Curriculum Vitae et Studiorum

Personal

Name Claudio Campus
Gender Male
Place of birth [redacted] 27 December 1980
Citizenship Italian
Address [redacted]
Phone Number
Web Site
Linkedin
ResearchGate
E-Mail
Orcid
Spoken Langueges
Military Service
Drive Licence
Fiscal Code

Since May 2016 Technician at the Italian Institute of Technology
2009-2016 Post Doc Researcher at the Italian Institute of Technology also collaborating with the Clinical Neurophysiology Unit of the University of Genoa.

2006-2009 Faculty of Medicine at the University of Genoa (Italy)

- **PhD in Experimental Neurosciences** taken (April 2009)
- **Thesis** "How CBS modulates CAP and arousal ensuring the dynamical equilibrium of sleep in physiological and pathological conditions"
- **Supervisors**: Prof. Franco Ferrillo, Dr. Fabrizio De Carli

January 2006 grant recipient **Ph. D. Student in Neurosciences** at the Center of Sleep Medicine, Department of Motor Science (DISM) of S. Martino Hospital University of Genoa (Italy).

1999-2005 Faculty of Mathematical, Physical and Natural Sciences at the University of Genoa (Italy).

- **Master degree in Physics** taken (October 2005)
- **Thesis** "Analysis of Sleep Micro-Structure"
- **Final mark**: 102/110
- **Supervisors**: Prof. Sandro Squarcia, Prof. Franco Ferrillo, Dr. Fabrizio De Carli

1999 High School-leaving examination at the Liceo Classico "G. Mazzini", Genova (Italy). Final mark: 100/100

Research activities

Fields of interest

- Neurophysiological and behavioural measures.

- Nuclear and Subnuclear Physics.
- Linear and Nonlinear models.
- Analysis of signals by means of physical methods.
- Human-technology interaction (from a human point of view).
- Application of mathematical models to understanding systems' dynamics.
- Statistical analysis and biostatistics.

Master Degree Thesis
I contributed to understanding processes that regulate the interaction between Central and Autonomous Nervous System during sleep in healthy subject, by applying linear and non-linear correlation measures to Electroencephalographic and Heart Rate signals. As linear measures usual cross-correlation and coherence were chosen. On the other hand, I found important non-linear contribute to sleep-related signal structure in different non-REM sleep conditions: descending and ascending branch of sleep cycles, stable slow wave sleep and stage 2 with or without cyclic alternating pattern (CAP). So, to detect non-linear relationship a measure called *non-linear interdependence* was adopted, with some corrections that guarantee a satisfying robustness, and so, interesting results. The algorithm for the detection of non-linear interdependence was implemented by a MatLab code based on the pattern-similarity in the *embedding state space*.

PhD Thesis
I applied the mathematical models developed and studied during my MSc Thesis to investigate pathological conditions. The diseases studied were the obstructive sleep apnoea syndrome (OSAS) and the periodic limb disorder (PLMD). These pathologies can highly compromise the normal sleep structure generating an excessive daytime sleepiness (EDS). The results found in our studies showed a clear relationship among Central, Autonomic and Peripheral Nervous systems in the mechanism that consent both to respond to external/internal sleep-perturbing stimuli (during a so called permissive window), and to guarantee the conservation of the sleep process. The sleep-project is then realized by means of the interaction of different structures always in a dynamical equilibrium.

Current Activity

My primary work at the Italian Institute of Technology as a technician and data scientist is focused on the study and quantification of the cognitive reactions and processes occurring in subjects interacting with new technological devices and on the development of quantitative on-line measures of the goodness and effectiveness of such new technological devices with respect to the comfort and the optimal information processing of the human brain.

Studies

University

Characterizing courses: Medical Physics, Nuclear Forces Theory, Nuclear and Subnuclear Physics Laboratory.

First and second year: Classical Physics (mechanics, thermodynamics, electromagnetism, waves) and Mathematics (calculus and geometry); experimental techniques of data acquisition and analysis, basic measurements in classical physic; fundamentals of analogue electronics; programming in Fortran and C in the Unix environment; inorganical chemistry with some laboratory experiences.

Third year: nonrelativistic quantum mechanics, structure of matter, tensor analysis, differential geometry and its application to the special relativity, complex analysis, Fourier analysis, digital electronics, data acquisition with the LabView software, elements of nuclear physics. Experimental Physics III course final project: realization of a particle (muon) detector.

Fourth year: medical physics, theory of nuclear forces, cosmology and astroparticle physics, nucleosynthesys and inflation, cosmic microwave background, dark matter, GUT, supersymmetry, CP violation, neutrinos and oscillations, cosmic rays; review of the experimental techniques in astroparticle physics, nuclear and subnuclear physics laboratory.

Schools and Meetings

Meeting about "Sleepiness ascribed accidents: preventive strategies", Genova. 16 november 2004

Lectures

- "Time Frequency Analysis" by Prof. Leon Cohen, Dipartimento di Ingegneria Biofisica ed Elettronica dell' Università degli studi di Genova, Genova**,** 26-27 july 2005
- 4th European School of Neuro-IT and Neuroengineering Dynamics, Computation and Learning in Neural Systems, Genova, June 13-17, 2006

Online Courses

- The Data Scientist's Toolbox by Johns Hopkins University on Coursera. Certificate earned on November 1, 2015 (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/records/PaX3kKFCZYmtBVr3
- R Programming by Johns Hopkins University on Coursera. Certificate earned on November 29, 2015, (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/records/PVnUtAZG6dyHXpgf
- Getting and Cleaning Data by Johns Hopkins University on Coursera. Certificate earned on January 3, 2016 (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/records/PJCKhWq7LcYBfDKH
- Exploratory Data Analysis by Johns Hopkins University on Coursera. Certificate earned on February 3, 2016 (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/records/E5DN4T9SJP2P
- Reproducible Research by Johns Hopkins University on Coursera. Certificate earned on February 29, 2016 (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/records/3LFTBMLL9T8X
- Statistical Inference by Johns Hopkins University on Coursera. Certificate earned on March 31, 2016 (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/records/V9QZTD8WAJ49
- Practical Machine Learning by Johns Hopkins University on Coursera. Certificate earned on May 30, 2016 (Grade Achieved: 100.0%) https://www.coursera.org/account/accomplishments/certificate/SL7WA455L6KC
- Developing Data Products by Johns Hopkins University on Coursera. Certificate earned on June 25, 2016 (Grade Achieved: 98.6%) https://www.coursera.org/account/accomplishments/certificate/W844B3MYSCMF

Conferences

- F. De Carli, C. Campus, M. Lisanti, F. Ferrillo,"EEG structure during sleep and its relationship with cardiac and respiratory activity". XV Congresso Nazionale Associazione Italiana di Medicina del Sonno, Roma, Italy, 27-30 November 2005
- Claudio Campus, Fabrizio De Carli, Maria Lisanti, Franco Ferrillo. "Sleep EEG microstructure and heart rate in normal sleep and in association with breathing disorders". 18th Congress of the European Sleep Research Society, Innsbruck, Austria, September 12-16 2006
- Sergio Garbarino,Fabrizio De Carli,Claudio Campus, Maria Lisanti, Stefania Donadio , Cecilia Manfredi, Cuomo Gianni, Franco Ferrillo. "The contributing role of sleepiness in alcohol ascribed vehicle accidents". 18th Congress of the European Sleep Research Society, Innsbruck, Austria, September 12-16 2006
- S. Donadio, F. Ferrillo, M. Allena, E. Bozano, C. Campus, F. De Carli, M. Lisanti, L. Nobili. "A mathematical model of sleep as tool for the detection of parameters characterizing sleep disorders". 18th Congress of the European Sleep Research Society, Innsbruck, Austria, September 12-16 2006
- F. Ferrillo , M. Allena, C. Campus, S. Garbarino, C. Manfredi, E. Morrone, D. Rossi Sebastiano, F. De Carli. "Variazioni dell' EEG associate ai movimenti periodici delle gambe durante il sonno non REM XVII Congresso Nazionale Associazione Italiana di Medicina del Sonno, Palermo, Italy, 7-10 October 2007
- C. Campus, F. De Carli, E. Morrone, S. Garbarino, F. Ferrillo. "The contributing role of alcool and sleepiness in vehicle accidents". 19th Congress of the European Sleep Research Society, Glasgow, Scotland, September 9-13 2008
- F. Nobili, D. Arnaldi, C. Campus, S. Morbelli, A. Brugnolo, B. Dessi, D. Mazzei, F. Famà, L. Marinelli, F. De Carli, G. Sambuceti, G. Abbruzzese, G. Rodriguez. "The influence of nigrostriatal dopaminergic dysfunction on cognition of de novo Parkinson's Disease (PD) patients". XL Congresso Società Italiana di Neurologia, Padova 21-25 novembre 2009.
- D. Arnaldi, C. Campus, F. Nobili, D. Mazzei, F. Spizzica, F. Famà, B. Dessi, G. Rodriguez. "Duplex scan evaluation of internal carotid artery (ica) stenosis: is diastolic blood velocity a secondary or primary parameter?" XL Congresso Società Italiana di Neurologia, Padova 21-25 novembre 2009.
- Campus C., Brayda L., Rodriguez G., Chellali R. "Evaluating visuo-tactile sensory substitution for navigation in virtual worlds: preliminary neurophysiological assessment and results on a tactile-based interface". In Proceedings of Humanoids09 9th IEEE-RAS International Conference on Humanoid Robots. Tactile sensing workshop @ Humanoids '09 - Humanoids09 9th IEEE-RAS International Conference on Humanoid Robots.
- Luca Brayda, Claudio Campus, Guido Rodriguez and Ryad Chellali, Understanding the transfer from tactile feedback to spatial 3D representation through EEG using a virtual reality-based sensory substitution device, in Proceedings of Laval Virtual - 12th Virtual Reality International Conference (VRIC 2010), 7-9 April 2010, Laval, France.
- Luca Brayda, Claudio Campus, Ryad Chellali and Guido Rodriguez. Objective evaluation of spatial information acquisition using a visuo-tactile sensory substitution device. In Proceeding of International Conference on Social Robotics (ICSR 2010) 23rd-24th November 2010 Singapore
- Luca Brayda, Claudio Campus, Ryad Chellali, Guido Rodriguez and Cristina Martinoli. An investigation of search behaviour in a tactile exploration task for sighted and non-sighted adults. ACM CHI 2011, 7-12 May 2011, Vancouver, Canada
- Claudio Campus, Luca Brayda, Ryad Chellali, Cristina Martinoli, and Guido Rodriguez. A neurophysiological and behavioral investigation of tactile spatial exploration for sighted and non-sighted adults. Proceedings of the Human Factors and Ergonomics Society Annual Meeting September 2011, Las Vegas, Nevada, USA 55: 227-231

- Luca Brayda, Claudio Campus. Conveying perceptible virtual tactile maps with a minimalist sensory substitution device. IEEE symposium on Haptic Audio-Visual Environments and games (IEEE HAVE 2012)
- S. Morbelli, R. Conzi, C. Campus, G. Cittadini, I. Bossert, M. Massollo, C. Marini, C. Ghersi, S. Fiordoro, E. Giglio, P. Perfumo, L. Derchi, G. Sambuceti. Impact of contrast-enhanced 18F-FDG PET/CT in clinical oncology: tumor-, site- and question-based comparison with standard PET/CT. EANM'12 Annual Congress of the European Association of Nuclear Medicine
- Luca Brayda, Claudio Campus, Monica Gori. What you touch is what you get: self-assessing a minimalist tactile sensory substitution device. IEEE World Haptics Conference 2013, the 5th Joint Eurohaptics Conference and the IEEE Haptics Symposium (IEEE WHC 2013)
- Memeo, M.; Campus, C.; Lucagrossi, L.; Brayda, L. Similarity of blind and sighted subjects when constructing maps with small-area tactile displays: performance, behavioral and subjective aspects. Eurohaptics 2014
- Memeo, M.;Campus, C.;Brayda, L. Do blind subjects differ from sighted subjects when exploring virtual tactile maps? International Conference on Computers Helping People with special needs 2014
- Brayda L, Campus C, Memeo M, Lucagrossi L, The importance of visual experience, gender and emotion in the assessment of an assistive tactile mouse. IEEE transactions on haptics, 2015
- EEG modulation in cerebral palsy and healthy children during action observation compared to execution. European Conference of Paediatric Neurology 2015
- EEG modulation during grasping movements of both hands in children affected by hemiplegic cerebral palsy. European Conference of Paediatric Neurology 2015
- Campus C., Sandini G., Morrone MC., Gori M. Spatial but not temporal bisection of sound sources elicit early occipital cortex responses in human. European Conference on Visual Perception ECVP 2016
- Tonelli A., Campus C., Serino A., Gori M. Echolocation modifies your peripersonal space . European Conference on Visual Perception ECVP 2016
- Aggius-Vella E., Campus C., Finocchietti S., Gori M.Auditory space around the body
- Aggius-Vella E., Campus C., Finocchietti S., Gori M. AUDITORY SPACE REPRESENTATION ON THE HORIZONTAL PLANE. International Multisensory Research Forum 2016
- Amadeo M.B., Campus C., Gori M. Time attracts space perception in young children. European Conference on Visual Perception ECVP 2017
- Aggius-Vella E., Campus C., Gori M. Indirect visual influence on different spaces around the body. European Conference on Visual Perception ECVP 2017
- Aggius-Vella E., Campus C., Gori M. Role of senses in representing portions of spaces around our body. Vision Science Society 2017
- Tonelli A., Brayda L., Campus C., Serino A., Gori M. Investigate echolocation with sighted people. International Multisensory Research Forum 2017
- Amadeo M.B., Campus C., Gori M. Impact of years of blindness on neural circuits underlying spatial perception. International Multisensory Research Forum 2017
- Campus C., Sandini G., Gori M. Building auditory spatial metrics elicits stronger early occipital response in sighted than in blind individuals. International Multisensory Research Forum 2017
- Tonelli A., Campus C., Serino A., Gori M. Auditory training with echolocation modifies your peripersonal space. 3rd Symposium of Lausanne University Hospital Neuroscience Research Conter 2017
- Amadeo M.B., Campus C., Gori M., Attraction of time on space cognition during development., Annual Conference of the Italian Association for Cognitive Sciences, 2017
- Martolini C., Cappagli G., Campus C., Gori M., Auditory feedback effects on spatial learning: shape recognition after audio-motor training, 19th Annual International Multisensory Research Forum Toronto, 2018
- Amadeo M.B., Stormer V.S., Campus C., Gori M., Peripheral, task-irrelevant sounds activate contralateral visual cortex even in blind individuals., 19th Annual International Multisensory Research Forum Toronto, 2018

- Tonelli A., Campus C., Gori M., Occipital early responses to sound localization in expert blind echolocators, 19th Annual International Multisensory Research Forum Toronto, 2018
- Gori M., Amadeo M.B., Valzolgher C., Baruffaldi F., Pavani F., Campus C., Temporal visual representation elicits early auditory responses in normal hearing but not in deaf individuals., European Conference on Visual Perception ECVP 2018 (Trieste), 2018
- Tonelli A., Campus C., Serino A., Brayda L., Gori M., Echolocation modifies your peripersonal space, European Conference on Visual Perception ECVP, vol. 45, pp. 330, 2016
- Amadeo M.B., Campus C., Gori M., Visual temporal representation elicits early responses in human auditory cortex ., European Conference on Visual Perception 2018 (Trieste), 2018
- Martolini C., Cappagli G., Campus C., Gori M., Improvement of auditory shapes recognition after an audio-motor training, The Blind Brain Workshop on the Sensory Deprived Brain, 2018
- Cuturi L.F., Torazza D., Campus C., Merello A., Lorini C., Crepaldi M., Sandini G., Gori M., The RT-Chair: a Novel Motion Simulator to Measure Vestibular Perception, 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2020), 2020
- Ahmad H., Setti W., Maviglia A., Capris E., Campus C., Gori M., A novel device to understand audio-spatial representation in individuals with scotoma, IEEE International Symposium on Medical Measurements and Applications, 2019
- Ahmad H., Setti W., Maviglia A., Capris E., Campus C., Monica G., A novel device to understand audio-spatial representation in individuals with scotoma, Medical Measurements and Applications, MeMeA 2019 - Symposium Proceedings, 2019, 10.1109/MeMeA.2019.8802172
- Gori M., Amedeo M.B., Bollini A., Tonelli A., Campus C., Maviglia A., Crepaldi M., MSI Caterpillar: An Effective Multisensory System to Evaluate Spatial Body Representation, IEEE International Symposium on Medical Measurements and Applications (MeMeA), 2019
- Gori M., Amadeo M.B., Bollini A., Tonelli A., Campus C., Maviglia A., Crepaldi M., MSI Caterpillar: An Effective Multisensory System to Evaluate Spatial Body Representation, IEEE International Symposium on Medical Measurements and Applications (MeMeA), 2019
- Gori M., Bollini A., Maviglia A., Amadeo M.B., Tonelli A., Crepaldi M., Campus C., MSI Caterpillar: An Effective Multisensory System to Evaluate Spatial Body Representation, Medical Measurements and Applications, MeMeA 2019 - Symposium Proceedings, 2019, 10.1109/MeMeA.2019.8802133
- Marini F., Zenzeri J., Pippo V., Morasso P., Campus C., Movement related activity in the Î¼ band of the human EEG during a robot-based proprioceptive task, 2009 IEEE International Conference on Rehabilitation Robotics, ICORR 2009, 2019
- Gori M., Amadeo M.B., Valzolgher C., Baruffaldi F., Pavani F., Campus C., Temporal visual representation elicits early auditory responses in normal hearing but not in deaf individuals., European Conference on Visual Perception ECVP 2018 (Trieste), 2018
- Gori M., Amadeo M.B., Valzolgher C., Baruffaldi F., Pavani F., Campus C., Temporal visual representation elicits early auditory responses in normal hearing but not in deaf individuals., European Conference on Visual Perception ECVP 2018 (Trieste), 2018
- Martolini C., Cappagli G., Campus C., Gori M., Auditory feedback effects on spatial learning: shape recognition after audio-motor training, 19th Annual International Multisensory Research Forum Toronto, 2018
- Aggius-Vella E., Campus C., Gori M., Auditory spatial representation around the body, MeeTo 2018: From moving bodies to interactive minds, 2018
- Tonelli A., Campus C., Gori M., Expert blind echolocators activate occipital early responses, but not early blind people, to sound localization., The Blind Brain Workshop on the Sensory Deprived Brain, 2018
- Martolini C., Cappagli G., Campus C., Gori M., Improvement of auditory shapes recognition after an audio-motor training, The Blind Brain Workshop on the Sensory Deprived Brain, 2018
- Amadeo M.B., Campus C., Gori M., Individuals with long blindness duration â€œvisualizeâ€• space through time., MeeTo 2018: From moving bodies to interactive minds, 2018
- Aggius-Vella E., Campus C., Gori M., Influence of time in representing different regions of space, European Conference on Visual Perception ECVP 2018 (Trieste), 2018

- Aggius-Vella E., Campus C., Gori M., Influence of visual experience on auditory spatial representation around the body, 19th Annual International Multisensory Research Forum Toronto, 2018
- Tonelli A., Campus C., Gori M., Occipital early responses to sound localization in expert blind echolocators, 19th Annual International Multisensory Research Forum Toronto, 2018
- Amadeo M.B., Stormer V.S., Campus C., Gori M., Peripheral, task-irrelevant sounds activate contralateral visual cortex even in blind individuals., 19th Annual International Multisensory Research Forum Toronto, 2018
- Ahmad H., Setti W., Campus C., Capris E., Fachini V., Sandini G., Gori M., The Sound of the Scotoma: Audio Space representation reorganization in individuals with scotoma, International Multisensory Research Forum, 2018
- Amadeo M.B., Campus C., Gori M., Visual temporal representation elicits early responses in human auditory cortex ., European Conference on Visual Perception 2018 (Trieste), 2018
- Ahmad H., Setti W., Maviglia A., Capris E., Campus C., Gori M., A novel device to understand audio-spatial representation in individuals with scotoma, IEEE International Symposium on Medical Measurements and Applications, 2019
- Ahmad H., Setti W., Maviglia A., Capris E., Campus C., Monica G., A novel device to understand audio-spatial representation in individuals with scotoma, Medical Measurements and Applications, MeMeA 2019 - Symposium Proceedings, 2019, 10.1109/MeMeA.2019.8802172
- Gori M., Amedeo M.B., Bollini A., Tonelli A., Campus C., Maviglia A., Crepaldi M., MSI Caterpillar: An Effective Multisensory System to Evaluate Spatial Body Representation, IEEE International Symposium on Medical Measurements and Applications (MeMeA), 2019
- Gori M., Amadeo M.B., Bollini A., Tonelli A., Campus C., Maviglia A., Crepaldi M., MSI Caterpillar: An Effective Multisensory System to Evaluate Spatial Body Representation, IEEE International Symposium on Medical Measurements and Applications (MeMeA), 2019
- Gori M., Bollini A., Maviglia A., Amadeo M.B., Tonelli A., Crepaldi M., Campus C., MSI Caterpillar: An Effective Multisensory System to Evaluate Spatial Body Representation, Medical Measurements and Applications, MeMeA 2019 - Symposium Proceedings, 2019, 10.1109/MeMeA.2019.8802133
- Marini F., Zenzeri J., Pippo V., Morasso P., Campus C., Movement related activity in the Î¼ band of the human EEG during a robot-based proprioceptive task, 2009 IEEE International Conference on Rehabilitation Robotics, ICORR 2009, 2019
- Bollini A., Campus C., Gori M., Crossing the hands in cross-modal contexts affects the spatial cognition: Evidence from EEG, Annual meeting Society for Neuroscience 2019, 2019
- Bollini A., Campus C., Gori M., Frame of reference conflicts in cross-modal Simon effect, European Conference on Visual Perception ECVP 2019 Leuven, 2019
- Amadeo M.B., Crosse M.J., Gori M., Campus C., Foxe J.J., Molholm S., Modality switch effects and the impact of predictability of the sensory environment, Vision Science Society, 2019
- Aggius-Vella E., Gori M., Burr D., Campus C., Petri S., Tinelli F., Motor influence in developing spatial cognition in children, Child Vision Research Society (CVRS) 2019, 2019
- Tonelli A., Amadeo M.B., Campus C., Gori M., Neurophysiological responses on size perception: the influence of sound and visual adaptation., Vision Science Society, 2019
- Tonelli A., Amadeo M.B., Cuturi L.F., Campus C., Gori M., Percezione della grandezza: studio sullâ€™interazione tra visione e udito., XXV Congresso AIP Sezione Sperimentale, 2019
- Amadeo M.B., Campus C., Pavani F., Gori M., Space is used to infer time in deaf individuals, European Conference on Visual Perception ECVP 2019 Leuven, 2019
- Cuturi L.F., Torazza D., Campus C., Merello A., Lorini C., Crepaldi M., Sandini G., Gori M., The RT-Chair: a Novel Motion Simulator to Measure Vestibular Perception, 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2020), 2020
- Bertonati G., Amadeo M.B., Campus C., Gori M., Auditory speed processing in sighted and blind individuals, Vision Sciences Society, 2021
- Gori M., Vitali M., Signorini S., De Giorgis V., Papalia G., Morelli F., Campus C., How the lack of vision affects the development of alpha activity in the earliest stages of life, European Conference of Vision Perception, 2021

- Gori M., Vitali H., Signorini S., De Giorgis V., Papalia G., Morelli F., Campus C., How the lack of vision affects the development of alpha activity in the earliest stages of life, European Conference on Visual Perception ECVP 2021, 2021
- Gori M., Campus C., Signorini S., Bremner A., Multisensory spatial perception in visually impaired infants, BRNET Workoshop, 2021
- Gori M., Crepaldi M., Campus C., Orciari L., Merello A., DellePiane D., Parmiggiani A., RoMAT: Robot for Multisensory Analysis and Testing of visual-tactile perceptual functions, EMBC Proceedings, 2021
- Gori M., Campus C., Signorini S., Rivara E., Bremner A., The ontogeny of spatial perception in sighted and blind infants, Visual Science Society, 2021
- Casado M., Campus C., Gori M., Audio-Tactile dynamic multisensory integration in sighted and blind individuals, 8th International Conference on Spatial Cognition, 2021
- Bertonati G., Amadeo M.B., Campus C., Gori M., Auditory speed processing in sighted and blind individuals, Vision Sciences Society, 2021
- Domenici N., Sanguineti V., Morerio P., Campus C., Del Bue A., Gori M., Murino V., Computational Modeling of Human Multisensory Source Localization by a Neural Architecture, European Conference on Visual Perception ECVP 2021, 2021
- Amadeo M.B., Tonelli A., Campus C., Gori M., Deaf people show a weaker flash-lag illusion, Society for Neuroscience Annual Meeting, 2021
- Vitali H., Campus C., Signorini S., De Giorgis V., Morelli F., Papalia G., Fasce M., Gori M., EEG spectral activity and its association with sensory-motor coordination in blind and sighted children., Society of Neuroscience, 2021
- Casado M., Campus C., Tonelli A., Gori M., Multisensory integration of dynamic stimuli and the role of active touch, 50th SFN Annual Meeting, Chicago (IL, USA), 2021
- Casado M., Campus C., Gori M., Multisensory spatial processing of dynamic stimuli in sighted and in blind individuals., XXVII Congresso Nazionale AIP Sezione Psicologia Sperimentale, 2021
- Vitali H., Campus C., De Giorgis V., Signorini S., Morelli F., Fasce M., Gori M., Non-nutritive sucking as a possible tool for blind infants to map space: an EEG study, 8th International Conference on Spatial Cognition, 2021
- Bertonati G., Amadeo M.B., Campus C., Gori M., Task-specific cortical organization of multisensory spatial representation, 50th annual meeting Society for Neuroscience, 2021
- Vitali H., Campus C., Signorini S., De Giorgis V., Morelli F., Papalia G., Fasce M., Gori M., The development of alpha activity in infants/children: a possible tool for sensorimotor integration., European Conference on Visual Perception ECVP, 2021
- Martolini C., Amadeo M.B., Campus C., Cappagli G., Gori M., Impact of audio-motor training on spatiotemporal representations in long-term late blindness, 2021
- Gori M., Amadeo M.B., Campus C., Cappagli G., Martolini C., Multisensory development in typical and blind children and adults: cortical plasticity and rehabilitation technology, 2021
- Tammurello C., Amadeo M.B., Campus C., Setti W., Tonelli A., Gori M., Audiotactile somatic rubber hand illusion: a pilot study., Body Representation Network, 2022
- Bertonati G., Amadeo MB., Campus C., Gori M., ERP components of multisensory spatial representation in the visual cortex, FENS Forum 2022, 2022
- Casado Palacios M., Tonelli A., Campus C., Gori M., Effects of a non-informative auditory feedback over touch in the blindness, International Multisensory Research Forum, 2022
- Gori M., Amadeo MB., Pavani F., Campus C., Hearing the visual rhythm and seeing the audio space: early cortical sensory responses in typical but not in blind and deaf individuals, 2022
- Gori M., Bertonati G., Amadeo M.B., Pavani F., Campus C., Hearing the visual rhythm and seeing the audio space: early cortical sensory responses in typical but not in blind and deaf individuals., International forum of multisensory research, 2022
- Tammurello C., Amadeo MB., Campus C., Setti W., Tonelli A., Gori M., Listen to your fake hand: the effect of sound on the somatic rubber hand illusion, International Multisensory Research Forum, 2022
- Amadeo M.B., Campus C., Gori G., Low-level supramodal activation of sensory cortices during complex spatial and temporal tasks, 2022

- Amadeo M.B., Campus C., Gori M., Low-level supramodal activation of sensory cortices during complex spatial and temporal tasks, 2022
- Vitali H., Campus C., Gori M., Multisensory processing in infants and during development: Focus on The development of cortical activity during waking and sleep stages in children with and without visual impairment, 2022
- Gori M., Vitali H., Campus C., Nuove tecnologie alla scoperta dei nostri sensi, 2022
- Amadeo M.B., Martolini C., Cappagli G., Campus C., Gori M., One-month audio-motor training improves some spatial abilities of late-blind people., FENS Forum 2022, 2022
- Bertonati G., Amadeo MB., Campus C., Gori M., Organizzazione dominio-specifica dei processi multisensoriali a livello corticale, XXX Congresso Nazionale Associazione Italiana di Psicologia, 2022
- Bremner A., Campus C., Signorini S., Tonelli A., Gori M., Orienting responses to tactile and auditory stimuli on the hands in sighted and blind infants, 2022
- Bremner A., Tonelli A., Signorini S., Campus C., Gori M., Orienting responses to tactile and auditory stimuli on the hands in sighted and blind infants, International forum of multisensory research, 2022
- Bremner A., Tonelli A., Signorini S., Campus C., Gori M., Orienting responses to tactile and auditory stimuli on the hands in sighted and blind infants, 2022
- Vitali H., Campus C., Signorini S., De Giorgis V., Morelli F., Fasce M., Gori M., Sensorimotor brain oscillations in human toddlers, Federation of European Neuroscience Societies Forum, 2022
- Vitali H., Campus C., De Giorgis V., Signorini S., Morelli F., Varesio C., Gori M., Sleep Architecture Development in Blind and Sighted Children, World Sleep Congress, 2022
- Vitali H., Campus C., Signorini S., De Giorgis V., Gori M., The development of cortical activity during waking and sleep stages in children with and without visual impairment, International Multisensory Research Forum, 2022
- Casado Palacios M., Tonelli A., Campus C., Gori M., The role of active touch: differential mechanism in blindness, Cognitive Neuroscience Society Annual Meeting 2022, 2022
- Setti W., Vitali H., Campus C., Picinali L., Gori M., A novel system to evaluate audio-spatial memory skills: the Audio-Corsi, IMRF, 2023
- Bollini A., Tacchino A., Podda J., Pedullà L., Bellosta A., Brichetto G., Campus C., Gori M., Assessing Interhemispheric Transfer Time in Multiple Sclerosis: Implications for Motor Coordination., 28 th Annual RIMS Conference, 2023
- Setti W., Vitali H., Campus C., Picinali L., Setti W.M.G., Audio-Corsi: A novel system to evaluate audio-spatial memory skills, Annual International Conference of the IEEE Engineering in Medicine and Biology - Proceedings, 2023, 10.1109/EMBC40787.2023.10339960
- Setti W., Vitali H., Campus C., Picinali L., Gori M., Audio-Corsi: a new system to understand the relationship between sleep and audio spatial memory, EMBC, 2023
- Coelho L., Tammurello C., Campus C., Gonzalez C., Gori M., Beyond Vision: Exploring Haptic Body Representations in Blindness and Sightedness., Body Representation Network, 2023
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Book chapters

- Gori M., Amadeo M.B., Campus C., Audio Cortical Processing in Blind Individuals, IntechOpen, 2019, 10.5772/intechopen.88826

Other projects

- A pipeline for standardized semiautomatic and reproducible processing of EEG data. https://github.com/eegtools/eegtools-matlab-pipeline.git

Grants

- PhD grant sponsored by ENI (2006-2008).
- ESRS travel grant (18th ESRS congress 2006).

Computer skills

- Excellent knowledge of Windows and Linux operating systems and its software for office.
- Excellent knowledge of the R programming language and RStudio IDE.
- Excellent knowledge of LATEX.
- Excellent knowledge of the mathematical applications MatLab (and toolboxes as EEGLab or Psychtoolbox), Octave.
- Good knowledge of other statistical environments (SAS, SPSS STATISTICA, JASP).

Other skills

- Supported the EU funded projects
    - ABBI project https://www.abbiproject.eu/: experiment designing/protocol writing, experiment managing, data analysis, dissemination
    - BLINDPAD project https://www.blindpad.eu/: project writing, experiment designing/protocol writing, data analysis
    - MySpace ERC project https://myspaceproject.eu/it/ project writing, experiment designing/protocol writing, data analysis
- Excellent experience in the field of experiments involving physiological and behavioral evaluation of human subjects (visually impaired adults and children and healthy controls)
    - Writing experimental protocols
    - Conducting experiments
    - Processing multi-domain data (favorite field)
    - Supporting data presentation in conferences or journal papers (if strongly required also presenting as first author)
- Excellent knowledge of the BRAIN PRODUCTS, BIOSEMI and EBNEURO EEG acquisition systems (>100 recordings with each system).
- Excellent experience in interfacing with multi-disciplinary teams (with engineering, psychological, or medical/clinical background)
- Excellent experience in data science, complex modeling, dimension reduction and data mining techniques.

Didactics

- **2006-2009** Tutor at the Clinical Neurophysiology, Course of Neurophiopatology Techniques
- **2013** Course of Basic EEG Analysis at the RBCS department of IIT
- **From 2014** Adjunct Professor for the Course of Advanced EEG Analysis at the University of Genova.