

Alessandro D'Ausilio

Current position

- FULL PROFESSOR OF PHYSIOLOGY (since October 2022). University of Ferrara
Department of Neuroscience and Rehabilitation, Section of Physiology
- Affiliated RESEARCHER (since Apr 2017). Italian Institute of Technology (IIT)
Italian Institute of Technology (IIT), CTNSC@UniFe - Center for Translational Neurophysiology

Other roles

- COORDINATOR (since January 2025). Joint UNIFE-IIT PhD program in Translational Neurosciences and Neurotechnologies
- PhD Board of Professors (Since 2023/2024). National PhD in Theoretical and Applied Neuroscience
- Member of the UNIFE-CRTM Committee (Consiglio della Ricerca e Terza Missione) (2022-2026)
- Member of the UNIFE Bioethics Committee (Commissione Bioetica di Ateneo) (2026-2028)

Past positions

ASSOCIATE PROFESSOR OF PHYSIOLOGY (Apr 2017 - Sept 2022). University of Ferrara, Department of Neuroscience and Rehabilitation, Section of Physiology

RESEARCHER (Jan 2016 - Mar 2017). Italian Institute of Technology, CTNSC@UniFe, Ferrara

RESEARCHER (Apr 2012 - Dec 2015). Italian Institute of Technology, Robotics, Brain and Cognitive Sciences Department, Genova

SENIOR POST-DOC (Apr 2010 - Mar 2012). Italian Institute of Technology, Robotics, Brain and Cognitive Sciences Department, Genova. Supervisor: Prof. Luciano Fadiga

POST-DOC (Apr 2007 - Mar 2010). University of Ferrara, D.S.B.T.A. Section of Human Physiology, NeuroLab, Ferrara. Supervisor: Prof. Luciano Fadiga and Prof. Laila Craighero

VISITING PHD STUDENT (Feb-Sept 2005; Apr-May 2006). MIT, Brain and Cognitive Science Department, Bizzilab, Cambridge, MA (USA). Supervisor: Prof. Emilio Bizzi

VISITING PHD STUDENT (Mar-Sept 2004; Nov-Dec 2004). Institut für Medizinische Psychologie und Verhaltensneurobiologie, Tübingen (Germany). Supervisors: Prof. Niels Birbaumer and Martin Lotze

PHD STUDENT (Nov 2003 - Mar 2007). Sapienza University of Rome, Dept. of Psychology, CSPL - Cognitive Science and Psychology Lab, Rome. Supervisor: Prof. Marta Olivetti Belardinelli

UNDERGRADUATE RESEARCH ASSISTANT (Jan 2002-Oct 2003). Sapienza University of Rome, Dept. of Psychology, Cognitive Science and Psychology Lab, Rome (Italy). Supervisor: Prof. Marta Olivetti Belardinelli

Education

2007 - PhD defence. Title: Learning and plasticity in cerebral sensory-motor coupling (2nd April)

2006 - Psychology professional habilitation (Feb)

2003/2006 - PhD in Cognitive Psychology-Psychophysiology-Personality, Sapienza University of Rome

2003 - MA defence, score of 110/110 cum Laude. Title: Musical Recognition Modelling (16th July)

1998/2003 - Experimental Psychology (equivalent to a BA+MS), Sapienza University, Rome

1998 - High-School Scientific Diploma (Jul)

Italian National Scientific Habilitation

ASN 2016 - Full Professor (Physiology - 05/D1)

ASN 2016 - Full Professor (Psychobiology, Cognitive Psychology and Statistical Psychology - 11/E1)

ASN 2013 - Associate Professor (Physiology - 05/D1)

ASN 2013 - Associate Professor (Psychobiology, Cognitive Psychology and Statistical Psychology - 11/E1)

ASN 2012 - Associate Professor (Psychobiology, Cognitive Psychology and Statistical Psychology - 11/E1)

Fellowships, Honours, and Awards

2023 - Researcher Award, SIPP - Società Italiana di Psicofisiologia e Neuroscienze Cognitive (Italian Society of Psychophysiology and Cognitive Neuroscience)

2012 - "De Renzi" Prize for young investigators, SINP – Società Italiana di Neuropsicologia (Italian Society for Neuropsychology)

2009 - Young Investigator Award, AIP - Associazione Italiana di Psicologia, Sezione Sperimentale (Italian Association of Psychology, Experimental Section)

2006 - Travel award, Human Brain Mapping conference. OHBM Grant

2005 - Travel award, Human Brain Mapping conference. NIH Grant #2 R13 MH062008-06

2005 - ECONA scholarship on "Auditory-Motor Integration: New Methods and Perspective"

2005 - Selected by the MIT/Italy Program for a research stay at the Massachusetts Institute of Technology

2004 - ERASMUS/SOCRATES scholarship for a research stay at the Eberhart-Karls-Universität

2002/03 - Merit-based selection for payed undergrad research assistance, Dept. of Psychology, Sapienza University

2002 - Undergrad research scholarship with Prof. Olivetti Belardinelli (Apr '02 – Nov '02)

2001/02 - Merit-based selection for payed undergrad research assistance, Dept. of Psychology, Sapienza University

Invited talks

2025 - Music, brain plasticity and the case of ensemble musicians. Conservatorio di Parma

2025 - Sensorimotor basis of human communication. 3rd Panhellenic Conference on Neuropsychology, Athens

2025 - Sensorimotor coupling during interaction, Symposium on Neural Control of Movement, School of Biomedical Sciences, University of Leeds

2025 - Sensorimotor coupling during interaction, Cognition, Action et Plasticité Sensorimotrice Unité mixte de recherche – INSERM - CAPS 1093, Dijon

2024 - Neuroplasticità ed interazione tra persone nell'epoca del digitale. workshop AIDM: Medicina digitale ed arte medica, Ferrara

2024 - The neurophysiology of human sensorimotor communication, Dept Mathematics and Informatics, UniFe

2023 - The neurophysiology of human sensorimotor communication, SIPP2023 [Young Researcher Award Keynote]

2023 - Comunicazione sensorimotoria in laboratorio ed in contesti ecologici, Neurowebinars

2022 - Scienza e coscienza: i processi neurofisiologici cerebrali della relazione e dell'interazione. workshop AIDM: Medicina digitale ed arte medica, Ferrara

2022 - Sensorimotor basis of human communication, GRACE ANR Project closing event, Telecom, Paris

2022 - Multiple temporal scales in solo, dyadic and group coordination. EnTimeMent, Experience, VirtualTimes, EU Horizon 2020 FET PROACTIVE Joint Workshop [VIRTUAL]

2022 - Sensorimotor basis of human communication, CNCS - IIT, Rovereto

2022 - Sensorimotor basis of human communication, CHT@Erzelli - IIT, Genova

2021 - Sensorimotor basis of human communication, Workshop "Computer vision and Cognitive science for human behaviour understanding and interaction", Lille

2021 - Sensorimotor basis of human communication. Instituto Superior Tecnico, Lisbon [VIRTUAL]

2021 - Sensorimotor basis of human communication. Poeticon Reloaded and iCog workshop. IIT, Genoa [VIRTUAL]

2021 - Sensorimotor basis of human communication. University of Leeds [VIRTUAL]

2021 - Investigating the sensorimotor basis of human communication. Freie Universität, Berlin [VIRTUAL]

2021 - The microscopic structure of interpersonal synchronization. EnTimeMent Workshop "Capturing Human Time". [VIRTUAL]

2021 - SIPF SNACK - Sinergie motorie per il controllo e la percezione del movimento. [VIRTUAL]

2020 - Sensorimotor communication. socialBRIDGES e-conferences - "Alignment in Groups, Teams and Networks". [VIRTUAL]

2020 - Sensorimotor communication. MusicTechFest Aveiro. Aveiro (PT) [moved to VIRTUAL]

2020 - Investigating the sensorimotor basis of human communication. Cognitlve RobotiCs for IntEraction (CIRCE) Workshop @ RO-MAN 2020, Napoli [moved to VIRTUAL]

2019 - Coordinazione sensorimotoria nei gruppi. University of Udine

2019 - Investigating the sensorimotor basis of human communication. IIT CLNS@SAPIENZA, Roma

2019 - The sensorimotor side of speech perception. Brain-computer interaction and language Workshop, Grenoble

2019 - Grammars in the brain. Euromov, Montpellier

2018 - Multi-level sensorimotor coordination in orchestra playing. Workshop "Action and Emotion - A door to understand the will and its disorders", Roma

2017 - Sensorimotor rehabilitation: Cognitive-motor strategies. Workshop "Neuroscience of Cognitive and Motor Rehabilitation", SIPF, Roma

2017 - Neuroscienze e voce: tra percezione e esecuzione. Workshop "La voce artistica", Ravenna

2017 - Grasping Synergies: A motor-control approach to the mirror neuron mechanism. 1st Bologna Workshop on Social, Cognitive and Affective Neuroscience. Bologna

2017 - Grasping Synergies: A motor-control approach to the mirror neuron mechanism. DAAD-MIUR Workshop "The motor system in action: common and specific motor representations in performing, perceiving and communicating actions", Universität Potsdam

2017 - Investigating the sensorimotor basis of natural speech interaction. Symposium "Cognitive and neural mechanisms of action imitation", Experimental Psychology Society (EPS), London

2016 - L'elaborazione del linguaggio: dal cervello ai sistemi artificiali. Dipartimento di Scienze Mediche: Giornata Dipartimentale della Ricerca. Università di Ferrara

2016 - The common origins of language and action. "Action, Language, Cognition" conference, CNR, Rome

2016 - Investigating the sensorimotor basis of human communication. School of Psychological Sciences, Univ. of Manchester

2016 - Investigating the sensorimotor basis of human communication. Psychologisches Institut, Universität Zürich

2016 - Music and the brain, the case of ensemble musicians. Istituto di Neuroscienze CNR, Milan

2015 - Sensorimotor communication in music ensembles. Mind and Brain in Music Workshop. Dept. of Psychology, Univ. of Milano - Bicocca

2015 - Sensorimotor communication, speech and language. 16th International Multisensory Research Forum, Pisa

2015 - Sensorimotor basis of human-objects-human interaction. VisLab, Institute for Systems and Robotics of Instituto Superior Técnico, Lisbon

2015 - Le basi sensorimotorie della comunicazione. Technology Enhanced Learning Workshop, Consorzio Milano Ricerche, Milano

2014 - Joint ecological action. Int. Symp. on Cogn. Neurosci. Robotics, Osaka

CV - D'Ausilio

2014 - Investigating the sensorimotor basis of human communication. Departmental Colloquium. Department of Cognitive Science. Central European University, Budapest

2014 - Percezione-Azione nell'interazione comunicativa nelle orchestre. Free University of Bozen/Bolzano

2014 - Communication and action coordination in musical performance. The Conscious Body meeting III – Paris

2014 - Understanding the sensorimotor basis of human communication. 9th ACM/IEEE International Conference on Human-Robot Interaction- Workshop: HRI: a bridge between Robotics and Neuroscience, Bielefeld

2014 - Sensorimotor processing of speech: brain inspired approaches to automatic speech recognition. Brain & Language Research Institute Seminar, Aix en Provence

2013 - Active perception - sensorimotor circuits as a cortical basis for language. 57th Annual Meeting of the German Society for Clinical Neurophysiology and Functional Imaging - Leipzig

2013 - The common origins of language and action. Int. Symp. on Cogn. Neurosci. Robotics, Seattle

2012 - The motor contribution to speech perception: neurophysiological and modeling approaches, Uppsala University

2012 - The motor contribution to speech perception: neurophysiological and modelling approaches, International Symposium on Imitation and Convergence in Speech (ISICS 2012), Aix-en-Provence

2012 - The motor contribution to speech perception: neurophysiological and modelling approaches, Max Plank Institute - Human Cognitive and Brain Sciences, Leipzig

2011 - Linguaggio e azione: analogie, problemi e spunti per la ricerca. La Mente nel Cervello, Tor Vergata, Rome

2010 - Communication and action coordination in musical performance. Interdisciplinary colloquium on Music and Emotion, Swiss Centre for Affective Sciences, Geneva

2010 - Il ruolo del sistema motorio nella comprensione del parlato. Centro di diagnosi precoce e di trattamento dell' Autismo: Una breccia nel muro, Rome

2010 - The role of the motor system in speech perception. Max Plank Institute - Human Cognitive and Brain Sciences, Leipzig

2010 - The role of the motor system in speech perception. Speech and Brain 2010, Finnish Cultural Foundation, Helsinki

2010 - The motor system in speech comprehension. CISC talk, Department of General Psychology, University of Padova, Padova

2009 - Motor contribution to speech perception. Interlocution Workshop: Linguistic structure and human interaction, University of British Columbia, Vancouver

2008 - Audio-motor integration in action comprehension and production. Faculty of Letters and Philosophy, University of Rome "Tor Vergata", Rome

2007 - BMI: Cosa dobbiamo cercare in corteccia? L'area motoria primaria ci può dare informazioni utili? Brain Machine Interface Group @ The Italian Institute of Technology, Genova

2006 - Auditory-motor learning. Dept of Physiology, University of Ferrara, Ferrara

Organization and editorial activities

2026/2028 - Member of the Advisor Board for Società Italiana di Psicofisiologia e Neuroscienze Cognitive - second term (Italian Society of Psychophysiology and Cognitive Neuroscience).

2025 - Scientific Committee International Conference in Cognitive Neuroscience - ICON25, Lisbon

2024 - Scientific Committee ICSC2024 (International Conference on Space and Cognition), Rome

2023/2025 - Member of the Advisor Board for Società Italiana di Psicofisiologia e Neuroscienze Cognitive (Italian Society of Psychophysiology and Cognitive Neuroscience).

2023 - Technical Committee EAI Intetain 2023 (14th EAI International Conference on Intelligent Technologies for Interactive Entertainment), Lucca

Since 2023 - Vice Chief Editor for the journal "Cognitive Processing" (Springer)

2022 - COBRA (H2020-MSCA-ITN-859588) 1 week Training event, Ferrara
2021 - Scientific Committee ICSC2021 (International Conference on Space and Cognition), Rome
2020/2022 - Section Editor in "Cognitive Neuroscience" for the journal "Cognitive Processing" (Springer)
Since 2020 - Review Editor for the journal "Frontiers in Human Neuroscience" - Brain Imaging and Stimulation - (Frontiers)
Since 2020 - Review Editor for the journal "Frontiers in Human Neuroscience" - Cognitive Neuroscience - (Frontiers)
Since 2019 - Editorial Board Member for the journal "Scientific Reports" (Nature Publishing Group)
2018 - Scientific Committee ICSC2018 (International Conference on Space and Cognition), Rome
Since 2017 - Review Editor for the journal "Frontiers in Psychology" - Cognition - (Frontiers)
2015 - Program Committee INTERPERSONAL@ICMI (International Workshop on Modelling Interpersonal Synchrony), Seattle
2015 - Scientific Committee ICSC2015 (International Conference on Space and Cognition), Rome
since 2014 - Secretary of the "Associazione Scientifica Umbrella" ONLUS
since 2014 - Review Editor for the journal "Frontiers in Communication" - Language Sciences - (Frontiers)
2013/2022 - Academic Editor for the journal "PLOS ONE" (Public Library of Sciences)
2013/2019 - Advisory Board for the journal "Cognitive Processing" (Springer)
2012 - Scientific Committee ICSC2012 (International Conference on Space and Cognition) Rome
2011 - IIT organising group for "150 humanoid robots and more...", Festival della Scienza, Genova
2011 - Scientific Committee CulturAbruzzo 2011 (Abruzzo's high-school students excellence award)
2010 - IIT organising responsible for "E-Motion - Un Laboratorio-Esperimento a Casa Paganini", in collaboration with SARC Queen's University, Belfast, InfoMus-Casa Paganini, Festival della Scienza, Genova
2010 - Scientific Committee CulturAbruzzo 2010 (Abruzzo's high-school students excellence award)
2006 - Organising Committee of ICSC2006 (International Conference on Space and Cognition) Rome
2006 - Panel organisation "Putting motor learning in its proper context: the effects of contextual cues and training history on skill acquisition." NCM'06 (Neural Control of Movement) Key Biscayne, Florida
2003 - Organising Committee of ICSC2003 (International Conference on Space and Cognition) Rome
2003 - Staff of ESCOM'03 (5th triennial Conf. European Society for the Cognitive Sciences of Music) Hannover

Occasional Journal reviewer

Neuron, Nature Communications, Current Biology, PNAS, Neuroscience and Biobehavioral Reviews, Progress in Neurobiology, Neuroimage, Journal of Neuroscience, Cerebral Cortex, Cortex, Human Brain Mapping, Scientific Reports, Journal of Cognitive Neuroscience, European Journal of Neuroscience, Journal of Neurophysiology, Neuropsychologia, PlosONE, Cognitive Affective & Behavioral Neuroscience, Brain and Language, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Psychonomic Bulletin & Review, Acta Psychologica, Neuroscience Research, Brain Research, Brain Topography, Brain Research Bulletin, Experimental Brain Research, Neuroscience, Frontiers in Neuroscience, PeerJ, Frontiers in Psychology, Behavioral Research Methods, Journal of Neurotrauma, Journal of Neuroscience Methods, Clinical Neurophysiology, Neuropsychology, Sensors, IEEE Transactions on Autonomous Mental Development, Cognitive Processing, Neural Plasticity, Brain Sciences, Multisensory Research, Swiss Journal of Psychology, CogSci.

Occasional Grant reviewer

FLAG-ERA, Wellcome Trust, Agence Nationale de la Recherche (ANR), Netherlands Organisation for Scientific Research (NWO), Leverhulme Trust, The Academy of Medical Sciences UK, FWF (Austrian Science Fund), Vienna Science and Technology Fund (WWTF), United States – Israel Binational Science Foundation; Israel Science Foundation (ISF).

English to Italian translation (Zanichelli):

- Principles of Neural Science (6th Edition). Edited by Kandel, Koester, Mack, Siegelbaum. McGraw-Hill, New York, 2021.
- Neuroscience (6th Edition). Edited by Purves, Augustine, Fitzpatrick, Hall, LaMantia, Mooney, Platt, White. Oxford University Press, 2017.
- Fundamental Neuroscience (4th Edition). Edited by Squire, Berg, Bloom, du Lac, Ghosh, Spitzer. Elsevier Science Publishing, 2012

Teaching

Teaching @ the University of Ferrara

Since 2021/2022 - Motor Neurophysiology (32Hrs), Sport Sciences (MA-level)

Since 2020/2021 - Neurophysiology (24Hrs), Physiotherapy (BA-level)

Since 2020/2021 - Neurophysiology (16Hrs), Speech therapy (BA-level)

Since 2017/2018 - Neurophysiology (25Hrs), Medical school

Past teaching @ the University of Ferrara

2019/2020-2025/2026 - Neurobiology (32Hrs), Biology (MA-level)

2017/2018-2020/2021 - Neurophysiology (8Hrs), Nursing school (BA-level)

2017/2018-2020/2021 - Motor Neurophysiology (24Hrs), Sport Sciences (MA-level)

2017/2018-2020/2021 - Motor Neurophysiology (10Hrs), Dentistry school

2016/2017-2019/2020 - Neurophysiology (12Hrs), Nursing school (BA-level)

2016/2017-2019/2020 - Neurophysiology (36Hrs), Rehabilitation Sciences (BA-level)

2018/2019 - Neurobiology of language. Short course for MD residency school (4Hrs)

2018/2019 - Transcranial Magnetic Stimulation. Short course for MD residency school (4Hrs)

2017/2018-2022/2023 - Language, learning & memory, higher visual processing (12.5Hrs), Medical school

Funding

Ongoing major Funding (UNIFE or IIT)

2025-2027 - PRIN2022 - Advanced AI to capture the multiscale nature of motor attunement within the patient-psychiatrist relationship. Role: Project PI (UNIFE).

2024-2026 - A.Li.Sa. - Voluntary movement, corticospinal excitability and intracortical circuitries in patients with Autism Spectrum Disorder and Cerebral Palsy: excitatory/inhibitory imbalance of the motor cortex as a possible Autism Spectrum Disorder biomarker. Role: Unit member (IIT).

2024-2026 - PRIN-PNRR2022: MOTUS – Automated Analysis and Prediction of Human Movement Qualities. Role: Unit PI (UNIFE).

2024-2027 - IIT Flagship Program - Brain and Machines initiatives - MiNeS Project (Micromovement with Neuromorphic Sensing). Role: Unit PI (IIT).

2024-2028 - PRIMI (Performance in Robot Interaction via Mental Imagery). HORIZON-CL4-2022-DIGITAL-EMERGING-02-101120727. Role: Unit PI (UNIFE).

2024-2028 - PRIMI (Performance in Robot Interaction via Mental Imagery). HORIZON-CL4-2022-DIGITAL-EMERGING-02-101120727. Role: Unit Co-PI (IIT).

Past major Funding

2020/2024 - COBRA (COntersational BRAIns). H2020-MSCA-ITN-859588. Role: Unit Co-PI (IIT).

2020-2023 - Min. Salute Ric. Finalizzata 2018 - Giovani Ricercatori. GR-2018-12366027. The treatment of persistent developmental stuttering: shaping of motor neural functioning to improve fluency. Role: Unit PI (IIT).

2021-2023: Bial Foundation - 246/20 - The hidden rhythm of interpersonal (sub-)movement coordination. Role: Co-PI (IIT).

2019-2022 - EnTimeMent (ENtrainment and synchronization at multiple TIME scales in the MENTAL foundations of expressive gesture). H2020-FETPROACT-824160. Role: Unit Co-PI (IIT).

2018/2021 - Min. Salute Ric. Finalizzata 2016 - Giovani Ricercatori. GR-2016-02361008. Promoting the recovery of higher-order motor functions in brain damaged patients. A novel approach based on the combination of virtual reality and non-invasive brain stimulation. Role: Unit PI (IIT).

Past EU project participation

2011-2015 - POETICON++ (Robots need Language: A computational mechanism for generalisation and generation of new behaviours in robots). FP7-ICT-288382. Role: writing part of the proposal, scientific program execution, writing project reports, presenting data at project meetings (IIT).

2010-2013 - SIEMPRE (Social Interaction and Entrainment using Music PeRformance Experimentation). FP7-ICT-250026. Contribution: writing part of the proposal, scientific program execution, writing project reports, presenting data at project meetings (IIT).

2008-2011 - POETICON (The Poetics of Everyday Life: Grounding Resources and Mechanisms for Artificial Agents). FP7-ICT-215843. Contribution: writing part of the proposal, scientific program execution, writing project reports, presenting data at project meetings (UNIFE).

2007-2008 - CONTACT (Learning and development of Contextual Action). FP6-NEST-5010 (NEST). Contribution: scientific program execution, writing project reports, presenting data at project meetings (UNIFE).

Publications

Peer-reviewed, indexed, international journals

(@Corresponding Author)

- 103 - Laroche J., D'Ausilio A. (In Press). Harnessing Uncertainty: Improvisation as a Model for Rapid Behavioral Expansion. **Cog Sci**. In Press.
- 102 - Girdali E., Frosolone M., Corcoran A.W., Barca L., Corsini A., Donnarumma F., D'Ausilio A., Pezzulo G. (in press). False but phonologically plausible linguistic priors induce cross-linguistic auditory illusions and attenuate electrophysiological markers of surprise. **Imaging Neurosci**. In Press.
- 101 - Siri G., Abubshait A., De Tommaso D., *D'Ausilio A., *Wykowska A. (in press) The impact of humanoid robot's presence on human's cognitive control in a stop-signal task. **Q J Exp Psychol**, In Press. (*Equal contribution)
- 100 - Tomassini A., Torricelli F., Fadiga L., D'Ausilio A. (2026). Alpha and beta cortico-motor phase dynamics shape visuomotor control on a single-trial basis. **J Neurosci**. 46(7):e0765252025.
- 99 - Botta K., Dolfini E., Koch G., *D'Ausilio A., *Fadiga L. (2025) Sensorimotor integration during grasping is mediated by distinct M1 circuits. **J Neurophysiol**, 134, 1320-1328. (*Equal contribution)
- 98 - Viaro R., Bernardi D., Maggiolini E., D'Ausilio A., Ferroni C. G., Parmiani P., Fadiga L. (2025) Differential motor neuron activity in rats during successful and failed grasping. **Cereb Cortex**, 35(2), xxxx-xxxx.
- 97 - D'Ausilio A. (2025) À la recherche du temps perdu: will AI and 150 years of human movement research drive the next Neuroscience revolution? **J Physiol (London)**, 603(8), 2175-2176.
- 96 - Mandelli V., Landi I., Busti Ceccarelli S., Molteni M., Nobile M., D'Ausilio A., Fadiga L., Crippa A., Lombardo M. (2024) Enhanced motor noise in an autism subtype with poor motor skills. **Molecular Autism**, 15:36.
- 95 - Vescovo E., D'Ausilio A. (2024) The too many facets of motor output variability: Comment on "From neural noise to co-adaptability: Rethinking the multifaceted architecture of motor variability". **Phys Life Rev**, 50, 1-3.
- 94 - Baroni A., Antonioni A., Fregna G., Lamberti N., Manfredini F., Koch G., D'Ausilio A., Straudi S. (2024) The effectiveness of paired associative stimulation on motor recovery after stroke: A scoping review. **Neurol Int**, 16, 567-589.
- 93 - Vescovo E., Cardellicchio P., Tomassini A., Fadiga L., D'Ausilio A. (2024) Excitatory/inhibitory motor balance reflects individual differences during joint action coordination. **Eur J Neurosci**, 59, 3403-3421.
- 92 - Corsini A., Tomassini A., Pastore A., Delis I., Fadiga L., D'Ausilio A. (2024) Speech Perception Difficulty Modulates Theta-Band Encoding of Articulatory Synergies. **J Neurophysiol**, 131, 480-491.
- 91 - Dolfini E., Cardellicchio P., Fadiga L., D'Ausilio A. (2024) The role of dorsal premotor cortex in Joint Action inhibition. **Sci Rep**, 14, 4675.
- 90 - Laroche J., Tomassini A., Fadiga L., D'Ausilio A. (2024) Submovement interpersonal coupling is associated to audio-motor coordination performance. **Sci Rep**, 14, 4662.
- 89 - Emanuele M., D'Ausilio A., Koch G., Fadiga L., Tomassini A. (2024) Scale-invariant changes in corticospinal excitability reflect multiplexed oscillations in the motor output. **J Physiol (London)**, 602(1), 205-222.
- 88 - Nazzaro G., Emanuele M., Laroche J., Esposto C., Fadiga L., D'Ausilio A., Tomassini A. (2023) The microstructure of intra- and interpersonal coordination. **P Roy Soc B-Biol Sci**, 290(2011), 20231576.
- 87 - Kruyt J., de Jong D., D'Ausilio A., Beňuš S. (2023) Measuring prosodic entrainment in conversation: a review and comparison of different methods. **J Speech Lang Hear Res**, 66, 4280-4314.

- 86 - D'Ausilio A., Tomassini A. (2023) Studying the hierarchy of actions from motor primitives: Comment on "An active inference model of hierarchical action understanding, learning and imitation". **Phys Life Rev**, 47, 63-65.
- 85 - Abubshait A., Kompatsiari K., Cardellicchio P., Vescovo E., De Tommaso D., Fadiga L., *D'Ausilio A., *Wykowska A. (2023) Modulatory effects of communicative gaze on attentional orienting are driven by dmPFC but not rTPJ. **J Cogn Neurosci**, 35(10), 1670-1680. (*Equal contribution)
- 84 - Casarotto A., Dolfini E., Fadiga L., Koch G., @D'Ausilio A. (2023) Cortico-cortical paired associative stimulation conditioning superficial PMv-M1 connectivity influences motor cortical activity during precision grip. **J Physiol (London)**, 601(17), 3945-3960.
- 83 - Torricelli F., Tomassini A., Pezzulo G., Pozzo T., Fadiga L., D'Ausilio A. (2023) Actions are all we need for cognition, but do we know enough about them? **Phys Life Rev**. 47, 30-32. (Reply to commentaries of publication #82).
- 82 - Torricelli F., Tomassini A., Pezzulo G., Pozzo T., Fadiga L., D'Ausilio A. (2023) Motor invariants in action execution and perception. **Phys Life Rev**. 44, 13-47. Review article followed by 7 commentaries.
1. Dessalene E., Aloimonos Y. "Motor-invariants for action understanding in video" 20-21.
 2. Labaune O., Berret B. "The vigor law as a kinematic invariant at work in perceptual-cognitive processes".
 3. Cheron G., Simar C., Cebolla A.M. "The oscillatory nature of the motor and perceptive kinematics invariants".
 4. Bardi L., Langford Z.D., Cristofori I. "Visual sensitivity to biological motion invariants in humans at birth".
 5. Lacquaniti F., La Scaleia B., Zago M. "Non-invariants may be used for socially-relevant perceptual decisions".
 6. d'Avella A., Russo M., Berger D.J., Maselli A. "Neuromuscular invariants in action execution and perception".
 7. Morasso P. "Taming the abundance of degrees of freedom"
- 81 - Casarotto A., Dolfini E., Cardellicchio P., Fadiga L., *D'Ausilio A., *Koch G. (2023) Mechanisms of Hebbian-like plasticity in the ventral premotor – primary motor network. **J Physiol (London)**, 601(1), 211-226. (*Equal contribution)
- 80 - Pastore A., Tomassini A., Delis I., Dolfini E., Fadiga L., @D'Ausilio A. (2022) Speech listening entails neural encoding of invisible articulatory features. **Neuroimage**, 264, 119724.
- 79 - Laroche J., Tomassini A., Volpe G., Camurri A., Fadiga L., D'Ausilio A. (2022) Interpersonal sensorimotor communication shapes intrapersonal coordination in a musical ensemble. **Front in Hum Neurosci**, 16, 899676.
- 78 - Tomassini A., Emanuele M., Nazzaro G., Petrone N., Fadiga L., D'Ausilio A. (2022) Interpersonal synchronization of movement intermittency. **iScience**, 25(4), 104096.
- 77 - Cardellicchio P., Dolfini E., D'Ausilio A. (2021) The Role of dorsal premotor cortex in joint action stopping. **iScience**, 24 (11), 103330.
- 76 - Viaro R., Maggiolini E., Farina E., Canto R., Iriki A., D'Ausilio A., Fadiga L. (2021) Neurons of rat motor cortex become active during both grasping execution and grasping observation. **Curr Biol**, 31(19), 4405-4412.
- 75 - Battaglia S., Serio G., Scarpazza C., D'Ausilio A., Borgomaneri S., (2021) Frozen in (e)motion: How reactive motor inhibition is influenced by the emotional content of stimuli in healthy and psychiatric populations. **Behav Res Ther**, 146, 103963.
- 74 - Cardellicchio P., Koch G., Fadiga L., D'Ausilio A., (2021) Motor overload: GABAergic index of parallel buffer costs. **Brain Stim**, 14 (5), 1106-1108.
- 73 - Delfino E., Pastore A., Zucchini E., Porto Cruz M.F., Ius T., Vomero M., D'Ausilio A., Casile A., Skrap M., Stieglitz T., Fadiga L. (2021) Prediction of Speech Onset by Micro-electrocorticography of the Human Brain. **Int J Neural Syst**, 31 (07), 2150025.
- 72 - Emanuele M., Nazzaro G., Marini M., Veronesi C., Boni S., Polletta G., *D'Ausilio A., *Fadiga L., (2021) Motor synergies: Evidence for a novel motor signature in autism spectrum disorder. **Cognition**, 213, 104652. (*Equal contribution)
- 71 - Cardellicchio P., Dolfini E., Fadiga L., D'Ausilio A. (2020) Parallel fast and slow motor inhibition processes regulate Joint Action coordination. **Cortex**, 133, 346-357.
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