche contemplative”. Lezione presso l'Istituto di Intelligenza Meccanica della Scuola di Studi Superiori Sant'Anna, Pisa, 20 febbraio 2022.
- Seminario di studi *Embodied experience of intersubjectivity: exploring the boundaries between Self and Other* (ENCECON-ICP 2022). Le Reposoir, Francia, 4–7 luglio 2022.
- “In-active inference: the epistemic value of contemplative practice”. Webinar per il ciclo *MLE Friends* del Mind & Life Europe, 6 aprile 2022.
- “La natura auto-epistemica dell'in-azione contemplativa”. Convegno *Dharma Today: Volti del Buddismo Contemporaneo*, Palazzo Franchetti, Venezia, 13 marzo 2022.
- “The act of inaction”. Conferenza in streaming *Online CMC Contemplative Spring Institute* (CMC-CSI), 29 aprile 2021.
- “Seeing things ‘as they are’? Contemplative epistemology from the point of view of active inference”. Seminario di studi *Perspectives on Consciousness*, Neve Shalom, Israele, 20–22 febbraio 2020.
- Seminario di studi *Mechanisms of Meditation and Applications in Clinical Practice*, Lorentz Center, Leiden, Netherlands, 9–13 Dicembre 2019.
- “Living in the present, seeing things as they are and the empty mind: our favorite ‘contemplatitudes’ through the lenses of predictive coding”. Seminario di studi *European Neurophenomenology, Contemplative, and Embodied Cognition Network (ENCECON) Meeting*, Schloss Buchenau, Germania, 11–15 giugno, 2019.
- “The contemplative act in the imaginative, prophetic business of the mind”. Convegno *International Conference on Meditation*, Allahabad, India, 4–6 marzo 2018.
- “Predictive coding as a theoretical framework for contemplative research”. Seminario di studi *European Neurophenomenology, Contemplative, and Embodied Cognition Network (ENCECON) Meeting*, Château de la Bourlie, Francia, 6–10 giugno, 2016.
- “Suspending judgment in the mental courtroom: meditation through the lense of predictive coding”. Seminario di studi *Contemplative Summer Institute*, Karma Guen, Velez, Malaga, Spagna, 16–20 settembre 2015.
- “Remembrance of things to come: the restless brain between memory and (self-fulfilling) prophecy”. Seminario di studi *Mind and Life Summer Research Institute*, Garrison (NY), USA, 16 giugno 2014.
- “Remembrance of things to come: the restless brain between memory and (self-fulfilling) prophecy”. Convegno *Symposium on Mindfulness Research*, Radboud University, Nijmegen, Olanda, 22 maggio 2014.

- “The Self-Fulfilling Brain: Predictions, categories and what all this has to do with meditation”. Lezione magistrale al convegno *First International Conference on Mindfulness*, Roma, 8–12 maggio 2013.
- Seminario di studi *Models of consciousness and clinical implications*, Lorentz Center, Leiden, Netherlands, 2–6 aprile 2013.
- “The emptiness in mindfulness: an inquiry into the interaction of spontaneous thoughts and attentional processes during Zen meditation”. Seminario di studi *Mind and Life Summer Research Institute*, Garrison, NY, USA, 13 giugno 2011.
- “Pensare il non-pensiero: uno studio sulle basi neurali dell’elaborazione concettuale nella meditazione”. *La mindfulness: radici contemplative, evidenze neuroscientifiche e applicazioni cliniche*, Università di Roma “La Sapienza”, Dipartimento di Psicologia, Roma, 13 dicembre 2010.
- “Thinking about not-thinking: making sense of Zen meditation through the practice of neuroimaging”. Convegno *Neuroscience, Consciousness and Spirituality*, Freiburg, Germania, 26 febbraio 2010.
- “Molto rumore per nulla? Dati recenti e interpretazione dell’attività cerebrale spontanea osservata con l’fMRI”. Università di Modena e Reggio Emilia, Dipartimento di Scienze Biomediche, Modena, 12 ottobre 2007.
- Seminario “La risonanza magnetica funzionale”, *Tecniche di ricerca sperimentale nelle neuroscienze cognitive*, terzo corso della Associazione Psicologia Italiana (API), Bertinoro (FC), 8–10 ottobre 2007.
- “The Default Mode(s) of Meditation: Patterns of brain activity in the meditative state”. Convegno *From basic research to clinical interventions: cognitive-affective neuroscience and clinical applications of meditation*, University of Massachusetts Medical School, Worcester, MA, USA, 29 marzo 2007.
- “The askesis of meditation: neurophysiological hypothesis on Zen training”. Convegno *Aspects of Mind-Matter Research Symposium*, Wildbad Kreuth, Germania, 25 giugno 2003.
- “Imaging the brain in mood and neuropsychiatric disorders”. Convegno *Psychoneuroimmunology Research Society Meeting* (PNIRS), Amelia Island, FL, USA, 6 giugno 2003.
- “Uncertain Pleasures: Koolaid treats, brain imaging and other surprises”. Seminario per il ciclo *Frontiers in Neuroscience*, Neuroscience graduate program, Emory University, Atlanta, GA, USA, 26 aprile 2002.

COMUNICAZIONI A CONFERENZE INTERNAZIONALI

- 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. Presentazione orale (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, presentazione orale (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, presentazione orale. 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, Chappelow 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.

ATTIVITÀ DI TERZO SETTORE

- “Neuroscienze e meditazione”. Lezione agli studenti della Scuola Secondaria di I grado ‘G. Ferraris’, Modena, 26 marzo 2025
- “L’organo fantastico: come il cervello crea e interpreta il mondo”. Lezione agli studenti della Scuola Secondaria di I grado ‘G. Ferraris’, Modena, 13 marzo 2024
- “Meditation: an active state?”. Intervista per il podcast *The Contemplative Science Podcast* (Episodio 43, <https://www.thecontemplativescientists.com/episodes/episode-43>), 27 febbraio 2023.
- “Percezioni veridiche e illusorie nella teoria dell’inferenza attiva”. Convegno pubblico *Le Voci, L’Identità: Convegno sull’esperienza degli Uditori di Voci*, Reggio Emilia, 26 settembre 2022.
- “La teoria dell’inferenza attiva di Karl Friston: come il cervello-mente conosce (e costruisce) il mondo”. Convegno pubblico *Festival della neuroetica e del cervello sociale*, Cassino, 1 ottobre 2022.
- “Il valore epistemico dell’in-azione contemplativa”. Convegno pubblico ECM, *Le frontiere della scienza contemplativa: psicoterapia, neuroscienze, mindfulness e dharma*, Roma, 21 maggio 2022.
- “Il principio dell’energia libera per sistemi senzienti”, per il ciclo di lezioni in streaming *Being Sapiens* (<https://beingsapiens.it/> diretto da Gianandrea Giacomini. Episodio del 27 maggio 2022 (<https://youtu.be/oMJ35I6Bq54>))
- “Pratica meditativa, funzioni cognitive e comportamentali”. Seminario in streaming *Mindfulness e pratiche contemplative*, per il ciclo Medical Humanities, ECM Regione Piemonte, 14 giugno 2021
- “La coscienza e la mente predittiva”, intervento pubblico in streaming per il centro ASIA di Modena, in dialogo con Roberto Ferrari (https://youtu.be/EHd_XASqkYg), 12 dicembre 2020.
- “Profetica-mente: l’attività cerebrale come processo predittivo-inferenziale”. *Festival della Cultura Tecnica di Reggio Emilia - terza edizione*, in streaming 3 dicembre 2020.
- “L’esercizio contemplativo nell’attività profetico-immaginale della mente”. Convegno pubblico, 2° Giornata di studio in memoria del Dott. Stefano Setti, *Mindfulness: prospettive di ricerca clinica e cura di sé*, Modena, 23 novembre 2018.

- “L’esercizio contemplativo nell’attività profetico-immaginale della mente”. Convegno pubblico *Meditazione Buddhista e Neuroscienze*, Università della Sapienza, Roma, 14 aprile 2018.
- “In quest’andar ch’è star inavvenir: codifica predittiva dei processi mentali e meditazione”. Seminario scientifico-clinico pubblico *Stati alterati di coscienza*, organizzato dalla Scuola di Specializzazione di Psichiatria e dal CdL in Tecnica della Riabilitazione Psichiatrica, Università di Modena e Reggio Emilia, Modena, 2016.
- “Codifica predittiva dei processi mentali e meditazione”. Convegno pubblico, 1° Giornata di studio in memoria del Dott. Stefano Setti, *Mindfulness: il cielo della mente*, Modena, 20 novembre 2015.
- “Codifica predittiva dei processi cognitivi”, convegno *Scienza e Meditazione*, Pavia, 9–10 ottobre 2015.
- “Inquietamente, tra memoria e profezia: perché la Mindfulness funziona e perché è anche un rischio”. Convegno pubblico *Mindfulness-Mania*, Milano, 21 marzo 2014.
- “Dynamic BOLD changes during meditation and attentional skills”. Convegno pubblico *Brain Connectivity in Epilepsy and Sleep*. Camera di Commercio, Modena, 21 novembre 2013.
- “Molto rumore per nulla? Attività cerebrale intrinseca e percezione del mondo”. *Fine dell’immagine: tra media, neuroscienze e filosofia*, Palazzo Ducale, Genova, 27 maggio 2013.
- “Attività cerebrale spontanea e attenzione nell’esercizio meditativo”. Convegno pubblico, *Neuro-riduzioni, possibilità e limiti: l’indagine dell’esperienza cosciente a partire da Neuromania*, Università di Padova, Padova, 10 luglio 2012.

ATTIVITÀ DIDATTICA

- Modellizzazione dei sistemi neurali (modulo di Inferenza Attiva). Corso di laurea magistrale in Bioingegneria per l’Innovazione in Medicina, Università di Modena e Reggio Emilia, 2025–presente.
- Metodologie Medico-Scientifiche di Base, Corso di Laurea in Medicina e Chirurgia, Università di Modena e Reggio Emilia, 2011–presente.
- Strumenti e modelli di analisi dei dati nella ricerca psicobiologica, Corso di Laurea in Scienze e Tecniche Psicologiche, Università di Modena e Reggio Emilia, 2017–2023.
- Fisiologia cardiovascolare nel Corso Integrato di Fisiologia Umana e Fisiopatologia, Corso di Laurea in Medicina e Chirurgia, Università di Modena e Reggio Emilia, 2008–presente.

- Neuroscienze della meditazione, Master in “Mindfulness: pratica, clinica e neuroscienze”, Dipartimento di Psicologia, Università di Roma, La Sapienza, 2015–presente.
- Meditazione e mente predittiva, Master in “Meditazione e Neuroscienze”, Università di Udine, 2018, 2020–presente.
- Fisiologia cardiovascolare nel corso di Fisiologia Umana, Corso di Laurea Triennale di Tecniche di Fisiopatologia Cardiocircolatoria e Perfusionamento Cardiovascolare, anno II, Università di Modena e Reggio Emilia, 2008–2010.

COLLABORAZIONI INTERNAZIONALI IN CORSO

- 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. Collaborazione a diversi studi diretti ad indagare i meccanismi neurali e psicologici associati alle pratiche contemplative, soprattutto dalla prospettiva teorica dell’inferenza attiva.

PROGETTI DI RICERCA

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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>Ente: EC (ERC starting grant 2021)</p> <p>Ruolo: key collaborator</p> <p>Principal Investigator: G. Zamboni</p> |
| 2022– | <p>FAR Dipartimentale <i>Inferential neuromorphic energy efficient systems - INES</i></p> <p>Ente: Università di Modena e Reggio Emilia</p> <p>Ruolo: 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> |

	Ente: MIUR Ruolo: Responsabile dell'Unità dell'Università di Modena e Reggio Emilia Principal Investigator: L. Chelazzi
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. Ente: MIUR Ruolo: Investigator Principal Investigator: Carlo A. Porro
2010–2012	<i>Neural and Behavioral Correlates of Mental Effort</i> Ente: European Community (FP7-PEOPLE-2009-RG) Ruolo: principal investigator
2010–2014	<i>Neurobiological and Genetic Correlates of Cooperative Behavior</i> Principal Investigator: J.K. Rilling Ruolo: consultant
2006–2010	<i>CDC's Chronic Fatigue Syndrome Research Program</i> Principal investigator: W. Reeves / E. Unger Ente: Center for Disease Control and Prevention (CDC) Ruolo: co-investigator
2005–2007	<i>Mapping the social brain with fMRI and interactive games</i> Principal Investigator: J.K. Rilling Ente: National Science Foundation Ruolo: co-investigator
2004–2009	<i>Cytokine-CRH interactions in IFN-alfa-induced depression</i> Principal Investigator: C. Raison Ente: National Institute of Mental Health (NIMH) Ruolo: co-investigator
2004–2007	<i>Mental imagery to reduce motor deficits in stroke</i> Principal Investigator: A. Butler Ente: National Center for Complementary and Alternative Medicine (NCCAM) Ruolo: co-investigator

- 2004 *Neural and autonomic correlates of Zen meditation: effects of training on a sustained focused attentional task*
 Ruolo: principal investigator
 Ente: Emory University Center for Research on Complementary and Alternative Medicine in Neurodegenerative Diseases
- 2003–2008 *The neurobiology of uncertainty*
 Principal Investigator: G. Berns
 Ente: National Institute on Drug Abuse (NIDA)
 Ruolo: co-investigator
- 2003–2008 *Fronto-striatal dysfunction in IFN alpha-induced depression*
 Principal Investigator: A. Miller
 Ente: National Institute of Mental Health (NIMH)
 Ruolo: co-investigator
- 2000–2005 *Integration of bifurcation theory and continuous fMRI*
 Principal Investigator: G. Berns
 Ente: National Institute of Biomedical Imaging and BioEngineering (NIBIB)
 Ruolo: co-investigator

DATI PERSONALI

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 “Codice in materia di protezione dei dati personali”.

Il sottoscritto dichiara di essere consapevole che il presente curriculum vitae sarà pubblicato sul sito istituzionale dell’Ateneo, nella Sezione “Amministrazione trasparente”, nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.