



Curriculum Vitae Europass



Personal information

Surname / First name

Zampogna Alessandro

ORCID

0000-0002-0227-1993

Title

MD, PhD, Neurologist, Medical Researcher

Occupational
field

**Experimental and Clinical Neuroscience, Neurodegenerative Diseases,
Movement Disorders, Wearable Technologies**

Work Experience (Clinical and Research Activity)

Dates
Position held

01/09/2024 – 30/09/2024

Visiting fellow, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Stockholm, Sweden (supervisor: Prof. Vesna Jelic - vesna.jelic@ki.se) and Department of Clinical Neuroscience, Karolinska University Hospital (supervisor: Dr Anders Johansson (anders.johansson@ki.se)).

Dates
Position held

Mar 2024 – Present

Medical Researcher at IRCCS Neuromed Institute, Pozzilli (IS), Italy.

Dates
Position held

Jul 2022 – Present

"Site sub-investigator" (Phase III clinical trials for Alzheimer's disease, including: Embark 221AD304, Sponsor: Biogen; BAN2401-G00-301, Sponsor: Eisai; Alector AL002-2, Sponsor: Alector; Post-Graduate WN42171, Sponsor: F. Hoffmann La Roche; Envision 221AD305, Sponsor: Biogen; CELIA, Sponsor: Biogen; Alector-AL002-LTE, Sponsor: Alector; Gabriella, Sponsor: Roche; PRImus-AD, Sponsor: PRInnovation GmbH; AR1001-ADP3-US01, Sponsor: AriBio USA, INC; COGNIKET-MCI, Sponsor: Nestlé Health Science). Center for Cognitive Impairment and Dementia, Department of Human Neurosciences, Policlinico Umberto I, Rome, Italy. PI: Prof. Giuseppe Bruno.

Dates
Position held

Jan 2022 – Present

Freelance neurology consultant, Rome, Italy.

Dates
Position held

05/2021-07/2021

Clinical and Research fellow, Movement Disorders Unit, Centre Hospitalier Universitaire Grenoble Alpes, Grenoble, France. Supervisor: Prof. Elena Moro (emoro@chu-grenoble.fr).

Dates
Position held

2020 – 2021

	<p>“Site sub-investigator” at Phase 3 Multicenter Study of TD-9855 in Treating Symptomatic Neurogenic Orthostatic Hypotension in Subjects with Primary Autonomic Failure - Theravance Biopharma. PI: Prof. Giovanni Fabbrini.</p>
Dates	2019 – 2021
Position held	Resident doctors' affairs representative, Department of Human Neurosciences, Sapienza University of Rome, Italy.
Dates	29/12/2017 – 29/12/2021
Position held	Residency in Neurology, Department of Human Neurosciences, Sapienza University of Rome, Italy.
Dates	Jun 2017 – Dec 2017
Position held	Primary care physician (i.e., locum doctor) at Vibo Valentia local health district, Italy.
Education	
Dates	27/01/2025
Title of qualification awarded	PhD in Clinical and Experimental Neurosciences and Psychiatry, Department of Human Neurosciences, Sapienza University of Rome, Italy. Title of Dissertation: “Advanced Technologies for Axial Impairment in Parkinson's Disease: from Early Detection to Outcome Prediction”. Final mark: Excellent with honors. Supervisor: Prof. Antonio Suppa.
Dates	17-18 November 2023
	8th Advanced Parkinson's Disease (APD) Summit. Prague (PRG), Czech Republic.
Dates	18-21 November 2022
	10th Advanced Course On Diagnosis and Treatment of Movement Disorders (Faculty: Prof A. Espay, Prof. A. Fasano, Prof. F. Morgante), Naples (Na), Italy.
Dates	02-08 April 2022
	"XX Basic Course in EMG and Evoked Potentials", Italian Society of Clinical Neurophysiology, Sorrento (NA), Italy.
Dates	03-04 March 2022
	"Course on directional systems programming", Boston Scientific, Milan, Italy.
Dates	Nov 2021 – Jan 2025
Position held	PhD fellow in Clinical and Experimental Neurosciences and Psychiatry, Department of Human Neurosciences, Sapienza University of Rome, Italy. Supervisor: Prof. Antonio Suppa.
Principal subjects/occupational skills covered	Clinical and instrumental assessment of axial motor symptoms in Parkinson's disease using advanced technologies and computational methods.
Dates	30-31/10/2021
	“Advanced Applied Statistics and Research Methodology for Medical and Social Sciences”. Neocortex ETS, Rome, Italy.
Dates	17-18/09/2021 and 08-09/10/2021
	“High School of Movement Disorders”, Academy for the study of Parkinson's disease and movement disorders (LIMPE-DISMOV), Salerno and Turin, Italy.
Dates	06/2021
	“Applied Statistics and Research Methodology for Medical and Social Sciences” course, Neocortex ETS, Rome, Italy.
Dates	11/2020
	MDS-ES Virtual School for Young Neurologists. International Parkinson and Movement Disorder Society (MDS).

Dates	07-08/2020																														
	"Virtual Aspen Course in Movement Disorders, A Comprehensive Review of Movement Disorders for the Clinical Practitioner". International Parkinson and Movement Disorder Society (MDS).																														
Dates	29/12/2017 – 11/01/2022																														
Position held	Residency and Specialization in Neurology, Department of Human Neurosciences, Sapienza University of Rome, Italy. Title of Dissertation: "Axial Impairment in Parkinson's Disease: Multimodal Assessment of Gait and Balance". Final mark: 70/70 cum laude. Supervisor: Prof. Alfredo Berardelli. Co-Supervisor: Prof. Antonio Suppa.																														
Dates	03/2017																														
Title of qualification	Professional Qualification as Medical Doctor (OMCEOVV 1488).																														
Dates	2010 - 2016																														
Title of qualification	Master Degree in Medicine and Surgery (summa cum laude), Faculty of Medicine and Surgery, Sapienza University of Rome, Italy. Title of Dissertation: "Kinematic study of Freezing of Gait in Parkinson's Disease by means of Magnetic-Inertial Sensors". Supervisor: Prof. Alfredo Berardelli; Co-Supervisor: Prof. Antonio Suppa.																														
Dates	2014 – 2016																														
Title of qualification	"Excellence Path" student, Sapienza University of Rome, Italy (i.e. an extracurricular academic programme for worthy students to be involved in research activities).																														
Dates	2005 - 2010																														
Title of qualification	Upper secondary education diploma (specialization: Classical Lyceum; final mark 100/100), Liceo Classico M. Morelli, Vibo Valentia, Italy.																														
Personal skills and competencies																															
Mother tongue(s)	Italian																														
Other language(s)	English																														
Self-assessment																															
European level (*)																															
English	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="2">Spoken production</th><th colspan="2"></th></tr><tr><td>B 2</td><td>Upper-Intermediate</td><td>C 1</td><td>Advanced</td><td>B 2</td><td>Upper-Intermediate</td><td>B 2</td><td>Upper-Intermediate</td><td>C 1</td><td>Advanced</td></tr></table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B 2	Upper-Intermediate	C 1	Advanced	B 2	Upper-Intermediate	B 2	Upper-Intermediate	C 1	Advanced
Understanding				Speaking				Writing																							
Listening		Reading		Spoken interaction		Spoken production																									
B 2	Upper-Intermediate	C 1	Advanced	B 2	Upper-Intermediate	B 2	Upper-Intermediate	C 1	Advanced																						
Grants, Awards and Honours																															
Dates	13/03/2025 – present																														
	Associate Editor of JMIR Neurotechnology, Open Access Journal from JMIR Publications (ISSN: 1438-8871).																														
Dates	30/10/2024																														
	Lecturer at the residential event "Parkinson's Disease: Experience in a Specialist Clinic" on the topic "Advanced Stage Therapy". Department of Human Neurosciences, Sapienza University of Rome, Italy																														
Dates	01/2025 - present																														
	Review Editor of <i>Therapeutic Advances in Neurological Disorders</i> , Open Access Journal from SAGE Publishing (ISSN: 1756-2864).																														
Dates	09/2024 - present																														
	Review Editor of <i>Frontiers in Human Neuroscience - Motor Neuroscience</i> , Open Access Journal from Frontiers (ISSN: 1662-5161).																														

Dates	04/2024 Recipient of the ERASMUS+ "Short Mobility" Study Scholarship for the Academic Year 2024-2025.
Dates	02/2024 Winner of the "Youth and Research Project" award (participation grant), 10th national congress of the Academy for the study of Parkinson's disease and movement disorders (LIMPE-DISMOV). Title of the research: "Disentangling Bradykinesia and Rigidity in Parkinson's disease: Long-term Evidence from STN-DBS".
Dates	11/2023 Winner of the "Sapienza Ricerca - Bando Ateneo 2023" grant, Sapienza University of Rome, Italy. Title of the research: "Impact of L-Dopa/Carbidopa intestinal gel and deep brain stimulation on motor disorders in Parkinson's disease: study of body topography through a network of wearable sensors".
Dates	05/2023 Winner of the "young authors award", 67th national congress of the Italian Society of Clinical Neurophysiology (SINC) for the best oral communication. Title of the research: "Muscle synergies during gait in Parkinson's disease".
Dates	03/2023 Winner of the "Youth and Research Project" award (participation grant), 9th national congress of the Academy for the study of Parkinson's disease and movement disorders (LIMPE-DISMOV). Title of the research: "Muscle synergies during gait in Parkinson's disease".
Dates	10/2022 Winner of the "Sapienza Ricerca - Bando Ateneo 2022" grant, Sapienza University of Rome, Italy. Title of the research: "Boosting Telemedicine in Parkinson's disease: the innovative contribution of Wearable Sensors and Artificial Intelligence".
Dates	10/2022 Winner of the "Sapienza Ricerca - Bando Ateneo 2022" grant, Sapienza University of Rome, Italy. Title of the research: "Long-term monitoring of motor fluctuations in Parkinson's disease: an innovative approach with wearable sensors".
Dates	07/2022 Winner of the "Youth and Research Project" award (participation grant), 8th national congress of the Academy for the study of Parkinson's disease and movement disorders (LIMPE-DISMOV). Title of the research: "Axial impairment and falls in Parkinson's disease: 15 years of subthalamic deep brain stimulation".
Dates	10/2021 Scholarship winner for the XXXVII PhD cycle in "Clinical and Experimental Neurosciences and Psychiatry", Sapienza University of Rome, Italy.
Dates	09/2021 Winner of the "Youth and Research Project" award (participation grant), 7th National Congress of the Academy for the study of Parkinson's disease and movement disorders (LIMPE-DISMOV). Title of the research: "Spinal excitability and plasticity in hereditary spastic paraparesis: a neurophysiological study".
Dates	09/2021 Winner of the "young authors award", 65th national congress of the Italian Society of Clinical Neurophysiology (SINC). Title of the research: "Spinal excitability and plasticity in hereditary spastic paraparesis: a neurophysiological study".
Dates	08/2021 – Present Reviewer Board Member of <i>Journal of Clinical Medicine</i> , Open Access Journals from MDPI (ISSN: 2077-0383).
Dates	12/2020

	Winner of the “Clinical Fellowship Programme 2021” grant, European Academy of Neurology (EAN), Vienna, Austria.
Dates	10/2020 Winner of the “Sapienza Ricerca - Bando Ateneo 2020” grant, Sapienza University of Rome, Italy. Title of the research: “The pathophysiology of freezing of gait in Parkinson’s disease: an innovative study with wearable sensors and the analysis of muscle synergies”.
Dates	2020 – Present Resident and Research Member of the European Academy of Neurology (EAN).
Dates	2020 – Present Reviewer Board Member of <i>Sensors</i> and <i>Applied Sciences</i> , Open Access Journals from MDPI (ISSN 1424-8220 and 2076-3417, respectively).
Dates	2020 – Present Member of the Italian Academy for the Study of Parkinson’s Disease and Movement Disorders (LIMPE-DISMOV).
Dates	10/2019 Winner of the “Sapienza Ricerca - Bando Ateneo 2019” grant, Sapienza University of Rome, Italy. Title of the research: “Reactive postural strategies in patients with Parkinson’s Disease: a dynamic posturography with wearable sensors”.
Dates	07/2019 Winner of the “youth project” grant from the Italian Neurology Society, 50th national congress, Bologna, 12-15th Oct 2019.
Dates	06/2019 Winner of the “young authors award”, 64th national congress of the Italian Society of Clinical Neurophysiology (SINC) for the best Poster in the Movement Disorders Session. Title of the research: “Balance assessment by means of wearable sensors in Parkinson’s disease”.
Dates	2019 – Present Member of the Italian Society of Clinical Neurophysiology (SINC).
Dates	2018 – Present Member of the Italian Society of Neurology (SIN).
Dates	05/2017 “Excellent graduate”, Sapienza University of Rome, Italy (i.e., one of the most meritorious student of Sapienza University of Rome in the academic year 2015/2016).

List of Publications

Piervincenzi C, Asci F, Gangemi E, Funcis A, **Zampogna A**, Falletti M, Silvestri G, Rossi S, Zanna GD, Celletti C, Camerota F, Gianni C, Petsas N, Maggi L, Pantano P, Suppa A. Structural brain changes contributing to motor signs in pure hereditary spastic paraplegia type 4. *J Neurol*. 2025 Jun 3;272:440. doi: 10.1007/s00415-025-13155-4

Falletti M, Asci F, **Zampogna A**, Patera M, Suppa A. Cogwheel rigidity in Parkinson's disease: Clinical, biomechanical and neurophysiological features. *Neurobiol Dis*. 2025 May 28;212:106980. doi: 10.1016/j.nbd.2025.106980

Cilia R, Colucci F, Suppa A, Valentino F, Terranova C, Leuzzi C, Cordasco J, Fusi G, Floridia S, De Giorgi F, Telese R, Braccia A, **Zampogna A**, Pinola G, Patera M, Belluscio G, Crivellari S, Antoniazzi E, Cascino S, Giaco A, Masaracchio A, Moreschi GC, Catotti M, Eleopra R. Integrated management of atypical parkinsonism: a home-based patient-centered healthcare delivery based on telenursing-the IMPACT study protocol. *Ther Adv Neurol Disord*. 2025;18:17562864241299347. doi: 10.1177/17562864241299347.

Patera M*, **Zampogna A***, Pietrosanti L*, Asci F, Falletti M, Pinola G, Bianchini E, Di Lazzaro G, Rosati V, Grillo P, Giannini F, Fattapposta F, Costantini G, Pisani A, Saggio G, Suppa A. Abnormal

- arm swing movements in Parkinson's disease: onset, progression and response to L-Dopa. *J Neuroeng Rehabil.* 2025;22:47. doi: 10.1186/s12984-025-01589-w. *co-authorship
- Zampogna A**, Patera M, Falletti M, Pinola G, Asci F, Suppa A. Technological Advances for Gait and Balance in Normal Pressure Hydrocephalus: A Systematic Review. *Bioengineering (Basel).* 2025; 12(2):135. doi: 10.3390/bioengineering12020135
- Falletti M, Asci F, **Zampogna A**, Patera M, Pinola G, Centonze D, Hallett M, Rothwell J, Suppa A. Rigidity in Parkinson's Disease: The Objective Effect of Levodopa. *Mov Disord.* 2025; doi: 10.1002/mds.30114
- Cuccarelli M*, **Zampogna A***, Suppa A. The broad spectrum of malignant syndromes. *Neurobiol Dis.* 2024; 12:106734. doi: 10.1016/j.nbd.2024.106734. *co-authorship
- Zampogna A**, Borzi L, Soares C, Demrozi F, eds. (2024). High-tech personalized healthcare in movement disorders. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-5159-2
- Zampogna A**, Borzi L, Soares C, Demrozi F. Editorial: High-Tech Personalized Healthcare in Movement Disorders. *Front. Neurol.* 2024; 15:1452612. doi: 10.3389/fneur.2024.1452612
- Zampogna A**, Suppa A, Bove F, Cavallieri F, Castrioto A, Meoni S, Pelissier P, Schmitt E, Chabardes S, Fraix V, Moro E. Disentangling Bradykinesia and Rigidity in Parkinson Disease: Evidence from Short- and Long-Term Subthalamic Nucleus Deep Brain Stimulation. *Ann Neurol.* 2024. doi: 10.1002/ana.26961
- Zampogna A**, Borzi L, Rinaldi D, Artusi CA, Imbalzano G, Patera M, Lopiano L, Pontieri F, Olmo G, Suppa A. Unveiling the Unpredictable in Parkinson's Disease: Sensor-Based Monitoring of Dyskinesias and Freezing of Gait in Daily Life. *Bioengineering.* 2024; 11(5):440. <https://doi.org/10.3390/bioengineering11050440>
- Irrera F, Gumiero A, **Zampogna A**, Boscari F, Avogaro A, Gazzanti Pugliese di Cotrone M.A, Patera M, Della Torre L, Picozzi N, Suppa A. Multisensor Integrated Platform Based on MEMS Charge Variation Sensing Technology for Biopotential Acquisition. *Sensors* 2024, 24, 1554. <https://doi.org/10.3390/s24051554>
- Ferese R, Scala S, Suppa A, Campopiano R, Asci F, **Zampogna A** et al., Cohort analysis of novel SPAST variants in SPG4 patients and implementation of in vitro and in vivo studies to identify the pathogenic mechanism caused by splicing mutations. *Front Neurol.* 2023; 14:1296924. doi: 10.3389/fneur.2023.1296924.
- Bianchini E, Galli S, Alborghetti M, De Carolis L, **Zampogna A**, Hansen C, Vuillerme N, Suppa A, Pontieri FE. Four Days Are Enough to Provide a Reliable Daily Step Count in Mild to Moderate Parkinson's Disease through a Commercial Smartwatch. *Sensors (Basel).* 2023;23(21):8971. doi: 10.3390/s23218971.
- Suppa A, Asci F, Costantini G, Bove F, Piano C, Pistoia F, Cerroni R, Brusa L, Cesarini V, Pietracupa S, Modugno N, **Zampogna A** et al., Effects of deep brain stimulation of the subthalamic nucleus on patients with Parkinson's disease: a machine-learning voice analysis. *Front Neurol.* 2023;14:1267360. doi: 10.3389/fneur.2023.1267360
- Asci F, Di Stefano G, Di Santo A, Bianchini E, Leone C, La Cesa S, **Zampogna A**, Cruccu G, Suppa A. Pain-motor integration in chronic pain: A neurophysiological study. *Clin Neurophysiol.* 2023;154:107-115. doi: 10.1016/j.clinph.2023.07.010
- Pietrosanti L, Calado A, Maria Verrelli C, Pisani A, Suppa A, Fattapposta F, **Zampogna A**, Patera M, Rosati V, Giannini F, Saggio G. Harmonic Distortion Aspects in Upper Limb Swings during Gait in Parkinson's Disease. *Electronics* 2023, 12(3), 625; <https://doi.org/10.3390/electronics12030625>
- Asci F, Falletti M, **Zampogna A**, Patera M, Hallett M, Rothwell J, Suppa A. Rigidity in Parkinson's disease: Evidence from biomechanical and neurophysiological measures. *Brain.* 2023; 5:awad114. doi:10.1093/brain/awad114
- Castelli Gattinara Di Zubiena F, Menna G, Mileti I, **Zampogna A**, Asci F, Paoloni M, Suppa A, Del Prete Z, Palermo E. Machine Learning and Wearable Sensors for the Early Detection of Balance Disorders in Parkinson's Disease. *Sensors (Basel).* 2022; 22:9903. doi: 10.3390/s22249903
- Zampogna A**, Cavallieri F, Bove F, Suppa A, Castrioto A, Meoni S, Pelissier P, Schmitt E, Bichon A, Lhomme E, Kistner A, Chabardes S, Seigneuret E, Fraix V, Moro E. Axial impairment and falls in Parkinson's disease: 15 years of subthalamic deep brain stimulation. *npj Parkinson's Disease* (2022) 8:121; <https://doi.org/10.1038/s41531-022-00383-y>

- Ferese R, Scala S, Suppa A, Campopiano R, Asci F, Chiaravallotti MA, **Zampogna A**, D'Alessio C, Fittipaldi F, Buttari F, Di Pardo A, Giardina E, Zampatti S, Fornai F, Novelli G, Fanelli M, Zecca C, Logroscino G, Centonze D, Gambardella S. Decipher non-canonical SPAST splicing mutations with the help of functional assays in patients affected by spastic paraplegia 4 (SPG4). *Clin Genet*. 2022. doi: 10.1111/cge.14142
- Asci F, Scardapane S, **Zampogna A**, D'Onofrio V, Testa L, Patera M, Falletti M, Marsili L, Suppa A. Handwriting Declines with Human Ageing: A Machine Learning Study. *Frontiers in Aging Neuroscience* 2022, 6;14:889930. doi: 10.3389/fnagi.2022.889930
- Manoni A, Gumiero A, **Zampogna A**, Ciarlo C, Panetta L, Suppa A, Della Torre L, Irrera F. Long-Term Polygraphic Monitoring through MEMS and Charge Transfer for Low-Power Wearable Applications. *Sensors* 2022, 22, 2566. <https://doi.org/10.3390/s22072566>
- Zampogna A**, D'Onofrio V, Suppa A. Theta rhythms may support executive functions in Parkinson's disease with freezing of gait. *Clinical Neurophysiology* 2022, S1388-2457(22)00170-5; <https://doi.org/10.1016/j.clinph.2022.02.007>
- Asci F, Vivacqua G, **Zampogna A**, D'Onofrio V, Mazzeo A, Suppa A. Wearable Electrochemical Sensors in Parkinson's Disease. *Sensors* 2022, 22(3), 951; <https://doi.org/10.3390/s22030951>
- Borzi L, Mazzetta I, **Zampogna A**, Suppa A, Irrera F, Olmo G. Predicting Axial Impairment in Parkinson's Disease through a Single Inertial Sensor. *Sensors (Basel)* 2022, 22(2), 412; <https://doi.org/10.3390/s22020412>
- Guerra A, Asci F, **Zampogna A**, D'Onofrio V, Suppa A, Fabbrini G, Berardelli A. Long-term changes in short-interval intracortical facilitation modulate motor cortex plasticity and L-dopa-induced dyskinesia in Parkinson's disease. *Brain Stimulation* 2022; 15:99-108. <https://doi.org/10.1016/j.brs.2021.11.016>
- Zampogna A**, Mileti I, Martelli F, Paoloni M, Del Prete Z, Palermo E, Suppa A. Early balance impairment in Parkinson's disease: evidence from robot-assisted axial rotations. *Clin Neurophysiol*. 2021; 132(10):2422-2430. doi: 10.1016/j.clinph.2021.06.023
- Guerra A, Asci F, **Zampogna A**, D'Onofrio V, Berardelli A, Suppa A. The effect of gamma oscillations in boosting primary motor cortex plasticity is greater in young than older adults. *Clin Neurophysiol*. 2021; s1388-2457(21)00085-7. doi: 10.1016/j.clinph.2021.01.032
- Borzi L, Mazzetta I, **Zampogna A**, Suppa A, Olmo G, Irrera F. Prediction of freezing of gait in Parkinson's disease using wearables and machine learning. *Sensors (Basel)*. 2021; 21(2):614. doi: 10.3390/s21020614
- Bianchini E, Mancuso M, **Zampogna A**, Guerra A, Suppa A. Cardiac cycle does not affect motor evoked potential variability: a real-time EKG-EMG study. *Brain Stimul*. 2021; 14(1):170-172. doi: 10.1016/j.brs.2020.12.009
- Guerra A, Asci F, **Zampogna A**, D'Onofrio V, Petrucci S, Ginevrino M, Berardelli A, Suppa A. Gamma-transcranial alternating current stimulation and theta-burst stimulation: inter-subject variability and the role of BDNF. *Clin Neurophysiol*. 2020;131:2691-2699. doi:10.1016/j.clinph.2020.08.017
- Zampogna A**, Manoni A, Asci F, Liguori C, Irrera F, Suppa A. Shedding light on nocturnal movements in Parkinson's disease: evidence from wearable technologies. *Sensors (Basel)*. 2020; 20:e5171. doi: 10.3390/s20185171
- Asci F, Costantini G, Di Leo P, **Zampogna A**, Ruoppolo G, Berardelli A, Saggio G, Suppa A. Machine-learning analysis of voice samples recorded through smartphones: the combined effect of ageing and gender. *Sensors (Basel)*. 2020; 20:e5022. doi:10.3390/s20185022
- Zampogna A**, Mileti I, Palermo E, Celletti C, Paoloni M, Manoni A, Mazzetta I, Dalla Costa G, Pérez-López C, Camerota F, Leocani L, Cabestany J, Irrera F, Suppa A. Fifteen years of wireless sensors for balance assessment in neurological disorders. *Sensors (Basel)*. 2020; 20:3247. doi:10.3390/s20113247
- Mileti I*, **Zampogna A***, Santuz A, Asci F, Del Prete Z, Arampatzis A, Palermo E, Suppa A. Muscle synergies in Parkinson's disease. *Sensors (Basel)*. 2020; 20:3209. doi:10.3390/s20113209. * co-authorship

- Bharti K, Suppa A, Tommasin S, **Zampogna A**, Pietracupa S, Berardelli A, Pantano P. Neuroimaging advances in Parkinson's disease with freezing of gait: a systematic review. *Neuroimage Clin.* 2019; 24:102059. doi:10.1016/j.nicl.2019.102059
- Bharti K, Suppa A, Pietracupa S, Upadhyay N, Gianni C, Leodori G, Di Biasio F, Modugno N, Petsas N, Grillea G, **Zampogna A**, Berardelli A, Pantano P. Aberrant functional connectivity in patients with Parkinson's disease and freezing of gait: a within- and between-network analysis. *Brain Imaging Behav.* 2019. doi:10.1007/s11682-019-00085-9
- Mazzetta I, **Zampogna A**, Suppa A, Gumiero A, Pessione M, Irrera F. Wearable sensors system for an improved analysis of freezing of gait in Parkinson's disease using electromyography and inertial signals. *Sensors (Basel).* 2019; 19:948. doi:10.3390/s19040948
- Bharti K, Suppa A, Pietracupa S, Upadhyay N, Gianni C, Leodori G, Di Biasio F, Modugno N, Petsas N, Grillea G, **Zampogna A**, Berardelli A, Pantano P. Abnormal cerebellar connectivity patterns in patients with Parkinson's disease and freezing of gait. *Cerebellum.* 2018; 18:298-308. doi:10.1007/s12311-018-0988-4
- Mazzetta I, Gentile P, Pessione M, Suppa A, **Zampogna A**, Bianchini E, Irrera F. Stand-alone wearable system for ubiquitous real-time monitoring of muscle activation potentials. *Sensors (Basel).* 2018; 18:1748. doi:10.3390/s18061748
- Pietracupa S, Suppa A, Upadhyay N, Gianni C, Grillea G, Leodori G, Modugno N, Di Biasio F, **Zampogna A**, Colonnese C, Berardelli A, Pantano P. Freezing of gait in Parkinson's disease: gray and white matter abnormalities. *J Neurol.* 2018; 265:52-62. doi:10.1007/s00415-017-8654-1
- Suppa A, Kita A, Leodori G, **Zampogna A**, Nicolini E, Lorenzi P, Rao R, Irrera F. L-Dopa and freezing of gait in Parkinson's disease: objective assessment through a wearable wireless system. *Front Neurol.* 2017; 8:406. doi:10.3389/fneur.2017.00406

I authorize the processing of my personal data in accordance with Regulation (EU) 2016/679 (GDPR).

Rome, June 24, 2025
Alessandro Zampogna