

MARCO TULLIO LIUZZA, PhD

Associate Professor in Psychometrics

Department of Developmental Psychology and Socialization, University of Padua

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Italian citizenship

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H-index: 27 (Google Scholar), 22 (Scopus)

National scientific qualification for Full Professor - scientific-disciplinary group 11/PSI-01 (General Psychology, Neuropsychology and Cognitive Neuroscience and Psychometrics) (from 31/05/21 to 31/05/30).

RESEARCH INTERESTS

Bayesian methods in psychology. I am interested in applying multilevel Bayesian approaches to data analysis in psychological research.

Open science and replicability: I am active in projects that promote replicability and external validity of psychological research, such as the Psychological Science Accelerator.

Data analysis in multi-lab psychological research. I have been actively involved in designing the analytical strategy (a priori power analysis) and conducting Bayesian data analysis of multi-lab research such as the Many Smiles project.

The role of disgust in social attitudes and behavior. In particular, I am involved in research on the role of body odor-induced disgust in influencing social attitudes, political ideology, and sexual behavior.

The validity crisis and the measurement of olfactory function. Within the validity crisis, I am focusing on how the measurement of olfactory function needs more rigorous validation, investigating, for example, some of the most important psychometric assumptions of the use of widely used olfactory function assessment instruments.

Psychometric validation studies: I collaborate with various scholars to validate psychological measures through the approaches of both Classical Test Theory (CCT) and Item Response Theory (TRI).

EDUCATION

Ph.D.: November 2011: European Ph.D. in Cognitive Plasticity and Rehabilitation (Cognitive Neuroscience), Sapienza University of Rome, Italy. Dissertation: "A gaze into politics: The role of ideology, personality and political group processing in shaping automatic social behaviours". Supervisor: Professor Salvatore Maria Aglioti. Final mark: Excellent.

MA: March 2008: Master of Arts in Semiotics, University of Bologna, full marks and honors (110/110, *cum laude*). Thesis: "Spinoza, the world as expression: Body and passions among philosophy, cognitive sciences, and semiotics". Supervisor: Federico Montanari (Political Discourse Analysis), Assistant Supervisor: Anna M. Borghi (Cognitive Psychology).

BA: February 2005: Bachelor of Arts in Communication Science, University of Roma Tre, full marks (110/110). Thesis: "The Paul Grice's Conversational Theory in the Computer-Mediated Communication". Supervisor: Roberto Pujia (Philosophy of Language).

POSITIONS HELD

October 2024 - now: Associate Professor in Psychometrics at the Department of Development Psychology and Socialization at the University of Padova.

December 2019 - October 2024: Associate Professor in Psychometrics at the Department of Medical and Surgical Sciences, "Magna Graecia" University of Catanzaro.

October 2023 - October 2024: Director of the Master Program on Cognitive Psychology and Neuroscience at "Magna Graecia University of Catanzaro".

November 2020 - December 2022: Head of the Committee for the Professional Internship Program for Psychologists at "Magna Graecia University of Catanzaro"

November 2020 - October 2024: Member of the Committee for the Professional Internship Program for Psychologists at "Magna Graecia University of Catanzaro"

December 2016 - December 2019: Assistant Professor (RTD-B) in Psychometrics at the Department of Medical and Surgical Sciences, "Magna Graecia" University of Catanzaro.

January 2016 - December 2016 Post-doctoral research fellow at the Department of Psychology of the University of Stockholm.

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January 2013 - December 2015: Postdoctoral research fellow at the Department of Psychology, Sapienza University of Rome, Italy.

December 2012 - December 2015: Affiliated with the Neuroimaging Lab directed by Dr. Emiliano Macaluso, IRCCS Santa Lucia Foundation, Rome, Italy.

May 2012 - July 2012: Visiting scholar at the Visual Perception, Neuroscience, and Cognition Lab directed by Professors Satoru Suzuki and Marcia Grabowecky, Department of Psychology, Northwestern University, Evanston, IL, USA.

January 2012 - December 2012: Postdoctoral research fellow at IRCCS Santa Lucia Foundation, Rome, Italy.

January 2011 - October 2011: Visiting Scholar at the Social Affective and Cultural Neuroscience Lab directed by Joan Chiao, Department of Psychology, Northwestern University, Evanston, IL, USA.

November 2008 - November 2011: Ph.D. student in Cognitive Plasticity and Rehabilitation, University of La Sapienza, Rome, Italy.

July 2008 – November 2008: Intern at the Institute of Cognitive Sciences and Technologies, Laboratory of Autonomous Robotics and Artificial Life (<http://laral.istc.cnr.it/>), Rome, Italy

May 2008 – November 2008: Research Assistant at the Embodied Cognition Lab (www.emco.unibo.it), Bologna, Italy.

TEACHING EXPERIENCE

A) LECTURING

October 2023 - present: Leader of the course on Data analysis in Psychology with 4 Lab credits (10 CFU), Master program in Cognitive Psychology and Neuroscience, "Magna Graecia" University of Catanzaro.

July 2022: Teacher at the Doctoral level course on Bayesian Inference. "Magna Graecia" University of Catanzaro, July 5th, 6th, 12th, and 13th.

June 2022: Teacher at the Doctoral level course on Introduction to Bayesian Modeling in R. "Sapienza" University of Rome, June 23rd-24th.

April 2022: Teacher at the 2nd level Master in "Deviance and Neuroscience: Dialogue Between Child Law and Psychosocial Disciplines. University of Calabria, April 1st.

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June 2021: Teacher in the Summer School “Bayesian Statistical Analysis for the Human, Social and Cognitive Sciences”, University of Verona, 31st of May - 5th of June.

May 2021: Measurement of the olfactory functionality and sexual correlates. 2nd level Master in Andrology, “Magna Graecia” University of Catanzaro.

November 2019 - now: Leader of the course on Theory and Techniques in Psychological Research with 4 Lab credits (10 CFU), Master program in Cognitive Psychology and Neuroscience, “Magna Graecia” University of Catanzaro.

April 2018 - now: Leader of the course on Research Methods in the Behavioral Sciences (8CFU), Bachelor program in Sciences and Techniques of Cognitive Psychology, “Magna Graecia” University of Catanzaro.

January 2017 - March 2019: Leader of the course on Psychometrics (8CFU), Bachelor program in Sciences and Techniques of Cognitive Psychology,, “Magna Graecia” University of Catanzaro.

June 2019: Teacher in the Summer School “Bayesian Statistical Analysis for the Human, Social and Cognitive Sciences”, University of Verona, 3rd - 7th of June.

May 2018: Teacher in the Doctoral Course “Bayesian Data Analysis and Multilevel Modeling”. Department of Psychology, Stockholm University.

May 2017: Teacher in the Doctoral Course “Bayesian Data Analysis and Multilevel Modeling”. Department of Psychology, Stockholm University.

November 2016: Leader of the course on Perception and Neuropsychology, Bachelor program in Psychology, Stockholm University

September 2016: Guest lecturer on *fMRI data analysis* for the course on theory and technique in Psychobiology, Master program in Psychology, Stockholm University.

January 2016: Guest lecturer on *Disgust* and on *Brain investigation techniques* for the Master program in Applied Neuroscience in Organizations, Professional Development Foundation in collaboration with the Middlesex University of London.

April 2016: Guest lecturer on *Emotions and cognition* for the course on Cognition, Bachelor program in Psychology, Stockholm University.

February 2015: Guest lecturer on Organizational Neuroscience, Master's program in Psychology of Organization and Work, Sapienza University of Rome.

March 2014 - March 2015: Guest lecturer on *Neural underpinnings of social categorization, stereotypes, and prejudice*, Bachelor program in Psychology, Sapienza University of Rome.

March 2014: Guest lecturer on *Emotions and decision making*, Bachelor program in Psychology, Unitelma telematic university of Rome.

B) SUPERVISING

2021 - now: Supervision of three Ph.D. Students of the program in Psychological Sciences, Magna Graecia University of Catanzaro.

2019 - now: Supervision of six Master's students of the program in Cognitive Psychology and Neuroscience, "Magna Graecia" University of Catanzaro.

2019 - now: Supervision of sixteen Bachelor students of the program in Sciences and Techniques of Cognitive Psychology, "Magna Graecia" University of Catanzaro.

2017 - 2022: co-supervision of two Ph.D. students at the Department of Psychology, Stockholm University.

2016 - 2017: Supervision of one Master's student and three Bachelor's students at the Department of Psychology, Stockholm University.

June 2015 – December 2016: Learning Advisor for the Master's Program in Neuroscience of Leadership, Professional Development Foundation, and Middlesex University, UK.

March 2012 – December 2016: Assessor for the Master's Program in Neuroscience of Leadership, Professional Development Foundation, and Middlesex University, UK.

November 2012 - 2016: Co-supervisor of Dr. Patrizia Chiesa (Ph.D.) and Adriano Acciarino (PhD) at Department of Psychology, Sapienza University of Rome.

September 2014: Co-supervisor of an undergraduate student (BA) at the Department of Psychology, Sapienza University of Rome.

C) EXAMINING

2018: External Examiner for the Ph.D. Course in Psychological Sciences, University of Padua (Italy).

GRANTS

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2023: I held research funds as a PI of the following project: “BISSCo, Behavioral Immune System and Social Conformity” (2022TN4ETY), PRIN-MUR.

2023: I held research funds as head of the local unit of the following project: “Weighting the ethnic prejudice: A new approach to an old problem” (PI, prof. Stefano Boca, P2022P8ER7), PRIN-PNRR-MUR.

2016: I held research funds as a PI of the following project: “The smell of prejudice: body odor disgust sensitivity and prejudice. An interdisciplinary approach.” (Diarienummer: 2016-02018), Vetenskapsrådet.

2015: I held research funds as a PI of the following project: “United Stereotypes of Europe: correlati neurali di stereotipi e decision making sociale tra gruppi europei” (prot. C26N15LKWR), Avvio alla Ricerca, Sapienza University of Rome, Italy.

2015: I passed the first step of the Scientific Independence of Young Researchers (SIR) programme selection. Mark: “excellent” (10.7% of the applicants). Title of the project: “FIDE: Five stars movement IDEology. Five Stars Movement, a post-ideological movement? Insights from social psychology, cognitive psychology and psychophysiology”

2013: I held research funds as a PI of the following project: “Neural correlates of the internalization of homophobia: The role of disgust and conformism” (prot. C26N139L7N), Avvio alla Ricerca, Sapienza University of Rome, Italy.

OTHER RESEARCH ACTIVITIES

Academic Editor

2021 - present: Associate Editor for *Collabra: Psychology*.

2020 - present: Associate Editor for *PeerJ*, section Brain and Cognition.

2019 - present: Associate Editor for *Frontiers in Psychology*, specialty in Theoretical and Philosophical Psychology.

Anonymous reviewer:

2023 - present: Anonymous Reviewer, *Humanities and social sciences communications*.

2022 - present: Anonymous Reviewer, *Food quality and preference*.

2021 - Present: Anonymous Reviewer, *PNAS*.

2020 - Present: Anonymous Reviewer, *Philosophical Transactions of the Royal Society B*.

2018 - Present: Anonymous Reviewer, *Nature Human Behaviour*.

2018 - Present: Methodological Reviewer for the *Psychological Science Accelerator*

2018: Grant Reviewer for the *University of Verona*

2018 - Present: Anonymous Reviewer, *Cognition and Emotion*.

2018 - Present: Anonymous Reviewer, *Frontiers in Psychology*.

2018 - Present: Anonymous Reviewer, *Psychological Research*.

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2018 - Present: Anonymous Reviewer, *Brain and Cognition*.

2018 - Present: Anonymous Reviewer, *Cognitive, Affective and Behavioural Neuroscience*.

2017 - Present: Anonymous Reviewer, *Chemical Senses*.

2017 - Present: Anonymous Reviewer, *Neuroimage*.

2016 - Present: Anonymous Reviewer, *Perception*.

2015 - Present: Anonymous Reviewer, *Cerebral Cortex*.

2015 - Present: Anonymous Reviewer, *iPerception*.

2014 - Present: Anonymous reviewer for the *National Science Centre* (Narodowe Centrum Nauki – NCN, Poland)

2013 - Present: Anonymous reviewer, *Scientific Reports*

2012 - Present: Anonymous reviewer, *Social Cognitive Affective Neuroscience*

2011 - Present: Anonymous reviewer, *PLoS One*

Other

2018 - Present: Member of the methodological committee of the *Psychological Science Accelerator*

AFFILIATION TO SCIENTIFIC SOCIETIES

2024 - Present: Human behavior and evolution society.

2023 - Present: Society for Open Inquiry in Behavioral Science

2023 - Present: Italian Reproducibility Network

2021 - Present: Society for the Improvement of Psychological Science (SIPS).

2016 - Present: European Association of Social Psychology (EASP)

2009 - Present: Associazione Italiana di Psicologia (AIP)

LANGUAGES

Italian: Native

English: Fluent

Spanish: Good

French: Basic

Swedish: Beginner

PUBLICATIONS

2024

Tolomeo, E., Masala, C., Aversa, A., Ottaviano, G., Gasperi, F., Menghi, L., ... & **Liuzza, M. T.** (2024). Psychometric validity of the sum score of the Sniffin'Sticks-Extended Test. *Chemical Senses*, bjae032.

de Filippis, R., Aloï, M., **Liuzza, M. T.**, Pugliese, V., Carbone, E. A., Rania, M., ... & De Fazio, P. (2024). Aberrant salience mediates the interplay between emotional abuse and positive symptoms in schizophrenia. *Comprehensive Psychiatry*, 133, 152496.

Aloï, M., Carcione, A., Lo Coco, G., Rania, M., Carbone, E. A., de Filippis, R., ... & **Liuzza, M. T.** (2024). Metacognition as a transdiagnostic factor across eating disorders: a latent profile analysis study. *Frontiers in Psychology*, 15, 1391715.

Liuzza, M. T., Zakrzewska, M. Z., & Olofsson, J. K. (2024). Italian validation of the body odor disgust scale. *Frontiers in Behavioral Neuroscience*, 18, 1389905.

Ciocca, G., Giorgini, R., Petrocchi, L., Origlia, G., Occhiuto, G., Aversa, A., & **Liuzza, M. T.** (2024). Psychometric Characteristics of the Italian Version of the Revised Sociosexual Orientation Inventory. *Archives of Sexual Behavior*, 1-17.

Andrighetto, G., Szekely, A., Guido, A., Gelfand, M., Abernathy, J., Arıkan, G., **Liuzza, M.T.**, ... & Eriksson, K. (2024). Changes in social norms during the early stages of the COVID-19 pandemic across 43 countries. *Nature Communications*, 15(1), 1436.

Bruno, F., Lau, C., Tagliaferro, C., Marunic, G., Quilty, L. C., **Liuzza, M. T.**, & Chiesi, F. (2024). Effects of cancer severity on the relationship between emotional intelligence, perceived social support, and psychological distress in Italian women. *Supportive Care in Cancer*, 32(2), 1-10.

Aloï, M., **Liuzza, M.T.**, Rania, M., Carbone, E. A., de Filippis, R., Gearhardt, A.N., Segura-Garcia, C., &. (2023). Using Latent Class Analysis to identify different clinical profiles ac-

ording to food addiction symptoms in obesity with and without binge eating disorder. *Journal of Behavioral Addictions*, 13(1), pp. 262–275.

Pullano, L., Foti, F., **Liuzza, M.T.**, Palermo, L. (2024). The role of place attachment and spatial anxiety in environmental knowledge. *Journal of Environmental Psychology*, 102229.

2023

Schepisi, M., **Liuzza, M.T.**, Frisanco, A., Giannini, A. M., Aglioti, S.M. Development and validation of the Attitudes towards Italian Mafias Scale (AIMS). *PeerJ* 11, e16120..

Aloi, M., Moniaci, M., Rania, M., Carbone, E. A., Martino, G., Segura-Garcia, C., & **Liuzza, M. T.** (2023). Relationship between disgust and Orthorexia Nervosa and psychometrics properties of the Italian Dusseldorf Orthorexia Scale in a general population sample. *Journal of Eating Disorders* (11) 11:174.

Iuliano, S., Zagari, M. C., Polara, G. F., Rotella, G., Vignera, S. L., Greco, E. A., ... **Liuzza, M.T.** & Aversa, A. (2023). Global olfactory function correlates with global sexual functioning in men and women. *Minerva medica*.

Zakrzewska, M., **Liuzza, M. T.**, & Olofsson, J. K. (2023). Body odor disgust sensitivity (BODS) is related to extreme odor valence perception. *Plos one*, 18(4), e0284397.

Zakrzewska, M., Liuzza, M. T., & Olofsson, J. K. (2023). Body odor disgust sensitivity (BODS) is related to extreme odor valence perception. *Plos one*, 18(4), e0284397.

Zakrzewska, M. Z., Challma, S., Lindholm, T., Cancino-Montecinos, S., Olofsson, J. K., & Liuzza, M. T. (2023). Body odour disgust sensitivity is associated with xenophobia: evidence from nine countries across five continents. *Royal Society Open Science*, 10(4), 221407.

De Filippis, R., Carbone, E. A., D'Angelo, M., **Liuzza, M. T.**, De Fazio, P., & Steardo Jr, L. (2023). The mediation role of impulsivity between childhood trauma and dissociative symptomatology in bipolar disorder. *Rivista di Psichiatria*, 58(2), 84-92.

Segura-Garcia, C., Aloi, M., Carbone, E. A., Staltari, F. A., Rania, M., Papaianni, M. C., ... & Liuzza, M. T. (2023). Development, Validation, and Measurement Invariance of the Body Image Bidimensional Assessment (BIBA) in Italian and Spanish Children and Early Adolescent Samples. *International Journal of Environmental Research and Public Health*, 20(4), 3626.

Raimo, S., Giorgini, R., Gaita, M., Costanzo, A., Spitaleri, D., Palermo, L., **Liuzza, M.T.** & Santangelo, G. (2023). Sensitivity of conventional cognitive tests in multiple sclerosis: Application of item response theory. *Multiple Sclerosis and Related Disorders*, 69, 104440.

2022

Iuliano, S., **Liuzza, M. T.**, Zagari, M. C., Vergine, M., Seminara, G., Vaccaro, M. G., ... & Aversa, A. (2022). Smells like good sex: olfactory function is associated with sexual well-being among fertile women. *The Journal of Sexual Medicine*, 19(11), S38.

Coles, N.A., March, D.S., Marmolejo-Ramos, F., ...Marozzi, M., **Liuzza, M.T.**
A multi-lab test of the facial feedback hypothesis by the Many Smiles Collaboration. *Nature Human Behaviour*.

Vaccaro, M.G., **Liuzza, M.T.***, Pastore, M., Nuria, P., Quattrone, A., Antonucci, G., Gambardella, A., Maestú, F. The validity and reliability of the Test of Memory Strategies among Italian healthy adults. *PeerJ*, 10, 14059. *shared co-authorship

Blomkvist, A., Izzo, G., Vaccaro, M. G., La Vignera, S., Brunetti, A., Aversa, A., & **Liuzza, M. T.** (2021). The scent of monogamy: self-reported olfactory function predicts sexual well-being and infidelity in an Italian population. *Archives of Sexual Behavior*, 51(6), pp. 2879–2889

Izzo, G., Puija, R., Vaccaro, M. G., Greco, F., Aversa, A., La Vignera, S., **Liuzza, M.T.***, & Emerenziani, G. P. *, (2020). The relation between sociosexual orientation, muscle performance and disgust sensitivity. A preliminary correlational study. *Minerva Endocrinology*, 47(2), pp. 140-149. *shared co-authorship.

Bago, B., Kovacs, M., Protzko, J., Nagy, T., Kekecs, Z., Palfi, B., ... **Liuzza, M.T.**, ... & Matibag, C. J. (2022). Situational factors shape moral judgements in the trolley dilemma in Eastern, Southern and Western countries in a culturally diverse sample. *Nature Human Behaviour*, 6(6), pp. 880–895.

Segura-Garcia, C., Aloï, M., Rania, M., de Filippis, R., Carbone, E. A., Taverna, S., **Liuzza, M.T.** & De Fazio, P. (2022). Development, validation and clinical use of the Eating Behaviors Assessment for Obesity (EBA-O). *Eating and Weight Disorders-Studies on Anorexia, Bulimia and Obesity*, 1-12.

Liuzza, M. T. (2022). The smell of prejudice. Disgust, sense of smell and social attitudes. An evolutionary perspective. *Lebenswelt. Aesthetics and philosophy of experience*.(17).

2021

Liuzza, M. T. (2021). Olfaction and Disgust: Sensory and Affective Processes to Avoid Disease. In *The Handbook of Disgust Research* (pp. 119-137). Springer, Cham.

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Liuzza, M. T., Spagnuolo, R., Antonucci, G., Grembiale, R. D., Cosco, C., Iaquina, F. S., ... & Doldo, P. (2021). Psychometric evaluation of an Italian custom 4-item short form of the PROMIS anxiety item bank in immune-mediated inflammatory diseases: an item response theory analysis. *PeerJ*, 9, e12100.

Syrjänen, E., Fischer, H., **Liuzza, M. T.**, Lindholm, T., & Olofsson, J. K. (2021). A Review of the Effects of Valenced Odors on Face Perception and Evaluation. *i-Perception*, 12(2), 20416695211009552.

Jones, B. C., DeBruine, L. M., Flake, J. K., **Liuzza, M. T.**, Antfolk, J., Arinze, N. C., Ndukaihe, I., Bloxson, N. G., Lewis, S. C., Foroni, F., Willis, M. L., Cubillas, C. P., Vadillo, M. A., Turiegano, E., Gilead, M., Simchon, A., Saribay, S. A., Owsley, N. C., Jang, C., Mburu, G., ... Coles, N. A. (2021). To which world regions does the valence-dominance model of social perception apply?. *Nature human behaviour*, 10.1038/s41562-020-01007-2. Advance online publication. <https://doi.org/10.1038/s41562-020-01007-2>

Villani, C., Lugli, L., **Liuzza, M. T.**, Nicoletti, R., & Borghi, A. M. Sensorimotor and interoceptive dimensions in concrete and abstract concepts. *Journal of Memory and Language*, 116, 104173.

2020

Parma, V., Ohla, K., Veldhuizen, M. G., Niv, M. Y., Kelly, C. E., Bakke, A. J., ... **Liuzza, M.T.**,... & Kaur, R. (2020). More than smell—COVID-19 is associated with severe impairment of smell, taste, and chemesthesis. *Chemical Senses*, 45(7), 609-622..

Cerasa, A., Fabbricatore, C., Ferraro, G., Pozzulo, R., Martino, I., & **Liuzza, M. T.** (2020). Work-Related Stress Among Chefs: A Predictive Model of Health Complaints. *Frontiers in Public Health*, 8.

Zakrzewska, M. Z.*, **Liuzza, M. T.***, Lindholm, T., Blomkvist, A., Larsson, M., & Olofsson, J. K. (2020). An Overprotective Nose? Implicit Bias Is Positively Related to Individual Differences in Body Odor Disgust Sensitivity. *Frontiers in Psychology*, 11, 301. *shared co-authorship.

Cucchi, A., **Liuzza, M. T.**, Saleem, Z. A., & Al Hemiary, N. J. (2020). A Study on the Effectiveness of Cognitive Behavioural Therapy for Obsessive Compulsive Behaviour in Iraq: Lessons for Cross-cultural Practice. *International Journal of Cognitive Therapy*, 1-15.

Landy, J., Jia, M., Ding, I., Viganola, D., Tierney, W., Dreber, A., ... **Liuzza, MT**,.....& Ly, A. (2019). Crowdsourcing hypothesis tests: Making transparent how design choices shape research results. *Psychological Bulletin*.

2019

Gjoneska, B., **Liuzza, M. T.**, Porciello, G., Caprara, G. V., & Aglioti, S. M. (2019). Bound to the group and blinded by the leader: ideological leader–follower dynamics in a trust economic game. *Royal Society Open Science*, 6(9), 182023. DOI: 10.1098/rsos.182023

Villani, C., Lugli, L., **Liuzza, M. T.**, & Borghi, A. M (2019). Varieties of abstract concepts and their multiple dimensions. *Language and Cognition*, 1-28.

Villani, C., Lugli, L., **Liuzza, M. T.**, & Borghi, A. M. (2019). Le sotto-categorie dei concetti astratti: uno studio empirico. *Sistemi intelligenti*, 31(2), 235-252.

Liuzza M.T., Macaluso E., Chiesa P.A., Lingiardi V., Aglioti S.M. (2019). An fMRI study on the neural correlates of social conformity to a sexual minority. *Scientific Reports*. DOI: 10.1038/s41598-019-40447-3.

Liuzza M.T., Olofsson J.K., Cancino-Montecinos S., Lindholm T. (2019). Body Odor Disgust Sensitivity Predicts Moral Harshness Toward Moral Violations of Purity. *Frontiers in Psychology*. DOI: 10.3389/fpsyg.2019.00458

Zakrzewska M., Olofsson J. K., Lindholm T., Blomkvist A., & **Liuzza M. T.** Body odor disgust sensitivity is associated with prejudice towards a fictive group of immigrants (2019). *Physiology & Behavior*. 121, p. 221-227, DOI: 10.1016/j.physbeh.2019.01.006.

Granqvist P., Vestbrant K., Döllinger L., **Liuzza M. T.** , Olsson M. J. , Blomkvist A., & Lundström, J. N. (2019). The scent of security: Odor of romantic partner alters subjective discomfort and autonomic stress responses in an adult attachment-dependent manner. *Physiology & behavior*, 198, p. 144-150, DOI: 10.1016/j.physbeh.2018.08.024.

2018

Liuzza M.T & Sirgiovanni E. Conservatives like conservative immigrants, but they would prefer not to live close to them (Pre-print available on PsyArXiv). DOI: 10.31234/osf.io/432zy

Lindholm T., Jönsson F. U. , & **Liuzza M. T.** . Retrieval effort cues predict eyewitness accuracy. *Journal of experimental psychology. Applied*. DOI: 10.1037/xap0000175. [Epub ahead of print]

Trafimow, D., Amrhein, V., Areshenkoff, C. N., Barrera-Causil, C. J., Beh, E. J., Bilgiç, Y. K., ..., **Liuzza M. T.**, ... & Chaigneau, S. E. (2018). Manipulating the Alpha Level Cannot Cure Significance Testing. *Frontiers in Psychology*, 9, 699.

Liuzza M. T. , Lindholm T., Hawley C. B. , Gustafsson-Sendén M., Ekström I., Olsson M. J. , Olofsson J. K. (2018). “Body odour disgust sensitivity predicts authoritarian attitudes”. *Royal Society Open Science*. 2018 Feb 1;5(2):171091. DOI: 10.1098/rsos.171091

2017

Ponsi G. Panasiti M. S. , Aglioti S. M. , **Liuzza M. T.** (2017). “Right-wing authoritarianism and stereotype-driven expectations interact in shaping intergroup trust ”. *PLoS ONE*. DOI: 10.1371/journal.pone.0190142.

Chiesa P. A. , **Liuzza M. T.**, Macaluso E., & Aglioti, S. M. (2017). Brain activity induced by implicit processing of others' pain and pleasure. *Human Brain Mapping*, 38, p. 5562-5576. DOI: 10.1002/hbm.23749

Syrjänen E., **Liuzza M. T.** , Fischer H. , & Olofsson J.K. (2017). Do Valenced Odors and Trait Body Odor Disgust Affect Evaluation of Emotion in Dynamic Faces?. *Perception*, 46, p. 1412-1426. DOI:10.1177/0301006617720831.

Liuzza M. T., Olofsson J. K. , Sabiniewicz A., Sorokowska A. “Body odor trait disgust sensitivity predicts perception of sweat bio-samples”(2017). *Chemical Senses*, 42(6), 479 - 485. DOI 10.1093/chemse/bjx026.

Liuzza M. T. , Lindholm T. , Hawley B. C. , Gustafsson-Sendèn M. , Ekström I., Olsson M. J., Larsson M., Olofsson J. K.. (2017). “The Body Odor Disgust Scale (BODS): Development and validation of a novel olfactory disgust assessment”. *Chemical Senses*, 42(6), 499 - 508. DOI 10.1093/chemse/bjx026. DOI 10.1093/chemse/bjw107.

2015

Porciello G., **Liuzza M. T.** , Minio-Paluello I. , Caprara G. V. , & Aglioti S. M. . (2015). “Fortunes and misfortunes of political leaders reflected in the eyes of their electors”. *Experimental brain research*, 234(3), 733-740. DOI: 10.1007/s00221-015-4496-1

Cazzato V., **Liuzza M. T.** , Macaluso E. , Caprara G. V. and Aglioti S. M. (2015). “The attracting power of the gaze of politicians is modulated by the personality and ideological attitude of their voters: a functional magnetic resonance imaging study”. *European Journal of Neuroscience*, DOI: 10.1111/ejn.13038

Chiesa P. A. , **Liuzza M. T.**, Acciarino A. and Aglioti S. M. (2015). "Subliminal Perception of Others' Physical Pain and Pleasure". *Experimental Brain Research*. 233(8), 2373-2382. DOI: 10.1007/s00221-015-4307-8

Liuzza M. T. , Candidi M. , Sforza A. L. and Aglioti S. M. (2015). "Harm avoiders suppress motor resonance to observed immoral actions". *Social Cognitive and Affective Neuroscience*, 10(1):72-7. DOI: 10.1093/scan/nsu025.

2014

Tidoni E., Grisoni L., **Liuzza M. T.** and Aglioti S. M. (2014). "Rubber hand illusion highlights massive visual capture and sensorimotor face-hand remapping in a tetraplegic man". *Restorative Neurology and Neuroscience*; 32(5):611-22. DOI: 10.3233/RNN-130385.

Porciello G., Crostella F., **Liuzza M. T.** , Valentini E. and Aglioti S. M. (2014). "rTMS-induced virtual lesion of the posterior parietal cortex (PPC) alters the control of reflexive shifts of social attention triggered by pointing hands". *Neuropsychologia*, 59:148-56. DOI: 10.1016/j.neuropsychologia.2014.04.017.

Holmes B. S. , Porciello G. , **Liuzza M. T.**, Crostella F., Aglioti S. M. and Bufalari I. (2014). "Interpersonal Multisensory Stimulation reduces the overwhelming distracting power of self-gaze: psychophysical evidence for 'engagement'". *Scientific Reports*, 4:6669. DOI: 10.1038/srep06669.

2013

Liuzza M. T. , Vecchione M., Dentale F., Crostella F., Barbaranelli C., Caprara G. V. and Aglioti S. M. (2013). "A look into the ballot box: gaze-following conveys information about implicit attitudes toward politicians". *Quarterly Journal of Experimental Psychology*, 66(2):209-16. DOI: 10.1080/17470218.2012.754909.

2012

Liuzza M. T., Candidi M. and Aglioti S. M. (2012). "Non Farlo! Negazione linguistica e simulazione delle azioni" ("Do not! Linguistic negation and action simulation"). *Rivista Italiana di Filosofia del linguaggio*, 5:127-13. DOI: 10.4396/20120310.

Liuzza M. T., Borghi A. M. and Cimatti F. (2012). "Linguistic Tools for Embodied Minds". *Rivista Italiana di Filosofia del linguaggio*, 6(2): 43-58. DOI: 10.4396/20120704.

2011

Liuzza M. T., Setti A. and Borghi A. M. (2011). "Kids observing other kids' hands: Visuomotor priming in children". *Consciousness and Cognition*, 21(1):383-92. DOI: 10.1016/j.concog.2011.09.015.

Liuzza M. T. , Cazzato V. , Vecchione M., Crostella F., Caprara G. V. and Aglioti S. M. (2011). "Follow My Eyes: The Gaze of Politicians Reflexively Captures the Gaze of Ingroup Voters". *PLoS ONE*, 6(9), e25117. DOI: 10.1371/journal.pone.0025117.

Liuzza M. T. and Aglioti S. M. (2011). "Neuroscienze in società: come lo studio del cervello sociale ci aiuta a capire chi siamo". ("Social and cultural neuroscience: at the intersection between brain and social sciences"). *Sistemi intelligenti, Cognizione e socialità*, a XXII(2):359-366. DOI: 10.1422/35362.

Liuzza M. T., Candidi M. and Aglioti S. M. (2011). "Do not resonate with actions! Reading action-related, negative polarity sentences modulates cortico-spinal facilitation". *PLoS ONE*. DOI: 10.1371/journal.pone.0016855.1.

2010

Liuzza M. T., Cimatti F. and Borghi A. M. (2010). *Lingue, corpo, pensiero: le ricerche contemporanee (Languages, Body, Thought: contemporary researches)*, Carocci editore, Roma.

Gaudiello I. , **Liuzza M. T.** and Caligiore D. (2010). "Prefrontal Cortex and action sequences: A review on neural computational models". In Serra R, Villani M and Poli I (Eds) *Artificial life and Evolutionary computation: Proceedings of WIVACE 2008*, World Scientific Publishing Co Pte Ltd, pp 121-130.

TALKS

2024

Liuzza, M.T., (invited) and Occhiuto, G.. Sex/gender differences in pathogen disgust and the nature. 20th Annual Conference of the Italian Association for Cognitive Sciences September 18-20, 2024 Rome, Italy

Marchesi, S., **Liuzza, M.T.**, Dalmaso, M. Cue Contaminati: il Ruolo del Sistema Immunitario Comportamentale nella Modulazione dell'Attenzione Condivisa. XXX Congress of the Italian Psychological Association - Experimental Section, Sept. 23-25, Noto, Italy.

Occhiuto, G. Tolomeo, E. **Liuzza, M.T.** Atteggiamenti ideologici, tratti di personalità e percezione della minaccia da COVID-19: uno studio correlazionale. XXX Congress of the Italian Psychological Association - Experimental Section, Sept. 23-25, Noto, Italy.

Tolomeo, E., Colacino, C., Occhiuto, G., **Liuzza, M.T.** Exploring the relationship between cognitive abilities and olfactory function in younger adults. XXX Congress of the Italian Psychological Association - Experimental Section, Sept. 23-25, Noto, Italy.

2023

Liuzza, M.T., (invited). Latent Variable Analysis in R: the marvels of lavaan. R Club at Monell University. Zoom, 3 novembre.

Liuzza, M.T., Tolomeo E., Masala C., Aversa A., Ottaviano G., Gasperi F., LMenghi L., Cecchini M.P., Parma V. **(invited)** Caratteristiche psicometriche della versione italiana dello Sniffin' Sticks Test (SST) Extended per la valutazione della funzionalità olfattiva: tau equivalenza e invarianza di misura/Psychometric characteristics of the Italian version of the Sniffin' Sticks Test (SST) Extended for olfactory function assessment: tau equivalence and measurement invariance. Congress of the Italian Psychology Association (AIP), Experimental section, Lucca (Italy), 18-20th September 2023

Liuzza, M.T. (invited) Power Analysis and Data Analysis in Cross-National Multi-Lab Studies: Lessons Learned from the Many Smiles Collaboration + Philosophy of Science Reflections. Psicostat. 26th of May, Padua.

Liuzza, M.T. (invited) "Measurement matters. Affrontare l'importanza della misurazione nella ricerca olfattiva" seminario del Master in intelligenza artificiale per le scienze umane. Federico II Napoli. 25th of May, Naples.

Liuzza, M.T. "Many Smiles" multi-lab study". Contributo orale all'interno della tavola rotonda su "Practices of Reproducibility: Multilab experiences", Italian Reproducibility network (ITRN) Annual Meeting, Rome, 24th February.

2022

Liuzza, M.T. (invited) "Body odor disgust sensitivity is associated with xenophobia in nine countries across five continents: A preregistered study". Symposium on "Clinical and Social Implications on Disgust Sensitivity". Congress of the Italian Psychology Association (AIP), United sections, Padova (Italy), 28-30th September 2022.

Liuzza, M.T. (invited) "Bayesian multilevel (generalized) linear models. An application to the study of abstract concepts". International workshop "Experimental designs for the study of abstract concepts in interaction" organized by the H2020 "Traincrease" Project, Roma (Italy), 25th May 2022.

Liuzza, M.T. (invited) "Measurement matters. An introduction to a Bayesian Item Response Theory approach to the study of abstract concepts." International workshop "Experimental designs for the study of abstract concepts in interaction" organized by the H2020 "TraincreaseProject, Roma (Italy), 24th May 2022.

2021

September: Liuzza, M.T. (invited). “Better measurement for better science. Reproducibility and validity in the chemosensory research”. Symposium on “Open Science: Building a reliable, transparent and trustworthy scientific approach in psychology and cognitive and social neuroscience”. XXVII Congress of the Italian Psychology Association (AIP), Experimental section, Lecce (Italy), 8-10th September 2021.

2020

September: Liuzza, M. T. (invited). “Measurement matters. Addressing the importance of measurement in olfactory research”. Symposium on “Doing it better: bringing reproducibility and open science to chemical senses research”. ECRO XXX - 2020, Virtual Online Meeting 17. - 18. September 2020

2019

September: Liuzza, M. T. (Invited). “L’uso dell’approccio Bayesiano nell’indagine della relazione tra la sensibilità al disgusto per gli odori corporei e atteggiamenti sociali” (“The use of a Bayesian approach in the investigation on the relationship between body odor disgust sensitivity and social attitudes”). Symposium on “The role of Bayesian statistics in the crisis of the replicability of results in psychology”. XXV Congress of the Italian Psychology Association (AIP), Experimental section, Milano (Italy), 8-10th September 2019.

April: Liuzza, M. T. (Invited). “Olfatto, disgusto ed evitamento delle malattie”. Il edizione di Catanzaro Anziani, Auditorium “Aldo Casalinuovo” Catanzaro, 12nd-13th April 2019.

March: Liuzza, M. T. (Invited). "L’odore del pregiudizio. Disgusto, olfatto e atteggiamenti sociali. Una prospettiva evoluzionistica". ENTSTIMMUNG: “Le pratiche del disgusto”, I appuntamento del ciclo STIMMUNGEN. Istituto Italiano di Studi Germanici. Roma 15th March 2019.

2018

July: Liuzza M. T. , Zakrzewska M. , Lindholm T., Blomkvist A., Olofsson, J. K.. The smell of prejudice: individual differences in body odor disgust sensitivity predict prejudice towards a fictive unfamiliar group. First Joint Congress of the SEPEX, SEPNECA and AIP experimental. Madrid, 3-6th July, 2018.

2016

September: Gordon A. R. , Granqvist P. , Vestbrant K., Dillinger L., Olsson M. J. , Liuzza M. T. & Lundström J. N.. Partner’s body odor lowers stress discomfort. Nordic Attachment Network Conference and Meeting. Stockholm, 22-23rd September, 2016.

2015

December: Liuzza M. T. , Lindholm, T., Gustafsson-Sendèn, M., Ekström, I., Olofsson, J. K.. “Body odor disgust sensitivity predicts authoritarian attitudes”. Political Psychology Conference, Amsterdam, 2 - 4th December, 2015.

2014

July: Liuzza M. T. , Cazzato V. , Macaluso E. , Caprara G. V. , Aglioti S. M.. “Social Dominance Orientation and Perceived Similarity modulate the attracting power of the gaze of politicians on their electors. An fMRI study.” International Society of Political Psychology (ISPP) 37th Annual Scientific Meeting - "Ideologies and Ideological Conflict: The Political Psychology of Belief Systems". Rome, 4th-7th July 2014

2012

September: Liuzza M. T. , Candidi M. and Sforza A. L. . “Società e morale nel sistema motorio: il ruolo delle differenze individuali” (Morality and society in the Motor system: the role of individual differences). Oral communication, XVII Congress of the Italian Psychology Association (AIP), Chieti (Italy), 20-23 September 2012.

2011

October: Liuzza M. T. . “Follow my eyes: Gaze-following behaviour as a possible tool for political psychology”. Social Area Brown Bag, Northwestern University, 14 October, Evanston, IL, USA.

September: Porciello G., Crostella F., Liuzza M. T., Valentini E. and Aglioti S. M.. “Attenzione riflessa indotta dall’ osservazione delle mani altrui e corteccia parietale posteriore Uno studio di rTMS” (Hand observation induced reflexive social attention and the parietal cortex, an rTMS study). Oral communication, XVII Congress of the Italian Psychology Association (AIP), Catania (Italy), 13-15 September.

2010

November: Liuzza M. T.. “Gaze following: The importance of society and culture in modulating a reflexive-like behaviour”. Cognitive Brain Mapping Group, 3 November.

September: Liuzza M. T., Vecchione M., Dentale F., Crostella F., Caprara G. V. and Aglioti, S. M.. “Attenzione sociale riflessa e atteggiamenti impliciti come possibili predittori dell’intenzione di voto: uno studio su movimenti saccadici e misure implicite” (“Reflexive social attention and implicit attitudes as predictor of vote intention: a saccadic movement and implicit measures study”). XVI congresso nazionale AIP, Bologna, Italy.

March: Liuzza M. T., Cazzato V., Vecchione M., Dentale F., Crostella F., Caprara G. V. and Aglioti S. M.. “Uno sguardo che cattura: attenzione sociale ed affiliazione politica” (“A catching gaze: social attention and political affiliation”). Brain Awareness Week, Rome, Italy.

2009

November: Liuzza M. T., Cazzato V., Vecchione M. and Crostella F.. “Uno sguardo che cattura: attenzione sociale ed affiliazione politica” (“A catching gaze: social attention and political affiliation”). Riunione della Società italiana di Neuropsicologia, Bologna, Italy.

2008

September: Gaudiello I., **Liuzza M. T.** and Caligiore D.. "Prefrontal Cortex and action Sequences: A review on neural computational models". WIVACE 2008, Italian Workshop on Artificial Life and Evolutionary Computation, Venezia, Italy.

POSTERS

2024:

May: Occhiuto G., **Liuzza M.T.** Sex differences in pathogen disgust do not seem to covary with patriarchal culture. 35th annual Human Behavior and Evolution Society Conference. 22-25 maggio, Aarhus, Denmark.

2023:

June: Liuzza, M.T., Tarsitano, M.G., Guarnotta, V. (2023). Prenatal androgen effects on sex/gender differences in disgust and sociosexuality. A preregistered study. Annual meeting of the Society for the Improvement of Psychological Science (SIPS), June 22-24th, Padua, Italy.

June: Tolomeo, E., **Liuzza, M.T.** Exposure to disgusting smells increases belief in conspiracy theories. A preregistered study. Annual meeting of the Society for the Improvement of Psychological Science (SIPS), June 22-24th, Padua, Italy.

2021:

September: Challma, S., Zakrzewska, M., Lindholm, T., Olofsson, J., **Liuzza, M. T.** Body odour disgust sensitivity is associated with xenophobia: Evidence from 10 countries during the COVID-19 pandemic. Poster presented at European Chemoreception Research Organization; 2021 Sep 12-16; Cascais, Portugal.

2019:

March: Liuzza M. T., Olofsson J. K., Cancino-Montecinos S., Lindholm T.. Body Odor Disgust Sensitivity Predicts Moral Harshness Toward Moral Violations of Purity. *International Convention of Psychological Science*. Paris, 6-9th March.

March: Lindholm T., Blomkvist A., Cancino-Montecinos S., **Liuzza M. T.**, Yzerbyt V. Y., Men's and Women's Self-Presentational Tactics Lead to Gender Biases in Manager Selection. *International Convention of Psychological Science*. Paris, 6-9th March.

2018:

April: Vaccaro M. G., Lopez G. Novellino F., Liuzza M. T.. The effect of the permanence in day-centers on adolescents' affective and behavioral problems. *8^{eme} Congrès Européen de Psychopathologie de l'enfant et de l'adolescent - AEPEA SEPYPNA*. Bilbao 26-29/04/2018.

2016:

May: **Liuzza M. T.**, Lindholm T., Hawley C.B., Sendén M. G., Ekström I., Larsson M., Olofsson J. K.. Body odor disgust sensitivity independently predicts authoritarian attitudes . 28th APS Annual Convention. Chicago, 26-29 May.

2015

April: **Liuzza M. T.**, Macaluso E., Chiesa P. A., Aglioti, S. M.. “Social conformity, disgust and homophobia: an fMRI study” Annual Meeting of the Social & Affective Neuroscience Society, Boston, 22-26 April, 2015.

2014

July: Ponsi, G., **Liuzza, M. T.**, Aglioti, S. M., Panasiti, M. S.. “United Stereotypes of Europe: economical decisions are shaped by nationalistic stereotypes”. In: International Society of Political Psychology (ISPP) 37th Annual Scientific Meeting - "Ideologies and Ideological Conflict: The Political Psychology of Belief Systems". Rome, 4th-7th July 2014

July: Porciello G., **Liuzza M. T.**, Crostella F., Caprara G. V., Aglioti S. M.. “The fall of political leaders reflected in gaze-following behavior of their voters”. In: International Society of Political Psychology (ISPP) 37th Annual Scientific Meeting - "Ideologies and Ideological Conflict: The Political Psychology of Belief Systems". Rome, 4th-7th July 2014

May: Chiesa, P. A. , **Liuzza M. T.** , Acciarino A., Aglioti S. M.. Subliminal perception of others' physical pain and pleasure . In: Association for Psychological Science. San Francisco, CA, USA, 22-25/05/2014

2012

May: **Liuzza M. T.**, Porciello G. , Crostella F. , Caprara G. V. and Aglioti S. M.. “Political popularity reflected in the eyes of the voters”. Poster presentation, 24th Annual Convention of the Association of Psychological Science (APS), Chicago, IL (USA), accepted, 24-27 May.

May: Holmes B., Porciello G., **Liuzza M. T.** , Crostella F., Aglioti S. M. and Bufalari I.. “Reflexive social attention and self-other distinction: psychophysical evidence for ‘engagement’”. Poster presentation, Concepts, Actions and Objects: Functional and Neural Perspectives (CAOs) 2012, Rovereto, (Italy), 24-27 May, 2012.

May: Porciello G. , Crostella F., **Liuzza M. T.**, Valentini E. and Aglioti S. M.. “The posterior parietal cortex mediates reflexive shifts of social attention triggered by hand-pointing: A rTMS study”. Poster presentation, Concepts, Actions and Objects: Functional and Neural Perspectives (CAOs) 2012, Rovereto, (Italy), 24-27 May, 2012.

2010

October: Liuzza M. T. , Vecchione M., Dentale F., Caprara G. V. and Aglioti S. M.. “Proneness to the gaze of politicians and implicit attitude predict voting intention”. 4th Annual Meeting of the Social & Affective Neuroscience Society, Chicago, 29-31 October, 2010.

October: Cazzato V., Macaluso E., **Liuzza M. T.**, Caprara G. V., and Aglioti S. M.. "Reflexive social attention modulated by political affiliation: An fMRI study". Nijmegen (NL), Workshop: The Embodied Mind: Perspectives and Limitations, 27-28 October, 2010.

June: Liuzza M. T., Candidi M., and Aglioti S. M.. “Linguistic negation is mapped in the cortico-spinal system”. Magstim/University of Oxford TMS Summer School, Oxford.

2009

September: Liuzza M.T., Candidi M. and Aglioti S.M.. “La negazione nel sistema corticospinale: uno studio di TMS” (“Linguistic negation within the cortico-spinal system: a TMS study”). XV congresso nazionale AIP, Chieti.

July: Burke K., Setti A., **Liuzza M.T.**, Borghi AM, and Newell FN. “Visuomotor resonance in older adults”. 10th International Multi-sensory Research Forum, New York.

THIRD MISSION

Public outreach

Interviews with international outlets

2011

Science: <https://www.science.org/doi/10.1126/science.334.6052.22-c>

2018

The Economist: <https://www.economist.com/news/science-and-technology/21737497-ancient-trait-creates-political-leanings>

The Independent: <https://www.independent.co.uk/news/science/donald-trump-supporters-bad-smells-reaction-sense-of-smell-disgusting-a8231616.html>

Science Daily: <https://www.sciencedaily.com/releases/2018/02/180227233253.htm>

Interviews with national outlets

2018

Marco Tullio Liuzza CV

Il Corriere della Sera: http://www.corriere.it/esteri/18_marzo_02/si-vota-anche-il-naso-l-ol-fatto-ha-ruolo-nostre-scelte-politiche-9e9b637c-1df2-11e8-af9a-2daa4c2d1bbb.shtml
Wired.it: <https://www.wired.it/attualita/politica/2018/03/03/scienza-leader-politico-perfetto/>
Galileo: <https://www.galileonet.it/2018/03/disgusto-verso-odori-corporei-da-indicazioni-sulle-tendenze-politiche/>
AIRI: <http://www.airicerca.org/blog/2018/04/03/avere-la-puzza-sotto-il-naso-predice-atteggiamenti-autoritari/>

2021

Calabria 7: <https://calabria7.it/nuova-scoperta-su-infedelta-e-sesso-da-una-ricerca-delluniversita-di-catanzaro/>

Catania Today: <https://www.cataniatoday.it/tag/infedelta/>

2022

Il Corriere della sera: https://www.corriere.it/scienze-ambiente/23_gennaio_04/sorridere-rende-felici-f3c27bdc-8c1b-11ed-b9c4-b1738d94d7f5.shtml?refresh_ce

Outreach activities aimed at the community

2022

- Alla scoperta del metodo scientifico/Discovering the scientific method. La razionale CICAP. October, 11th 2022, Trinken Haus, Catanzaro Lido.

Padua, October 4th 2024

Marco Tullio Liuzza

