

Informazioni personali

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Data di nascita 24.07.1966
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Contatti - Lavoro

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Carriera – Posizione Attuale

Dal 2012 **Professore Ordinario in Filosofia della Scienza**, *Dipartimento di Filosofia 'Piero Martinetti', Università degli Studi di Milano.*

Carriera – Posizioni precedenti, Fellowship e appartenenza a Scuole Dottorali

2015-17 **Presidente del Comitato di Direzione di Studi Umanistici**, *Università degli Studi di Milano.*
2014-15 **Referente del Dottorato in Filosofia e Scienze dell'Uomo**, *Università degli Studi di Milano*
2012 **Professorial Fellowship**, *Ecole Normale Supérieure de Lyon.*
2011 **Professorial Fellowship**, *Institute of Philosophy, School of Advanced Study, University of London*
2005-12 **Professore Associato in Filosofia della Scienza**, *Dipartimento di Filosofia 'Piero Martinetti', Università degli Studi di Milano.*
2007-13 **Membro del Dottorato in Foundations of Life Sciences and their Ethical Consequences**, *Università degli Studi di Milano, IFOM/IEO.*
2011-13 **Membro del Dottorato in Neuroscienze**, *Dipartimento di Neuroscienze, Università degli Studi di Parma.*
2005-10 **Membro del Dottorato in Filosofia**, *Università degli Studi di Milano.*
2001-5 **Ricercatore in Filosofia della Scienza**, *Dipartimento di Filosofia 'Piero Martinetti', Università degli Studi di Milano.*

Formazione

1995-2000 **Dottorato di Ricerca in Filosofia della Scienza**, *Università degli Studi di Genova.*
1994-5 **Research Fellowship**, *Ecole Normale Supérieure, Paris (Francia)*
1992-4 **Research Fellowship**, *Husserl Archive, Università Cattolica di Lovanio (Belgio)*
1991 **Laurea in Filosofia** (110/100 cum laude), *Università degli Studi di Milano*

Interessi di ricerca

Ambiti di ricerca: Filosofia della Scienza, Filosofia della mente, Neuroscience Cognitive.
Ricerca attuale: Azione collettiva, Cognizione sociale, Rappresentazione dello spazio, Sé corporeo.

Grant Recenti

2017-20 **PRIN** *The Cognitive Neuroscience of Interpersonal Coordination and Cooperation: a Motor Approach in Human and Non-Human Primates* – Responsabile unità locale.
2018-19 **BIAL Foundation Grant Program** *The Motor Roots of Acting Together: a Psychophysiological Investigation* – PI con Marta Bortoletto
2015-17 **Transition Grant** *Coordination around Goals* – PI.
2013-15 **British Academy / Leverhulme Small Grant** *Motor Planning and Practical Reasoning* – PI con Steven Butterfill
2011-14 **Marie Curie Project TESIS** *Embodied Intersubjectivity* – Membro del Nodo di Parma.
2009-12 **Multi-Research Grant** *Action Representations and their Impairment. Sponsored by Fondazione San Paolo (Torino)* – co-PI Unità di Parma.
2007-9 **PRIN** *Intentional Understanding & Social Cognition: Neural Basis, Biological Models and Epistemological Issues* – Responsabile unità locale.
2006-9 **EUROCORES Program** *'Consciousness in a Natural and Cultural Context (CNCC)'* – ESF European Science Foundation – Membro unità di Parma.

Appartenenza a Società Scientifiche

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| 2014-oggi | European Society of Philosophy and Psychology – Membro del Comitato Direttivo |
| 2014-2016 | Società Italiana di Logica e Filosofia delle Scienze - Membro del Comitato Direttivo |
| 2012-2014 | Center for the Epistemology of Cognitive Sciences (Ecole Normale Supérieure de Lyon) – Membro del Comitato Scientifico |
| 2011-2014 | Center for the Study of the Senses: CenSes (Institute of Philosophy, School for Advanced Study, London) - Membro del Comitato Scientifico |
| 2008-2011 | Società Italiana di Logica e Filosofia delle Scienze - Membro del Comitato Direttivo |
| 2002-oggi | Piero Caldirola International Centre for Promotion of Science – Membro del Comitato Direttivo |

Servizi accademici

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| <i>Editorial Board</i> | Review of Philosophy and Psychology, Mind & Society |
| <i>Academic Editor</i> | PlosOne |
| <i>Pool of Reviewers</i> | European Science Foundation |
| <i>Reviewer</i> | Philosophy and Phenomenological Research, Synthese, Mind, Cells, Proceedings of the National Academy of Sciences of the United States of America, Cortex, Journal of Neuroscience, Journal of Neurophysiology, Scientific Reports, PlosOne, Journal of Consciousness Studies, Phenomenology and the Cognitive Sciences, Philosophical Psychology, Connection Science, BMJ Case Report, Review of Philosophy and Psychology, Neuroscience Letters, Experimental Brain Research. |

Pubblicazioni (selezione)

- D. Quarona, M. Raffuzzi, M. Costantini & **C. Sinigaglia** (2020) Preventing action slows down performance in perceptual judgment. *Experimental Brain Research* 10.1007/s00221-020-05948-y.
- L. Casartelli, A. Federici, L. Fumagalli, A. Cesareo, M. Nicoli, L. Ronconi, A. Vitale, M. Molteni, G. Rizzolatti & **C. Sinigaglia** (2020) Neurotypical individuals fail to understand action vitality form in children with autism spectrum disorder. *Proceedings of the National Academy of Sciences of the United States of America* 10.1073/pnas.2011311117.
- L. Casartelli, A. Cesareo, E. Biffi, G.C. Campione, L. Villa, M. Molteni & **C. Sinigaglia** (2020) Vitality form expression in autism. *Scientific Report* 10.1038/s41598-020-73364-x.
- C. Sinigaglia** & S. Butterfill (2020) Motor representation and knowledge of skilled action. In E. Fridland & C. Pavese (eds.) *Routledge Handbook on Skill and Expertise*. Routledge, Oxford-New York: Chapter 22, 292-305.
- C. Sinigaglia** & S. Butterfill (2020) Motor representation and action experience in joint action. In A. Fiebich (ed.) *Minimal Cooperation and Shared Agency*. Springer, Dordrecht: Chapter 11, 181-193.
- M. Costantini, L. Tommasi & **C. Sinigaglia** (2019) How action performance affects object perception. *Experimental Brain Research* <https://doi.org/10.1007/s00221-019-05547-6>.
- G. Rizzolatti & **C. Sinigaglia** (2019) *Specchi nel cervello. Come comprendiamo gli altri dall'interno*. Raffaello Cortina, Milano.
- V. Gallese & **C. Sinigaglia** (2018) Embodied Resonance. In A. Newen, L. de Bruin & S. Gallagher (eds.) *The Oxford Handbook of 4E Cognition*. Oxford University Press, Oxford UK: 417-432.
- E. Ricciardi, D. Menicagli, A. Leo, M. Costantini, P. Pietrini & **C. Sinigaglia** (2017) Peripersonal space representation develops independently from visual experience. *Scientific Reports* 7: 17673 DOI:10.1038/s41598-017-17896-9
- F. della Gatta, F. Garbarini, M. Rabuffetti, L. Viganò, S. Butterfill & **C. Sinigaglia** (2017) Drawn together: When motor representations ground joint actions. *Cognition* 165C: 53-60.
- G. Rizzolatti & **C. Sinigaglia** (2016) The mirror mechanism: a basic principle of brain function. *Nature Reviews Neuroscience* doi:10.1038/nrn.2016.135.
- C. Sinigaglia** & S. Butterfill (2015) A puzzle about the relations between thought, experience, and the motoric. *Synthese*, 192 (6): 1923-1936.
- C. Sinigaglia** & S. Butterfill (2015) Motor representation in goal ascription. In M.H. Fischer & Y. Coello (eds.) *Conceptual and Interactive Embodiment. Foundations of Embodied Cognition*, vol. II. Routledge, Oxford UK: 149-164.
- C. Sinigaglia** & G. Rizzolatti (2015) The space of mirrors. In P.F. Ferrari & G. Rizzolatti (eds.) *New Frontiers in Mirror Neurons Research*. Oxford University Press, New York: 331-347.
- S. Butterfill & **C. Sinigaglia** (2014) Intention and motor representation in purposive action. *Philosophy and Phenomenological Research*, 88 (1): 119-145.
- V. Gallese & **C. Sinigaglia** (2014), Understanding action within the motor system. *Brain and Behavioral Sciences*, 36 (2): 199-200.

- G. Di Cesare, C. Di Dio, M.J. Rochat, **C. Sinigaglia**, N. Bruschweiler-Stern, D. Stern, G. Rizzolatti (2014) The neural correlates of vitality form recognition: an fMRI study. *Social Cognitive and Affective Neuroscience* 9 (7): 951-60.
- M. Costantini, E. Ambrosini, P. Cardellicchio & C. Sinigaglia (2014) How your hand drives my eyes. *Social Cognitive and Affective Neuroscience*, 9 (5):705-11.
- E. Ambrosini, V. Reddy, A. de Looper, M. Costantini, B. Lopez & **C. Sinigaglia** (2013) Looking ahead: anticipatory gaze and motor ability in infancy. *PLoS ONE*, 8 (7):e67916.
- M.J. Rochat, V. Veroni, N. Bruschweiler-Stern, C. Pieraccini, F. Bonnet-Brilhault, C. Barthélemy, J. Malvy, **C. Sinigaglia**, D. Stern, G. Rizzolatti (2013) Impaired vitality form recognition in autism. *Neuropsychologia*, 51 (10): 1918-1924.
- G. Tessitore, **C. Sinigaglia**, R. Prevede (2013) Hierarchical and multiple hand action representation using temporal postural synergies. *Experimental Brain Research* doi: 10.1007/s00221-012-3344-9.
- G. Hickok & **C. Sinigaglia** (2013) Clarifying the role of the mirror system. *Neuroscience Letters* doi: 10.1016/j.neulet.2012.11.029.
- C. Sinigaglia** (2013) What type of action understanding is subserved by mirror neurons? *Neuroscience Letters* doi: 10.1016/j.neulet.2012.10.016.
- V. Gallese & **C. Sinigaglia** (2013) Cognition in action: A new look at the motor system. In H. Terrace & J. Metcalfe (eds.) *Joint Attention and Agency*. Oxford University Press, Oxford: 178-195.
- G. Rizzolatti & **C. Sinigaglia** (2013) Understanding action from the inside. In W. Prinz, M. Beisert & A. Herwig (eds.) *Action Science: Foundations of an Emerging Discipline*. MIT Press, Cambridge Mass.: 201-227.
- E. Ambrosini, M. Costantini & **C. Sinigaglia** (2012) Out of your hand's reach, out of my eyes' reach. *Quarterly Journal of Experimental Psychology*, 65 (5): 848-855.
- P. Cardellicchio, **C. Sinigaglia** & M. Costantini (2012) Grasping affordances with the other's hand. *Social Cognitive and Affective Neuroscience* DOI: 10.1093/scan/nss017.
- E. Ambrosini, **C. Sinigaglia** & M. Costantini (2012) Tie my hands, tie my eyes. *Journal Experimental Psychology. Human Perception and Performance*, 38 (2): 263-266.
- M. Costantini & C. Sinigaglia (2012) Grasping affordance: A window onto social cognition. In A. Seeman (ed.) *Joint Attention: New Developments in Psychology, Philosophy of Mind, and Social Neuroscience*. MIT Press, Cambridge Mass.: 431-470.
- V. Gallese & **C. Sinigaglia** (2012) Response to de Bruin and Gallagher: Embodied simulation as reuse is a productive explanation of a basic form of mind-reading. *Trends in Cognitive Science*, doi:10.1016/j.tics.2011.12.002
- V. Gallese & **C. Sinigaglia** (2011) What is so special about embodied simulation? *Trends in Cognitive Science*, 15: 512-519.
- E. Ambrosini, M. Costantini & **C. Sinigaglia** (2011) Grasping with the eyes. *Journal of Neurophysiology*, 106:1437-1442.
- M. Costantini, E. Ambrosini, **C. Sinigaglia** & V. Gallese (2011) Tool-use observation makes far objects ready-to-hand. *Neuropsychologia*, 49(9): 2658-2563.
- M. Costantini, G. Committeri & **C. Sinigaglia** (2011) Ready both to your and my hands: mapping the action space of others. *PLoS ONE*, 6, 4, e19723.
- P. Cardellicchio, **C. Sinigaglia** & M. Costantini (2011) The space of affordances: A TMS study. *Neuropsychologia*, 49(5):1369-1372, 2011.
- C. Sinigaglia** & G. Rizzolatti (2011) Through the looking glass: Self and others. *Consciousness and Cognition* doi:10.1016/j.concog.2010.11.012, 2011.
- M. Costantini, E. Ambrosini, G. Tieri, **C. Sinigaglia** & G. Committeri (2010) Where does an object trigger an action? An investigation about affordances in space. *Experimental Brain Research* DOI 10.1007/s00221-010-2435-8.
- S. Ortigue, **C. Sinigaglia**, G. Rizzolatti & S. T. Grafton (2010) Understanding actions of others: The electrodynamics of the left and right hemispheres. A high-density EEG neuroimaging study. *PLoS ONE*, 5(8): e12160.
- C. Sinigaglia** (2010) Mirroring and making sense of others. *Nature Reviews Neuroscience*, 11: 449.
- G. Rizzolatti, **C. Sinigaglia** (2010) The functional role of the parieto-frontal mirror circuit: Interpretation and misinterpretations. *Nature Reviews Neuroscience*, 11: 264-274.
- V. Gallese & **C. Sinigaglia** (2010) The bodily self as power for action. *Neuropsychologia*, 48: 746-759.
- C. Sinigaglia** (2009) Mirror in action. *Journal of Consciousness Studies*, 16 (6-8): 309-334.
- V. Gallese, M. Rochat, G. Cossu & **C. Sinigaglia** (2009) Motor cognition and its role in the phylogeny and ontogeny of action understanding. *Developmental Psychology*, 45 (1): 103-113.
- S. Boria, M. Fabbri-Destro, L. Cattaneo, L. Sparaci, **C. Sinigaglia**, E. Santelli, G. Cossu & G. Rizzolatti (2009) Intention understanding in autism. *PLoS ONE*, 4(5), e5596.

- G. Rizzolatti & **C. Sinigaglia** (2008), *Mirrors in the Brain. How our Minds share Actions and Emotions*. Oxford University Press, Oxford. [translated in French, Spanish, German, Russian, Japanese, Chinese, Korean, Persian, Polish].
- G. Rizzolatti & **C. Sinigaglia** (2008) Further reflections on how we interpret the action of others. *Nature*, 455: 589.
- C. Sinigaglia** (2008) Mirror neurons: This is the question. *Journal of Consciousness Studies*, 15 (10-11): 70-92.

Conferenze (selezione)

- 2017 A Secret Life for Motor Representation – Neural Mechanism Conference. Department of Philosophy, University of Turin. The Second Life of Motor Representations – Workshop on “Executive and Automatic Control of Skilled Action: How they Interface and Interact”, ENS & Jean Nicod, Paris. Acting Together: A Role for Motor Representation. ESPP Conference. Hertfordshire.
- 2016 Acting Together: Collective Goals and Motor Representations – Collective Intentionality X, The Hague
- 2015 Motor Representation in (Joint) Action – 6th Joint Action Meeting, Budapest.
- 2014 On a Puzzle about the Relations between Thought, Experience and the Motoric – Naturalizing Agency, University of Tübingen. Mirroring and Sharing Action. XXIII Kongress der Deutschen Gesellschaft für Philosophie - Münster. On a Puzzle about the Relations between Thought, Experience and the Motoric. Department of Psychology, University of Reading.
- 2013 Motor Representation in Goal Ascription. Workshop on Dialogues on the Mechanism of Action and Social Interaction. Nijmegen University. Motor Representation in Goal Ascription. Centre for Philosophical Psychology, University of Antwerp. Motor Representation in Goal Ascription. Department of Philosophy, Memphis University (US)
- 2012 Motor Representation and Goal Ascription. Centre for Subjectivity Research, Copenhagen.
- 2012 Motor Representation and Goal Ascription. Department of Philosophy, Central European University - Budapest. Intention and Motor Representation in Purposive Action. Interfaces of the Mind. Philosophical Workshop - Ruhr Universität, Bochum Minding Minds through the Looking Glass. Workshop on Empathy. Center of Subjectivity, Copenhagen Mirrors in Action. CESC Ecole Normale Supérieure de Lyon. Minding Minds through the Looking Glass. Interdisciplinary Colloquium, University of Düsseldorf.
- 2011 Intentionality without Intentions. Propositional Knowledge and Non Propositional Knowledge: From Cognitive Science to Epistemology. East China Normal University - Shanghai. The power of action. Department of Psychology, University of Portsmouth. What is so special about embodied simulation? Mindreading through the looking glass. Department of Philosophy, Warwick University. The understanding action from the inside. Workshop on Perception in Social Interaction. Institute of Philosophy, University of London.
- The space of action. Key note lecture. Workshop on Empathy, Simulation and Narrative. Center for Semiotics. Scandinavian Institute. Aarhus University Ready both to your and my hands. How we share the space of action. Keynote Lecture. Workshop on Embodied, Distributed and Extended Cognition: Philosophical Perspectives. Department of Philosophy, Universitat Autònoma de Barcelona.
- 2010 Mirroring Space and Action: A Window onto Social Cognition. University of Antwerp (Belgium) Sense of Self and Sense of Others. Mirror Neurons: From Action to Empathy. V International Interdisciplinary Conference Cognitivist Autumn in Toruń 2010, Torun (Poland). The Bodies in Action through the Looking Glass. Mirror Neurons and Social Cognition, Bentley University, Boston. The Real Magic of Grasping. Department of Philosophy, Harvard University (Cambridge Mass) Minimal Sense of Body and Minimal Sense of Self. Institute of Philosophy, University of London. The Motor Roots of Social Cognition. King’s College, London.
- 2009 From Sharing to Joining Action. A Motor Approach to Intentionality. Joint Attention Conference. Bentley College. Boston (USA).
- Motor Cognition and Enactive Understanding. Reflections on Mirror Neurons: Mirror of Reality? The Eight International Conference of Neuroesthetics. University of California, Berkeley.
- The Magic of Grasping. Mirror Neurons and Motor Intentionality. Department of Philosophy, University of California, Berkeley.

Organizzazione di Conferenze and Workshop

- 2017 Workshop on Minimal Shared Agency. Department of Philosophy. Università degli Studi di Milano.
- 2016 Workshop on Acting Together. Department of Philosophy, Università degli Studi di Milano (Warwick-Milan Workshop II – co-organized with Butterfill).
- 2016 Workshop on Action and Awareness. Department of Philosophy, University of Warwick (co-organized with Nudds, Butterfill, and Mandrigin. Sponsored by the ‘Rethinking the Senses: unity the

philosophy and neuroscience of perception' project, funded by the AHRC Science in Culture Theme, and by the 'Motor Planning and Practical Reasoning' project, funded by a British Academy Leverhulme Small Research Grant

- 2015 Workshop on Practical Reasoning and Motor Representation. Department of Philosophy, University of Warwick (Warwick-Milan Workshop I – co-organized with Butterfill and sponsored by the 'Motor Planning and Practical Reasoning' project, funded by a British Academy Leverhulme Small Research Grant).
- 2010-5 Cognition in Action Lecture Series. Department of Philosophy. Università degli Studi di Milano.
- 2009 More Geometrico. An interdisciplinary Conference on Geometry, Cognition, Space and Movement SISSA — International School for Advanced Studies, Trieste (co-organized with Bruzzo and Bartocci).
- 2009 Summer School in Neuroscience and Philosophy of Mind. Alghero.
- 2008 Self and Other in Social Neuroscience and Philosophy of Mind. ESF Conference. Alghero. Mirror Neurons & Social Cognition. ESF Exploratory Workshop. Torino (co-organized with Rizzolatti and Viale). Embodied Language. Symposium within the European Society of Psychology and Philosophy Annual Conference. Utrecht. Workshop on Intentionality and Consciousness. Department of Philosophy. Università degli Studi di Milano.