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## **Present position**

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- 50% Full Professor in Cognitive Neuroscience (Professore Ordinario, SSD M-PSI/02), Area of Neuroscience, SISSA, Trieste (Italy).
- From Nov 2nd - 2022 - 50% Full Professor (Professore Ordinario, SSD M-PSI/02), Dipartimento di Medicina dei Sistemi, Università Roma - Tor Vergata, Roma, Italy, where I am the Coordinator of the undergraduate studies program 'Psicologia generale, dello sviluppo, del genere e del comportamento sociale'.
- This joint appointment is within the agreement between SISSA and Università Roma - Tor Vergata (art. 6 comma 11, LEGGE 30 dicembre 2010, n. 240).

## **Brief summary of my research interests**

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For many years I investigated language, memory, perception and action in healthy and in brain damaged individuals. My main findings were that the motor system is involved in many more higher-level cognitive processes than once thought. In recent years, I have been promoting a new research program with two main strands. The first aims at identifying the cognitive and non-cognitive factors that influence educational attainment in university students as well as their neurophysiological correlates with a particular focus on numeracy. The second strand concerns the role of cognitive reserve and its neural underpinnings in accounting for individual differences in individuals with either normal or pathological ageing, as well as in individuals affected by other neurological pathologies.

## **Education**

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### **1995**

Doctorate in Psychology, University of Bologna (Italy), with a thesis on the role of action knowledge in object recognition. The work towards the thesis was carried out for 4 years at the School of Psychology of Birmingham University (B'ham, U.K.), supervisors: Glyn Humphreys and Elisabetta Ladavas.

### **1990**

MS in Philosophy (curriculum in Psychology), University of Bologna (Italy), with a thesis of experimental psychology on memory for places (110 *summa cum laude*).

## **Previous positions held**

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Vice President of the Executive Board of the National Agency evaluating the Italian University System and Research (ANVUR) 23 Nov 2015 - 7 Jan 2020.

Full Professor from 20.12.2011, Area of Neuroscience, SISSA, Trieste.

Associate Professor (M-PSI/02) from 22.12.2003, Cognitive Neuroscience Sector (CNS), SISSA, Trieste.

Lecturer (M-PSI/02) from 15.07.1999, CNS, SISSA, Trieste.

Research stipend from 18.11.1998 al 14.07.1999, CNS, SISSA, Trieste.

Post-doctoral fellow (MURST) from 18.11.1996 al 17.11.1998, CNS, SISSA, Trieste.

Research fellow from 1.11.1995 to 31.03.1996 and from 05.1996 to 31.10.1996, CNS, SISSA, Trieste.

## **Fellowship awards and honors**

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### **2020-2022**

Research Senior Fellow of the Scuola Superiore di Studi Avanzati Sapienza (Ssas), La Sapienza, Roma (Italy).

### **2006**

*Women in Cognitive Science Mentorship Award.*

### **2003**

**Bessel Prize** awarded by the von Humboldt Foundation.

### **1996-1998**

Post-doctoral fellowship awarded by MURST, Italy.

### **1991-1995**

Four-year fellowship from the Ministry of University Scientific Research and Technology (MURST), Italy.

## **Recent research grants awarded**

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**PRIN – PNRR 2022** 'Resilience factors in the development of students from low-income families: building a sustainable roadmap for an inclusive growth', € 51.363 (Prof. Rumiati P.I. SISSA's Unit).

**PRIN 2022** 'Brain plasticity in ageing and pathology', € 98.855 (Prof. Rumiati National Coordinator and P.I. SISSA Unit).

**Age-It - Spoke 4:** € 265.834,38 (Prof. Rumiati, P.I. SISSA Unit).

**Aug. 2022-2024 Erasmus+ 'Effectiveness of Medicine E-learning Distance Courses'** (project code 2022-1-IT02-KA220-HED-000087665) € 35.988,00 (Prof. Rumiati, P.I. SISSA Unit).

**March 2022-Dec 2024 Long Covid.** Project funded by PRO3 Interscuole (MUR) € 135.000,00 (total funding) (Prof. Rumiati National Coordinator and P.I. SISSA Unit)

**Dec. 2021-2023 Erasmus+ 'TALENTI LATENTI Skills validation enables job placement on neurodiversity'** (Network and Proposal) (2021-1-IT02-KA220-ADU-000026989), € 232.769,00 (total funding) (Prof. Rumiati Project coordinator and P.I. SISSA Unit).

**2017-2018 INTERREG:** Network for the cognitive and motor of stroke patients (MEMORI-net), € 64.157 (Prof. Rumiati P.I SISSA Unit).

**2016-2019 WWTF (Vienna Science and Technology Fund: Home - WWTF)**

"Wanting" and "liking": The neurochemical and neurocognitive basis of primary and social reward in humans (Social reward), € 18.000. (Prof.

Rumiati P.I SISSA Unit).

**2014-16 Beneficentia (Liechtenstein Foundation):** "Neurocognitive rehabilitation of eating disorders", € 20.000.

**2014-17 Fondo Trieste (Ministry of the Interior):** "La prevenzione delle conseguenze dell'invecchiamento e il contributo delle neuroscienze cognitive", € 180.000 (Prof. Rumiati P.I.).

**2012-15 PRIN-MIUR** "I meccanismi neurocognitivi alla base delle interazioni sociali", € 80.000. (Prof. Rumiati P.I.).

**2011-2012 Regional Government of Lombardia-ISMEA:** "Foodcast", € 82.000. (Prof. Rumiati P.I.).

**2011-13 CARITRO (Italian foundation):** "Object Reaching, Grasping and Use in Brain Damaged Patients", € 80.000 (Prof. Rumiati P.I. SISSA Unit).

**2010-12 PRIN-MIUR** "Comunicazione come interazione tra azione e linguaggio", € 22.650 (Prof. Rumiati P.I. SISSA Unit).

### **Research collaborations**

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Austria Prof. Giorgia Silani, Wien University.

Germany Dr. Paola Mengotti & Prof. Gereon Fink, IME, Forschungszentrum, Jülich.

Israel Prof Naama Friedman, Tel Aviv University

Italy Prof. Paolo Manganotti, Prof. Maria Assunta Cova, Trieste University;  
Prof. Caterina Silveri, Università Cattolica del Sacro Cuore, Milano;  
Prof. Remo Job, Dr. Alessandro Grecucci, Trento University;  
Prof. Sara Mondini, Padua University; Dr Barbara Tomasino IRCCS 'E. Medea'; Prof. Alessia Tessari, Bologna University;  
Proff Stefano Cappa e Nicola Canessa (IUSS, Pavia).

U.K. Prof. Gianni De Fraja, Nottingham University.

U.S.A. Prof. Yakoov Stern, Columbia University. NY.

### **Skills**

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Languages.....

**Italian:** Native speaker

**English:** Fluent, both oral and written

**French:** Working knowledge, both oral and written

**German, Hebrew (Biblical and Ivrit):** Beginner

### **Membership to scientific societies**

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**2005-**

Member of the International Neuropsychological Symposium

**From 1998 till 2015 I intermittingly registered as a member of the following scientific societies**

Associazione Italiana di Psicologia  
Società Italiana di Neuroscienze  
Experimental Psychological Society  
Society for Cognitive Neuroscience  
Society for Neuroscience  
Psychonomics Society  
Società Italiana di Neuropsicologia

**Ad hoc reviewer for:**

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*Acta Psychologica, Brain, Brain & Cognition, Cerebral Cortex, Cognition, Cognitive Brain Research, Cognitive Neuropsychology, Cognitive Psychology, Brain, Cortex, Experimental Brain Research, Experimental Psychology, Human Brain Mapping, Journal of Cognitive Psychology, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: General, Journal of Cognitive Neuroscience, Journal of Neurophysiology, Journal of Neuroscience, Memory and Language, Neuroscience, Neurocase, Laterality, Neuropsychology, Neuropsychologia, NeuroImage, Perception and Psychophysics, Psychological Science, Social Cognitive Affective Neuroscience, Trends in Cognitive Science, Visual Cognition.*

I currently am on the editorial board of **Cognitive Neuropsychology** and **Minerva Psichiatrica**, and I have been an action editor of **Brain & Cognition, Cortex** and **Frontiers in Psychiatry**.

**Teaching experience**

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In Italy .....

**2022-2023**

"Psychobiology" 72 hours (9 ECTS) within the undergraduate program called 'Psicologia generale, dello sviluppo, del genere e del comportamento sociale' (L24), Università degli Studi di Roma 'Tor Vergata', Roma.

**2023-2024**

"Main topics in cognitive neuroscience" for the Ph.D. in Cognitive Neuroscience (SISSA).

**2020-2022**

"Intelligence and personality" for the Ph.D. in Neuroscience, now Ph.D. in Cognitive Neuroscience (SISSA).

**2000-2002**

"Neuropsychology of visual and motor systems", Faculty of Psychology, Univ. "Milano-Bicocca", Milan, Italy.

**1998-2004**

"Cognitive Neuropsychology", Degree in Physiotherapy, Faculty of Medicine, Udine, Italy.

**1995-2015**

"Cognitive Neuropsychology" for the Ph.D. in Cognitive Neuroscience (SISSA).

Abroad .....

**2023 (August 1-13)**

Research visit at Naama Friedmann's Laboratory for Research in Child Development and the Laboratory for Language and Brain. Tel Aviv University (Israel).

**2013**

Visiting professor, Department for Psychology, South China Normal University, P. R. China (2 weeks).

**1995**

Visiting professor Department of Psychology, Almeria University, Spain (2 weeks).

**1994-1995**

Teaching Assistantship in Cognitive Neuropsychology, School of Psychology, Birmingham University, U.K.

**Students' supervision**

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Ph.D. awarded .....

1. Elisabetta Pisanu, October 2023
2. Tiziano Suran, October 2019, data analyst.
3. Damiano Terenzi (co-supervised with Dr. M. Ajello) October 2019, postdoc at Potsdam University, Germany.
4. Nora Chen (co-supervised with Dr. Foroni) November 2018.
5. Sofia Osimo, November 2018, then postdoc at the University of Lausanne, Switzerland, now postdoc at Milano-Bicocca.
6. Miriam Vignando, May 2018, now research fellow at the Institute of Psychiatry, Psychology and Neuroscience, King's College London, UK.
7. Paolo Garlasco (co-supervised with Dr.V. Parma) Feb 2018.
8. Carol Coricelli, Jan 2018, now research fellow at London Ontario University (Canada).
9. Georgette Argiris (co-supervisor Prof. D. Crepaldi) Oct 2017, now research fellow in USA.
10. Luca Piretti, Jan 2017, now in residency at Univ of Padua, Italy.
11. Cinzia Cecchetto, Jan 2017, now postdoc at Padua University, Italy.
12. Luca De Simone, Nov 2015.
13. Jenny Baumeister (co-supervisor Dr. F. Foroni), March 2015. Now in Munich, Germany.
14. Alessandro Cicerale (co-supervisor prof. T. Flash, Weizmann, IL), March 2013, now research fellow at the University of Turin, Italy.
15. Paola Mengotti, Oct. 2012, now postdoc at the FSZ

in Jülich, Germany.

16. Gareth Bland, March 2012, now data scientist at MPI Frankfurt, Germany.
17. Claudia Civai, Nov 2011, after lecturer London South Bank University, UK. She was awarded the SISSA best thesis in neuroscience prize for 2011.
18. Liuba Papeo, Nov 2010, now *chargé de recherche* at CNRS, Lyon, France. Her thesis was awarded an AIP (Associazione Italiana di Psicologia), She was awarded the SISSA best thesis in neuroscience prize for 2010.
19. Joana Carmo, in 2010, now senior research fellow at the University of Lisbon, Portugal.
20. Alessandro Grecucci, in 2010, now associate professor at Trento University, Italy.
21. Gioia Negri, in 2008, then postdoc at La Sapienza University, Rome, Italy, now self-employed psychotherapist.
22. Corrado Corradi Dell'Acqua, Ph.D. in 2007, assistant professor at Genève University, CH.
23. Gorana Pobric, Ph.D. in 2006 cum laude, now lecturer at Manchester University, U.K.
24. Alberta Lunardelli, Ph.D. obtained in 2006 at Drexel University, Philadelphia, PA, USA, now clinical neuropsychologist at Azienda Ospedali Riuniti, Trieste, Italy.
25. Valerie Lesk, Ph.D. in 2005 cum laude, now lecturer at Bradford University, U.K.
26. Alessia Tessari, Ph.D. in 2004 cum laude, associate professor at Bologna University.
27. Barbara Tomasino, Ph.D. in 2004, now researcher IRRCs "E. Medea", Udine, Italy. Her thesis was awarded an AIP (Associazione Italiana di Psicologia) prize.

**MSc students .....**

**1997-2004**

University of Padua, University Milano-Bicocca Italy.

**1997-**

University of Trieste, Italy.

**2012**

Faculty of Cognitive Science, University of Trento, Italy.

Ngubia Kuria (SISSA) then obtained a Ph.D. in Gender studies at the Freie Universität, Berlin, Germany.

**External Ph.D. examiner**

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2021 Messina University, Padova University (Italy)

2020 Milano Bicocca University (Milano, IT), Padova University (Italy), Bologna University (IT), Catholic University (Milan, Italy), IUS (Pavia, Italy)

2018 Bradford University (Bradford, U.K.)

2017 'Institut Paul Bocuse' (Lyon, France) The University of Valparaiso (Valparaiso, Chile)

2016 Bradford University (Bradford, U.K.)

2015 Radboud University Nijmegen (The Netherlands), Bologna University (IT); San Raffaele University (Milan, IT).

2014 San Raffaele University (Milan, IT); University of Padua (IT).

2013 Louvain La Neuve University (Belgium).

2012 University of Udine (IT); University of Padua (IT).

2010 University of Trento (IT).

2011 Sapienza University, (Rome, IT).

2002 Plymouth University (U.K.).

## **Organizational Roles**

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### **Jan.-Sept. 2022**

Member of the scientific board of the 'Sustainability days', IDM-Provincia di Bolzano, Bolzano, Italy.

### **Jan. 2021-**

Member of Committee promoting European Higher Education Area initiatives in Italy delegated by the Minister (MUR).

### **2001-2004; 2013-Nov. 2015; Dec. 2020-July 2022**

Member of SISSA's Board of Governors.

### **2010-Nov. 2015; Jan. 2020-**

Chair of SISSA's Ethics Committee.

### **Jan. 2017-**

Member of the Scientific Advisory Board of the Vienna Doctoral School CoBeNe.

### **2012-Nov. 2015**

Coordinator of the PhD in Cognitive Neuroscience.

### **2010-Nov. 2015**

SISSA's Coordinator (with Prof. Treves) of the joint Master (=Laurea Magistrale) in Cognitive Neuroscience with the University of Trento.

### **2009-Nov. 2015**

Chair of the Regional fMRI consortium's scientific committee (SISSA, Azienda Ospedaliero-Universitaria Udine, La Nostra Famiglia).

### **2009-2012**

Member of the Società Italiana di Neuropsicologia's (SINP) steering committee.

**2007-**

Member of the European Workshop in Cognitive Neuropsychology's steering committee.

**2004**

Member of the advisory committee of the Institute of Medicine, FSZ, Jülich, Germany.

**2004-2007**

Coordinator of SISSA's Cognitive Neuroscience Sector and member of SISSA's Academic Senate.

**EVALUATION ACTIVITIES**

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**Jan. 2023-**

Member of the 'Nucleo di Valutazione' of Multiversity (UniPegaso, Mercatorum San Raffaele), Roma, Italy.

**July 2022-**

Member of the 'Nucleo di Valutazione' of the Scuola Superiore Sant'Anna, Pisa, Italy.

**Jan. 2020-**

Member of the ANVUR committee with the task of testing civics in higher education.

**Dec. 2017-2019**

Member of the Scientific Committee for the project 'Non-Cognitive Skills'. Dipartimento della Conoscenza, Provincia Autonoma di Trento, Italy.

**Jan. 2016-Jan. 2020**

Member appointed by ANVUR of the Scientific Technical Committee in charge of the Scientific Degrees Programme (Piano Lauree Scientifiche).

**Nov. 2015-Jan. 2020**

Vice President of the Executive Board of the National Agency in charge of evaluating the Italian University System and Research (ANVUR).

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**Ad hoc reviewer for institutions and granting agencies/bodies**

**Italy.....**

Trento University, Trieste University, Padova University, Italian Ministry of University and Research, Italian Multiple Sclerosis Society (FISM).

**Rest of the world.....**

Agence Nationale de la Recherche (France), Austrian Science Fund, AXA, British Academy, British Medical Research Council, Biotechnology and Biological Sciences Research Council, ERC, National Science Centre - Poland, SASPRO-Slovakia, Third World Organization For Women In Science, US-National Science Foundation, US-Israel Binational Science Foundation, Innovational Research Incentives Scheme-VICI.



## Organization of conferences, symposia and schools

1. Member of the scientific board of the 'Sustainability days', September 6-9<sup>th</sup> 2022, Provincia di Bolzano, Bolzano, Italy.
2. Workshop entitled "Perspectives on fMRI Imaging at ultrahigh field", organized with Umberto Castiello (University of Padua), SISSA, September 21<sup>st</sup> 2015.
3. "Semantic Processing and its Disorders", A workshop in honor of Prof. Shallice, SISSA, July 29<sup>th</sup>-30<sup>th</sup>, 2015.
4. Plenary session "Social Cognition: The Contribution of Neuropsychology" with Stefano Cappa at European Workshop on Cognitive Neuropsychology, Brixen, Italy, Jan 28<sup>th</sup>, 2015.
5. SCoNe Summer School SISSA, Trieste July 21<sup>st</sup>-August 1<sup>st</sup>, 2014.
6. Symposium entitled "Neuro-cognitive mechanisms of social interaction" at the International Neuropsychological Symposium, Lido di Camaiore, June 23<sup>rd</sup>-28<sup>th</sup>, 2014.
7. SCoNe Summer School SISSA, Trieste July 15<sup>th</sup>-28<sup>th</sup>, 2013.
8. Federation of European Societies of Neuropsychology, symposium entitled "The human others: a social neuroscience perspective" chaired with Claus Lamm, Basel, Switzerland, September 7<sup>th</sup>-9<sup>th</sup>, 2011.
9. Italian Neuropsychology Society (SINP), symposium entitled "New methods for the quantitative analysis of the cerebral lesions in neuropsychology", Bologna, Italy, May 7<sup>th</sup>, 2010.
10. Italian Society of Neuroscience (SIN), symposium entitled "A multimodal approach to neuroeconomics: The contribution of human cognitive neuroscience", Milan, Italy, October 2009.
11. More Geometrico, symposium entitled "Motor Cognition", SISSA, Trieste, Italy, October 2009.
12. "Borsellino College", ICTP, Trieste, Italy, September 2007 (co-organizer).
13. Symposium "Concepts and actions", European Workshop of Cognitive Neuropsychology, Bressanone, Italy, January 2007.
14. Symposium "Imitation of actions", European Workshop of Cognitive Neuropsychology, Bressanone, Italy, January 2003.
15. 4th Science of Aphasia Conference: Aphasia - Cross-disciplinary Aspects. Trieste, Italy, 22-27 August 2003.
16. Cognitive Neuroscience of Actions, Germany, (sponsored by Max Planck Institute for Psychological Research, München, Germany), February 2002 (co-organizer).
17. Symposium on "Action recognition and imitation", TENNET, Montreal, Canada, June 2001.
18. Conference "The Acting Brain", Trieste, Italy, September 2000 (co-organizer).

19. Symposium on "Cognitive Neuropsychology of Action", TENNET, Montreal, Canada, June 1998.

## **PUBLICATIONS**

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### Peer-reviewed articles.....

#### **2023**

1. Rioux, C., Wertz, A., **Rumiati, R.I.** & Coricelli, C. (2023). FEED your mind: The evolutionary roots of human food cognition (under review).
2. Terenzi, D. Silveti, M., Zoccolan, G., **Rumiati, R.I.** & Aiello, M. (2023). The impact of Subclinical Psychotic Symptoms on delay and effort discounting: Insights from behavioral, computational, and electrophysiological methods. (submitted).
3. Pisanu, E., Arbula, S. & **Rumiati, R.I.** (2023). Personality and sex differences in the perception of social interactions: an ERP and source imaging study (submitted).
4. Lunardon, M., Cerni, T. & **Rumiati, R.I.** (2023). Field of study and gender modulation of the effect of personality and math anxiety on numeracy. *Journal of Psychology* (submitted).
5. Piretti, L., Pappaianni, E., Garbin, C., **Rumiati, R.I.**, Job, R. & Grecucci, A. (2023). The neural signatures of shame, embarrassment and guilt: A voxel-based meta-analysis on functional neuroimaging studies. *Brain Sciences*. Mar 26;13(4):559. doi: 10.3390/brainsci13040559.
6. Tomasino, B. De Fraja, G., Guarracino, I., Ius, T., D'Agostini, S., Skrap, M., & **Rumiati, R.I.** (2023). Cognitive reserve and individual differences in brain tumor patients. *Brain Communications*, Jul 8;5(4):fcad198, doi: 10.1093/braincomms/fcad198.
7. Tomasino, B. Canderan, C., Bonivento, C. & **Rumiati, R.I.** (2023). Attention to the other's body sensations modulates the ventromedial prefrontal cortex. *SCAN*, Feb 23; 18(1):nsac043. doi: 10.1093/scan/nsac043.

#### **2022**

8. Chen, P.J., Coricelli, C., Sinem, K., **Rumiati, R.I.**, & Foroni, F. (2022). The role of associative learning in healthy and sustainable food evaluations: An event-related potential study. *Neuroscience Research*, 183, 61-75, doi: 10.1016/j.neures.2022.07.002.
9. Lunardon, M., Cerni, T. & **Rumiati, R.I.** (2022). Numeracy gender gap in STEM higher education: The role of neuroticism and math anxiety. *Frontiers in Psychology*, 26 May 2022 | <https://doi.org/10.3389/fpsyg.2022.856405>
10. Coricelli, C., Aiello, M. Lunardelli, A., Galli, G. & **Rumiati, R.I.** (2022). sFEra app: Description and usability of a novel tablet application for executive functions training. *Journal of Cognitive Enhancement*, 6, 389-401. doi: 10.1007/s41465-022-00245-8.

11. Coricelli, C., **Rumiati, R.I.** & Rioux, C. (2022). Implicit and explicit safety evaluation of foods: The importance of food processing. *Appetite*, 29;175:106062. doi: 10.1016/j.appet.2022.106062.
12. Piretti, L., Di Tella, S., Lo Monaco, M.R., Delle Donne, V., **Rumiati, R.I.** & Silveri, M.C. (2022). Impaired processing of conspecifics in Parkinson's disease, *Applied Neuropsychology*, 10,1-9, <https://doi.org/10.1080/23279095.2022.2074299>
13. Tessari, A., Proietti, R. & **Rumiati, R.I.** (2022). Bottom up and top down modulation of route selection in imitation. *Cognitive Neuropsychology*, 23,1-16. doi: 10.1080/02643294.2022.2043264.
14. Pisanu, E., Di Benedetto, A., Infurna, M.R., & **Rumiati, R.I.** (2022). Psychological impact in healthcare professionals during emergencies: the Italian experience with COVID-19. *Frontiers in Psychiatry*, 21 March 2022 | <https://doi.org/10.3389/fpsy.2022.818674>
15. Cecchetto, C., Pisanu, E., Schöpf, V., **Rumiati, R.I.** & Aiello, M. (2022). Food olfactory cues reactivity in individuals with obesity and the contribution of alexithymia. *Appetite*, Feb 1;169:105827, doi: 10.1016/j.appet.2021.105827.
16. Feroni, F., Esmaeilikia, M., & **Rumiati, R.I.** (2022). What makes a food healthy? Sex differences in what is associated to healthiness evaluations. *Food Quality and Preference*, 96, 104438, doi.org/10.1016/j.foodqual.2021.104438
17. Terenzi, D., Catalan, M., Polverino, P., Bertolotti, P., Manganotti, P., **Rumiati, R.I.** & Aiello, M. (2022). Effects of tDCS on reward responsiveness and valuation in impulse control disorders in Parkinson's patients with impulse control disorders. *Journal of Neurology*, 269, 1557-1565, Jul 31. doi: 10.1007/s00415-021-10733-0
18. Mondini, S., Pucci, V., Montemurro, S. & **Rumiati, R.I.** (2022). Protective factors for cognitive decline: Trajectories and changes in a longitudinal study with Italian elderly. *European Journal of Neurology*, 9(3):691-697, doi: 10.1111/ene.15183

## 2021

19. Piretti, L., Pappaianni, E., Gobbo, S., **Rumiati, R.I.**, Job, R., & Grecucci, A. (2021). Dissociating the role of dlPFC and dACC/dmPFC in emotional appraisal and mood regulation using cathodal tDCS. *Cognitive, Affective, and Behavioral Neuroscience*, doi.org/10.3758/s13415-021-00952-3
20. Cerni, T., Di Benedetto, A. & **Rumiati, R.I.** (2021). The contribution of personality and intelligence towards cognitive competences in higher education. *Frontiers in Psychology*, DOI: [10.3389/fpsyg.2021.621990](https://doi.org/10.3389/fpsyg.2021.621990)
21. Arbula, S., Pisanu, E., & **Rumiati R.I.** (2021). Representation of social content in dorsomedial prefrontal cortex underlies individual differences in agreeableness trait. *NeuroImage*. Apr 10:118049. doi: 10.1016/j.neuroimage.2021.118049.
22. Argiris, G., **Rumiati, R.I.**, & Crepaldi, D. (2021). No fruits without color: Cross-modal priming and EEG reveal different roles

for different features across semantic categories. *PLoS One*. 2021 Apr 14;16(4):e0234219. doi: 10.1371/journal.pone.0234219. eCollection 2021.PMID: 33852575

23. Lapomarda, G., Pappaianni E., Calcagni, A., Siugzdaite, R., Sanfey, A.G., **Rumiati, R.I.**, & Grecucci A. (2021). Out of control: An altered parieto-occipital-cerebellar network for impulsivity in bipolar disorder. *Behavioural Brain Research*. May 21;406:113228. doi: 10.1016/j.bbr.2021.113228
24. Tessari, A, Mengotti, P., Faccioli, L., Boscaro, S., Cipolli, C., Taricco, M. & **Rumiati, R.I.** (2021). Effect of meaning and body-part specificity in gesture imitation in left hemisphere stroke patients. *Neuropsychologia*, 151:107720. doi: 10.1016/j.neuropsychologia.2020.107720.
25. Osimo, S.A., Piretti, L., Ionta, S., **Rumiati, R.I.** & Aiello, M. (2021). The neural substrates of subliminal attentional bias and reduced inhibition in individuals with a higher BMI: a VBM and resting state connectivity study. *NeuroImage*, Apr 1;229:117725. doi: 10.1016/j.neuroimage.2021.117725.

## 2020

26. Piretti, L., Pappaianni E., Lunardelli, A., Zorzenon, I., Ukmar, M, Pesavento, M., **Rumiati, R.I.**, Job, R., & Grecucci, A. (2020). The role of amygdala in self-conscious emotions in a patient with acquired bilateral damage. *Frontiers in Neuroscience*, doi: 10.3389/fnins.2020.00677. eCollection 2020.PMID: 32733192
27. Aspé-Sánchez, M., Mengotti, P., **Rumiati, R.I.**, Rodriguez-Sickert, C., Ewer, J., & Billeke, P. (2021). Late frontal negativity discriminates outcomes and intentions in trust-repayment behavior. *Frontiers in Psychology*. Nov 25, 11:532295, doi: 10.3389/fpsyg.2020.532295. eCollection 2020
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  161. Shallice, T. **Rumiati, R.I.** & Zadini, A. (2000). The selective impairment of the phonological output buffer. *Cognitive Neuropsychology*, 17, 517-546.
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**Book chapters, proceedings and other publications.....**

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174. **Rumiati, R.I.** (2021). Genere ed etnia nello sviluppo della categorizzazione sociale. In S. Pasta & M. Santerini (Editors) *Nemmeno con un click. Ragazze e odio online*. Milano: Franco Angeli, pp. 51-57.
175. Carnaghi, A. & **Rumiati, R.I.** (2020). Le neuroscienze sociali. In L. Andrichetto & P. Riva (Editors). *Psicologia Sociale. Fondamenti teorici ed empirici*. Bologna: Il Mulino. pp. 359-371.
176. Foroni F. & **Rumiati, R.I.** (2017). Food Perception and Categorization: From Food/No-Food to Different Types of Food. In

Henri Cohen & Claire Lefebvre (Eds.) in *Handbook of Categorization in Cognitive Science*, 2<sup>nd</sup> edition (ISBN: 978-0-08-101107-2).

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178. **Rumiati, R.I.** & Foroni, F. (2015). Cibo per la mente: nutrizione e rappresentazione alimentare. In V.A. Sironi (a cura di) *Le Declinazioni del Cibo. Alimenti e salute, nutrizione e sostenibilità*. Laterza, Roma-Bari, pp. 147-151.
179. **Rumiati, R.I.** (2013). Apraxia. In *Encyclopedia of the Mind*. H. Pashler (Ed.) Sage.
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183. Tessari, A., Cretella, L., & **Rumiati, R.I.** (2009). Route switching in imitation: should I stay or should I go? In N. Taatgen & H. van Rijn (eds.). Proceedings of the 31st Annual Conference of the Cognitive Science Society, pp. 2475-2480. Amsterdam: Cognitive Science Society, Inc.
184. **Rumiati, R.I.** & Coyaud, S. (2008). Sex differences in violent behaviors. In: S. Badaloni, C.A. Drace, O. Gia, C. Levorato, & F. Vidotto (Eds.) *Under-representation of Women in Science and Technology*, Padova: Cluep.
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186. **Rumiati, R.I.** (2007). Aprassie. In G. Vallar & C. Papagno (Eds.) *Manuale di Neuropsicologia*, Bologna: Il Mulino. pp. 151-169.
187. Corradi-Dell'Acqua, C., & **Rumiati, R.I.** (2007). What the brain knows about the body: Evidence for dissociable representations. In F. Santoianni, & C. Sabatano (Eds.), *Brain Development in Learning Environments Embodied and Perceptual Advancements*. Cambridge: Cambridge Scholars Publishing. pp. 50-64.
188. **Rumiati, R.I.**, & Caramazza, A. (2005). The multiple functions of sensory-motor representations: an introduction. *Cognitive Neuropsychology*, 22, 259-61.
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190. Cacciari, C., **Rumiati, R.I.**, & Glucksberg, S. (1992). The role of word meanings, transparency and familiarity in the mental images of idioms. *Proceedings of IDIOMS*, ed. by M. Everaert, E. van der Linden, A. Schenk and R. Scheuder. Tilburg: ITK 1-9.

**Other scientific publications Italian.....**

191. **Rumiati, R.I.** (2020). Per una valutazione della didattica oltre i processi. *Giornale Italiano di Psicologia*, 3, 1015-1019.
192. Bacocco, B., Delli Zotti, F., Infurna, M.R., Pozzi, A., Sabella, M., & **Rumiati, R.I.** (2020). Medicina alla prova. La validazione del Progress Test a cura dell'ANVUR. *Medicina e Chirurgia*, 85, 3788-3796.
193. **Rumiati, R.I.**, Checchi, D., Ancaiani, A., Sabella, M., Infurna, M.R., & Di Benedetto, A. (2019). Il *Problem Solving* come competenza trasversale: Inquadramento e prospettive nell'ambito del progetto TECO. *Scuola Democratica*, 1, 239-257. doi: 10.12828/93404 , ISSN 1129-731X.
194. **Rumiati, R.I.**, Checchi, D., Ciolfi, D., Sabella, M, Di Benedetto, A., e Infurna, M.R. (2018). Le competenze degli studenti universitari: il progetto TECO. *Education 2.0* , 1, 239-257.
195. Carnaghi, A., Foroni, F., & **Rumiati, R.I.** (2012). Le categorie sociali e l'organizzazione lessicale-semantica delle conoscenze. *Reti, Saperi, Linguaggi*, 2, pp. 19-21.
196. Lunardelli, A., Negri, G.A.L., Sverzut, A. Gigli, G. & **Rumiati, R.I.** (2011). "So cos'è ma non so come usarlo": un caso di aprassia ideativa. *Giornale Italiano di Psicologia*, 3, 605-625.
197. **Rumiati, R.I.** (2010). *Donne e Uomini*. Bologna: Il Mulino (pp.1-128).
198. Tessari, A., Toraldo, A., Lunardelli, A., Zadini, A., & **Rumiati, R.I.** (2011). Prova standardizzata per la diagnosi del disturbo aprassico ideomotorio selettivo per tipo di gesto e tipo di effettore. *Ricerche di Psicologia*, 3, 311-339.
199. **Rumiati, R.I.** (2007). Imitazione. In F. Barale, M. Bertani, V. Gallese, S. Mistura, & A. Zamperini (Eds.), *Psiche: Dizionario storico di psicologia, psichiatria, psicoanalisi, neuroscienze*. Torino: Einaudi.
200. **Rumiati, R.I.** (1999). Il riconoscimento visivo di oggetti. *Giornale Italiano di Psicologia*, 2, 241-271.
201. **Rumiati, R.I.** (1992). Memoria di ambienti: uno studio sperimentale. *Giornale Italiano di Psicologia*, 4, 585-599.

## EDITED SPECIAL ISSUES

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**Rumiati, R.I.** & di Pellegrino, G. Cognitive neuroscience of food (2016) *Brain and Cognition*.

**Rumiati, R.I.** & Humphreys, G. (2015). Neurocognitive mechanisms of social interaction. *Cortex*.

Tomasino B. & **Rumiati, R.I.** (2014). What does neuropsychology say about the role of sensorimotor processes in conceptual knowledge and abstract concepts. *Frontiers in Human Neuroscience*.

**Rumiati, R.I.** & Caramazza, A. (2005). The Multiple Functions of Sensory-Motor Representations. *Cognitive Neuropsychology*, p. 240.

**Rumiati, R.I.** & Bekkering, H. (2003). Action Recognition and Imitation. *Brain and Cognition*.

## SCIENTIFIC TRANSLATING AND EDITING

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Supervision and editing of the second edition in Italian of Purves D., Brannon E.M., Cabeza R., Huettel S.A., La Bar K.S., Platt M.L. & Woldorff M.G. (2014). *Neuroscienze Cognitive*. Bologna: Zanichelli.

Translation of Levy N. (2007). *Neuroethics*. Cambridge, UK: Cambridge University Press; Milan: Apogeo.

Translation and editing of McShane, J. (1991). *Cognitive Development*, Oxford: Basil Blackwell, for Bologna: Società Editrice il Mulino.

Translation and editing of Miller, P.H. (1989). *Theories of developmental psychology*, Oxford: W.H. Freeman and Company (2<sup>nd</sup> edition), for Bologna: Società Editrice il Mulino.

## SELECTED SCIENTIFIC INVITED TALKS (from 2012 to 2023)

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1. 'Plasticità cerebrale, riserva cognitiva, invecchiamento' talk at the conference called 'Nuovi scenari, Nuove esigenze, Nuovi modelli', Rome, June 10<sup>th</sup>, 2022.
2. 'Neuropsicologia della percezione e della memoria del cibo' Dipartimento di Psicologia, Università Cattolica del Sacro Cuore, Milan, host prof Maria Caterina Silveri, June 7<sup>th</sup>, 2022.
3. 'Non sono portata per la matematica' (with Massimo Anelli, Licia Devalle, Maria Laura Di Tommaso, chaired by Tommaso De Luca) at the Festival Internazionale dell'Economia 'MERITO, DIVERSITÀ, GIUSTIZIA SOCIALE', Torino, May 31<sup>st</sup>, 2022.
4. 'Higher education and social inclusion' guest speaker for the Dies Academicus, Libera Università di Bolzano, May 27<sup>th</sup>, 2022.
5. 'Neurocognitive factors influencing inequalities in aging and brain damage' talk given at the workshop entitled Horizon Europe Seeds, held at the University of Bari, March 28<sup>th</sup>, 2022.
6. 'Neurocognitive factors influencing inequalities in aging and brain damage' talk given at the workshop entitled Horizon Europe

Seeds, held at the University of Bari, March 28<sup>th</sup>, 2022.

7. 'Neurocognitive factors influencing inequalities in aging and brain damage' talk given at the Scuola Superiore Sant'Anna, Pisa, March, 19<sup>th</sup>, 2022.
8. 'Cognitive e non cognitive factors affecting gender gap numeracy ', talk given at the Istituto Superiore di Sanità, Oct. 25<sup>th</sup>, 2021.
9. 'Psychological support to health workers during the Covid 19 pandemic in Italy', talk given within the webinar entitled "Neuroscience and ethics in the face of the pandemic: Lessons from Italy", at the 'International Neuroethics Society, Oct. 23<sup>rd</sup>, 2020.
10. 'Supporto psicologico agli operatori sanitari durante la pandemia Covid 19 in Italia' talk given within the Webinar Unesco entitled 'Covid-19: Mente e Cervello nella Tempesta Pandemica' IMT - Lucca, Nov. 23<sup>rd</sup>, 2020.
11. 'How Cognitive and non-Cognitive Skills contribute to Higher Education: A neuroscientific approach', talk given at the Meeting of the Associazione Nazionale Formatori entitled 'La Neuroformazione', XXXI Edition, Matera, Italy, Nov. 7-9<sup>th</sup>, 2019.
12. 'Riconoscimento visivo del cibo', talk given at the 1<sup>st</sup> Workshop entitled 'Mind in Mouth, CiMeC, Rovereto, University of Trento, Italy, Oct. 30-31<sup>st</sup>, 2019.
13. 'Cognitive and non-Cognitive Skills in Higher Education', talk given at the Meeting entitled 'Future of Neuroethics', XI Edition, Vita-Salute San Raffaele University, Milan, Italy. May 15-17<sup>th</sup>, 2019.
14. 'We are what we eat: Visual food recognition in humans' 19th World Congress of Psychophysiology, IMT Lucca, Italy, Sept. 5<sup>th</sup>, 2018.
15. 'Visual food recognition in humans', Dept of Psychology and Cognitive Science, Trento University, Trento, Italy, Dec. 2017.
16. 'Visual food recognition in humans", Genève University, Genève, Switzerland, Nov. 2017.
17. 'The cognitive neuroscience of food', talk given at the Workshop at the Neurosciencia de Chile, Chiloè, Chile, Oct. 2017.
18. 'How social groups are represented by in the brain' talk given at the Workshop entitled "Neuroscience goes social", held at the Università La Sapienza, Rome, May 26<sup>th</sup>, 2017.
19. 'How social groups are represented by in the brain' talk given at the Università Roma Tre, Rome, April 3<sup>rd</sup>, 2017.
20. 'How social groups are represented by in the brain' talk given at the symposium entitled "Novel approaches towards causal inference in social neuroscience", International Convention of Psychological Science, Vienna, Austria, March 25<sup>th</sup>, 2017.

21. 'The cognitive neuroscience of food', University of Valparaiso, Valparaiso, Chile, March 17<sup>th</sup>, 2017.
22. 'The neural representation of social groups', Centre de Investigación en Complejidad Social, Universidad del Desarrollo, Santiago, Chile, March 15<sup>th</sup>, 2017.
23. 'The cognitive neuroscience of food', Università di Pollenzo, Bra, Italia, March 9<sup>th</sup>, 2017.
24. 'The neural representation of social groups' keynote at the 1st annual meeting of the Vienna Doctoral School Annual CoBeNe, Josephinum, Wien, Austria, March 7<sup>th</sup>, 2017.
25. 'The cognitive neuroscience of food', Dept of Education, TAU, Tel Aviv, Israel, January 2<sup>nd</sup>, 2017.
26. 'Neurocognitive mechanisms involved in the Ultimatum game'. Department of Neuroscience Bari University, June 30<sup>th</sup>, 2016.
27. 'Cervello e cibo nei centenari', talk presented at "Cento e più ... al Savoia", Trieste, November 4<sup>th</sup>, 2015.
28. 'Embodied & disembodied cognition', discussant of Simone Schnall's talk entitled 'How the body shapes the mind: Unconscious influences on perception', at the 'Social Change in the Brain Age', School of Advanced Studies, Pavia, September 10<sup>th</sup>, 2015.
29. 'Cibo per la mente' at 'Cervelli a Mente-Nutrire il Cervello', Settimana del Cervello, Università degli Studi di Milano, Milan, March 18<sup>th</sup>, 2015.
30. 'The Concepts of Social Groups: Neuropsychological Evidence', NYU, NY Nov. 11<sup>th</sup>, 2014.
31. 'Cibo e Cervello' at the meeting 'Cibo e Cervello: Alimenti, Gusto e Neuroni', Ordine dei medici of Vercelli, Vercelli, Italy October 18<sup>th</sup>, 2014.
32. 'Food for thoughts', Institute of Neuroscience, CNR, Pisa, September 8<sup>th</sup>, 2014.
33. 'Donne e scienza' at "La Science en Rose"- Padova, May 30<sup>th</sup>, 2014.
34. 'Neuroscienze del cibo' at "CIBO e CERVELLO: Neurogastronomia tra piaceri alimentari e disordini dietetici", Monza, May 24<sup>th</sup>, 2014.
35. 'Social concepts have a representation of their own' at the Convegno di Neuroetica, Padova, May 14<sup>th</sup>-16<sup>th</sup>, 2014.
36. 'Neuroscienze del cibo' at *Brain in Italy* (Brain Awareness Week), Teatro Parenti, Milan, March 15<sup>th</sup>-16<sup>th</sup>, 2014.
37. 'Esiste un cervello femminile?' at "Il tempo delle donne" organized by Corriere della Sera, Teatro Parenti, Milan, March 13<sup>th</sup>, 2014.
38. 'Possiamo parlare di cervello femminile?' Museo delle Scienze Naturali, Milano January 29<sup>th</sup>, 2014.
39. 'Action all over' talk given at CAOS-Concepts, Actions and

Objects, Rovereto, May 23<sup>rd</sup>-26<sup>th</sup>, 2013.

40. 'Where do language and action meet? In our imagination' talk given at the Institute of Psychological Sciences, University of Louvain-La-Neuve, Louvain-La-Neuve, Belgium, April 18<sup>th</sup>, 2013.
41. 'How social groups are represented in the brain? Clues from neuropsychology' talk given at the Symposium on Social Development organized by Claus Lamm at TeaP Conference, Vienna University, Vienna, Austria, March 25<sup>th</sup>-28<sup>th</sup>, 2013.
42. 'Deconstructing Apraxia', talk given at the Symposium on Behavioural Neurology Lucerne - Current topics in apraxia organized by Georg Goldenberg and Stephan Bohlhalter, Luzerner Kantonsspital, Neurology and Neurorehabilitation Center, Lucerne, Switzerland, March 27<sup>th</sup>-28<sup>th</sup>, 2013.
43. 'Where do language and action meet? In our imagination' talk given at the Speech and Hearing Division, University of Hong Kong, Hong Kong, January 4<sup>th</sup>, 2013.

#### **SELECTED INVITED TALKS ON EVALUATION (from 2015 to 2020)**

1. 'Il ruolo dell'Università come enhancement cognitivo e culturale', talk given at The POT 6 - COBASCO (Competenze di Base Comuni) - Lettere, Padua University, Italy, February 17<sup>th</sup>, 2020.
2. 'How is research quality assessed in Europe? Implications and suggestions for you and your cv'. Talk given at The Cognitive Science Arena, Brixen, Italy, February 7<sup>th</sup>-8<sup>th</sup>, 2020.
3. 'Alcune riflessioni su formazione post-laurea e lavoro', talk given at the 'La ricerca al lavoro': la terza missione e terzo, Padua University, May 20<sup>th</sup>, 2019.
4. 'Competences as a tool for democracy', talk presented at the meeting entitled 'Global Forum for Higher Education and Scientific Research: Present and Future', Il Cairo, Egypt, April 6<sup>th</sup>, 2019.
5. Round table at a meeting organized by CISIA on 'Orientamento e accesso all'Università' at "Federico II University", Naples, Italy, Oct. 28<sup>th</sup>, 2017.
6. Round table entitled 'Valutazione degli apprendimenti' at the Meeting on Didattica e Docimologia di Mario Gattullo, Bologna, Italy October 31<sup>st</sup>, 2017.
7. "Il progetto TECON e la sfida delle competenze trasversali," talk presented at the meeting "Transformative Learning. L'innovazione didattica e organizzativa nell'università", Arezzo Campus della Piona, November 22<sup>nd</sup>-23<sup>rd</sup>, 2016.
8. Round Table entitled "Valorizzazione della ricerca", Annual AIP meeting. CNR, Roma, Italy, September 19<sup>th</sup>, 2016.
9. 'L'accREDITamento dei corsi di dottorato'. Padua University, June 15<sup>th</sup>, 2016.
10. 'L'accREDITamento dei corsi di dottorato: Verso il XXII ciclo', IMT, Lucca, Italy, February 25<sup>th</sup>, 2016.

## VISITS

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- 2008 Visiting scientist, Weizmann Institute, Rehovot, Israel, 4 weeks, May.  
Visiting scientist, Institute for Psychology, RWTH Aachen University, Germany (4 weeks).
- 2005 Visiting scientist, Brain Science Institute, Riken, Saitama, Japan (6 weeks).
- 03/-04 Visiting scientist, IME Forschungszentrum, Jülich, Germany, Bessel Award (1 year).
- 2002 Visiting scientist, IME Forschungszentrum, Jülich, Germany, June-July.
- 2002 Visiting scientist, Max Planck Institute for Psychological Research, München, Germany (4 weeks).
- 2001 Visiting scientist, IME Forschungszentrum, Jülich, Germany (2 weeks).
- 1999 Research period at the Institute of Cognitive Neuroscience, University College, London, U.K. (2 weeks).
- 97/-98 Clinical training at the Department of Neuropsychology of the National Hospital for Nervous Diseases in London, U.K. (2 weeks).
- 1995 Visiting professor Department of Psychology, Almeria University, Spain (2 weeks).

## SCIENCE DISSEMINATION

### Articles in Italian newspapers and magazines.....

202. **Rumiati, R.I.** Donne premiate con il Nobel. Uno stimolo per ragazze ancora frenate nella ricerca.  
<https://www.avvenire.it/opinioni/pagine/donne-premiate-con-il-nobel-uno-stimolo-per-ragazze-ancora-frenate-nella> (4.10.2023).
203. Miccoli, P. & **Rumiati, R.I.** Recovery Fund a sostegno di Ricerca e Istruzione: la valutazione sia strumento centrale per attribuire le risorse. *Il Sole 24 Ore*. (16.02.2021).
204. Iacovelli, G. & **Rumiati, R.I.** Anche nelle università italiane la Dad è qui per restare  
<https://www.lavoce.info/archives/71667/anche-nelle-universita-italiane-la-dad-e-qui-per-restare/> (11.01.2021).
205. **Rumiati, R.I.** C'è un futuro per la didattica a distanza  
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