

Curriculum Vitae Europass

Personal information

Surname / First name | Zampogna Alessandro

Nationality Italian

Title MD, Neurologist, PhD fellow

Movement Disorders

Work Experience (Clinical Activity)

Dates | Jul 2022 - Present

Position held | "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).

Center for Cognitive Impairment and Dementia, Department of Human Neurosciences, Policlinico

Umberto I, Rome, Italy. PI Prof. Giuseppe Bruno

Dates | Jan 2022 - Present

Position held | Freelance neurology consultant, Rome, Italy

Dates | 05/2021-07/2021

Position held | Clinical fellow, Movement Disorders Unit, Centre Hospitalier Universitaire Grenoble Alpes, Grenoble,

France. Supervisor: Prof. Elena Moro (emoro@chu-grenoble.fr).

Dates | 2020 - 2021

Position held | Sub-investigator at Phase 3 Multicenter Study of TD-9855 in Treating Symptomatic Neurogenic

Orthostatic Hypotension in Subjects with Primary Autonomic Failure - Theravance Biopharma.

Principal Investigator: Prof. Giovanni Fabbrini.

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 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 - ongoing

Position held PhD fellow in Clinical and Experimental Neurosciences and Psychiatry, Department of Human

Neurosciences, Sapienza University of Rome, Italy

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).

07-08/2020 **Dates**

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. Supervisor: Prof. Alfredo Berardelli. Co-

Supervisor: Prof. Antonio Suppa.

Dates

Title of qualification awarded Professional Qualification as Medical Doctor (OMCEOVV 1488).

> Dates 2010 - 2016

Title of qualification awarded 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

Position held "Excellence Path" student, Sapienza University of Rome, Italy.

(i.e. extracurricular academic programme for worthy students to be involved in research activities).

Dates 2005 - 2010

Title of qualification awarded Upper secondary education diploma (specialization: Classical Lyceum; final mark 100/100), Liceo

Classico M. Morelli, Vibo Valentia, Italy.

Personal skills and competences

> Italian Mother tongue(s)

Other language(s) English

Self-assessment

European level (*)

English

| Understanding | | | | Speaking | | | | Writing | |
|---------------|------------------------|---------|----------|--------------------|------------------------|-------------------|------------------------|---------|----------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| B2 | Upper- Intermediate | C1 | Advanced | B2 | Upper- Intermediate | В2 | Upper- Intermediate | C1 | Advanced |

Grants. Awards and Honours

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 *Journal of Clinical Medicine*, Open Access Journals from MDPI (ISSN 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.

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 Sensors and Applied Sciences, 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

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

Pietrosanti L, Calado A, Verrelli CM, Pisani A, Suppa A, Fattapposta F, **Zampogna A**, Patera M, Rosati V, Giannini F, et al. Harmonic Distortion Aspects in Upper Limb Swings during Gait in Parkinson's Disease. Electronics 2023, 12,625. https://doi.org/10.3390/electronics12030625

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, Lhommee 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, Chiaravalloti 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

Borzì 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/i.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

Borzì 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. Gammatranscranial 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, Giannì 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, Giannì 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, Giannì 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