

INFORMAZIONI PERSONALI

Dott.ssa Myrka Zago



Sesso Donna | Data di nascita 20/06/1970 | Nazionalità italiana

POSIZIONE RICOPERTA

Deputy-coordinator, National PhD Program in Space Science and Technology

TITOLO DI STUDIO

Master, Management in Healthcare, SDA Bocconi University

ESPERIENZA
PROFESSIONALE

Da 2022 ad oggi	Deputy-coordinator, National PhD Program in Space Science and Technology – SST University of Trento, Italy
2021 ad oggi	Director of the Center for Space Bio-Medicine University of Rome Tor Vergata, Rome, Italy
2018 ad oggi	Teacher of the Course “Space Physiology”, Degree in Medical Engineering University of Rome Tor Vergata, Rome, Italy
2018 ad oggi	Full Professor of Physiology University of Rome Tor Vergata, Rome, Italy
2018 ad oggi	Director, Laboratory of Visuomotor Control and Gravitational Physiology FSL, Rome Italy
2018 ad oggi	Review Editor, Frontiers in Physiology section Environmental, Aviation and Space Physiology
2017 ad oggi	Academic Editor, PeerJ, area Integrative Physiology
2017 - 2022	Associate Editor, Frontiers in Physiology section Exercise Physiology
2018 ad oggi	The Open Behavioral Science Journal, The Open Behavioral Science Letters, The Open Behavioral Science Reviews

ISTRUZIONE E FORMAZIONE

2002 - 2003	Master, Management in Healthcare, SDA Bocconi University
1995-1999	PhD in Electronic Engineering (Biomedical subject area), Sapienza University, Rome
1995	National Board Admission to the profession of Engineer
1995	Graduate degree (Laurea) with full marks in Electronic Engineering (Biomedical subject area) at Sapienza University, Rome

COMPETENZE PERSONALI

Lingua madre Italiano

Competenze professionali

- 25 years of experience in research with astronauts. Experience includes experiments aboard the space shuttle (7 astronauts), ISS (13 astronauts and parabolic flights (25 participants). Since 1998, coordination of the activities of the Laboratory of Gravitational Physiology in space research projects with ASI, ESA, NASA, including the following:
 - Neurolab NASA, STS 90 mission Space Shuttle (6 astronauts)
 - Project VOILA ESA/NASA.
 - Project HPA mission (astronauts Ed Lu, Mike Foale, Roberto Vittori) on the International Space Station (ISS)
 - "Esperia" mission (astronaut Paolo Nespoli) on the ISS
 - IMAGINE, mission ELITE S2 on the ISS
 - IMAGINE2, mission ELITE S2 on the ISS
 - Slink, "Futura" mission (astronaut Samantha Cristoforetti) on the ISS
 - P.I. or Co P.I. in international space programs (VOILA with CNES, ESA, NASA) or national space programs (ASI)

ULTERIORI INFORMAZIONI

Pubblicazioni

Total number of peer-reviewed publications: 71 Journals, > 60 meeting abstract or proceedings

Documents by author: 63 (Scopus), 67 (WoS), 102 (Google Scholar)

Citations: 3271 (Scopus), 3082 (WoS), 4 855 (Google Scholar)

h-index: 31 (Scopus), 32 (WoS), 33 (Google Scholar)

Average number of authors per published article: 4.8

10 relevant publications (all journals belonging to the first Scopus quartile Q1+book chapter):

La Scaleia B, Lacquaniti F, Zago M (2023) Enhancement of Vestibular Motion Discrimination by Small stochastic whole body perturbations in young healthy humans, Neuroscience 510, pp. 32-48 (available online since Dec 17, 2022)

Gravano S, Lacquaniti F, Zago M (2021). Mental imagery of object motion in eightlessness. NPJ MICROGRAVITY, vol. 7(1):50

Jörges B, La Scaleia B, López Moliner J, Lacquaniti F, Zago M. (2021) Perceptual judgments of duration of parabolic motions. *Sci Rep.* 11(1):7108

La Scaleia B, Ceccarelli F, Lacquaniti F, Zago M. (2020) Visuomotor interactions and perceptual judgments in virtual reality simulating different levels of gravity. *Front Bioeng Biotechnol.* 8:76.

La Scaleia, B., Lacquaniti, F. and Zago, M. (2019), Body orientation contributes to modelling the effects of gravity for target interception in humans. *J Physiol.* 597: 2021 2043.

Zago M, (2018) Perceptual and motor biases in reference to gravity. In: Timothy L. Hubbard (Ed), *Spatial Biases in Perception and Cognition*, Cambridge University Press, Cambridge, UK, pp. 156 166

Lacquaniti F, Ivanenko YP, Sylos Labini F, La Scaleia V, La Scaleia B, Willems PA, Zago M. (2017) Human Locomotion in Hypogravity: From Basic Research to Clinical Applications. *Front Physiol.* 7;8:893.

Senot P, Zago M, Le Séac'h A, Zaoui M, Berthoz A, Lacquaniti F, McIntyre J. (2012) When up is down in 0g: How gravity sensing affects the timing of interceptive actions. *J Neurosci* 32(6):1969 73.

Zago M, Lacquaniti F. (2005) Visual perception and interception of falling objects: a review of evidence for an internal model of gravity. *J. Neural Eng.* 2:S198 208.

Indovina I., Maffei V., Bosco G., Zago M. M., Macaluso E., and Lacquaniti F. (2005) Representation of visual gravitational motion in the human vestibular cortex. *Science* 308:416 9.

McIntyre, J., Zago, M.*, Berthoz, A., Lacquaniti, F. (2001) Does the brain model Newton's laws? *Nature Neurosci.* 4: 693 694. (* co corresponding author)

Attività di tutoraggio

Doctoral Advisory Committee in Neuroscience, University of Rome Tor Vergata; PhD programme committee, National PhD Program in Space Science and Technology, University of Trento; Member of the Board of PhD Thesis, University of Barcelona; co-tutoring of PhD student University of Barcelona; tutoring of PhD students since 1997

Premi e riconoscimenti

Member of the European Science Foundation College of Expert Reviewers (2022-2025)

Protocol IMAGINE (developed by M. Zago's research group at IRCCS Santa Lucia Foundation) was included in NASA Benefits for Humanity, 2nd edition, 2015, for the translational benefits of space research in medicine

Results from NASA Neurolab Space Shuttle mission published in *Nature Neuroscience* (2001, 4: 693-694, M. Zago co-corresponding author) were included by NASA in the Major Scientific Discoveries (NASA Wings in Orbit, Major Scientific Discoveries, "Eye-Hand Coordination: Changes in Visual Acuity and Manual Control", pag. 373-375), are cited in several books, including the book *Neuroscience in Space* (G. Clément, M.F. Reschke) Springer, New York, NY 2008, the book *Vestibulo-Oculomotor Research in Space* (A. Clarke) Springer International Publishing, 2017.

M. Zago collaborated in the definition of the National Aero-Space Plan (PASN) and in the definition of the 3-years Activities Plan (PTA) of ASI.

Appointed Member of Biomedicine and Biotechnology Working Group of ASI (2007-08)

Altre attività

GRANT REVIEWER FOR:

Progetti di Ricerca di base, Università di Verona 2019; Programma per Giovani Ricercatori Rita Levi Montalcini 2021; Bando FAR 2021 - Progetti Interdisciplinari Mission Oriented. Projets CogniSciences, INSERM, The Netherlands Organisation for Health Research and Development (ZonMw) TOP programme round; European Science Foundation (ESF)

JOURNAL REVIEWER FOR:

American Journal of Psychology; Behavior Research Methods; Biological Cybernetics; Cortex; Experimental Brain Research; Frontiers Human Neuroscience; Frontiers Behavioral Neuroscience; Frontiers in Human Neuroscience; Frontiers in Physiology; IEEE Transactions on Neural Systems & Rehabilitation Engineering; Journal of Applied Physiology; Journal of Motor Behaviour; Journal of Neurophysiology; Journal of Neuroscience; Journal of Vision; Medical Engineering & Physics; Neuroscience; Perception; Perceptual and Motor Skills; PlosOne; Psychonomic Bulletin & Review; Scientific Reports; Vision Research; Quarterly Journal of Experimental Psychology; Visual Cognition

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e successive modifiche
"Codice in materia di protezione dei dati personali.

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