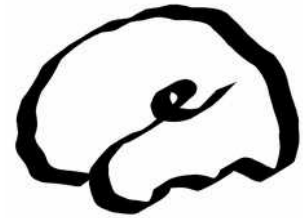


Curriculum Vitae



Personal information

- First name & last name* • Marco Tettamanti
- Academic degree* • PhD, Associate Professor
- Date of birth* • 30.10.1972
- Place of birth* • Bellinzona, Switzerland
- Nationality* • Swiss
- Civil status* • Married, 2 children

Current position • Associate Professor

- Department* • CIMeC - Center for Mind/Brain Sciences
- Institution* • University of Trento
- Address* • Via delle Regole 101, I-38123 Mattarello (TN), Italy
- Telephone* • +39-02-0461-283077
- Email* • marco.tettamanti-1@unitn.it
- Skype name* • mtettamanti
- Website* • <https://webapps.unitn.it/du/en/Persona/PER0212161/Curriculum>
- ORCID* • <http://orcid.org/0000-0003-3039-1500>
- Researcher ID* • K-1510-2016

Language portfolio

- Mother tongue* • Italian

Other languages

Self-assessment (European level)*

<i>English</i>
<i>French</i>
<i>German</i>
<i>Spanish</i>
<i>Portuguese</i>

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient	C2	Proficient	C1	Proficient	C2	Proficient	C2	Proficient
C2	Proficient	C2	Proficient	C1	Proficient	C2	Proficient	C2	Proficient
C2	Proficient	C2	Proficient	C1	Proficient	C1	Proficient	C2	Proficient
B1	Independent	B1	Independent	A2	Basic	A2	Basic	A2	Basic
A2	Basic	A2	Basic	A1	Basic	A1	Basic	A1	Basic

*Common European Framework of Reference (CEF) level

Education

- PhD* • 2000-2003: Ph.D. Neuroscience Program of the Neuroscience Center of the University of Zurich, Switzerland.
 - Thesis: “Language Acquisition and Processing – Hierarchically Organized Cognitive Processes”. Internal supervisors: Prof. Rüdiger Wehner, Dr. Dorothea Weniger, Prof. Spyros Kollias, and Prof. Peter Brugger. External supervisor: Prof. Stanislas Dehaene (Inserm, Paris, France).
 - Degree (2004, February 10): PhD (Dr. sc. nat.), Natural Sciences Faculty, University of Zurich.
- M.Sc.* • Courses (1991-1996): Molecular biology (“Biologie II”), Biozentrum of the University of Basel, Switzerland. The curriculum included intensive theoretical and practical courses in biophysics, biochemistry, microbiology and cell-biology.

- Thesis (1994-1995): "Development of the Mushroom Bodies of *Drosophila melanogaster*". Supervisors: Prof. Heinrich Reichert (Zoologisches Institut, University of Basel), Prof. John. G. Nicholls (Biozentrum).
- Degree (1996, April): M.Sc. in "Biologie II", with specialization in Neurobiology and mention *cum laude* (Final mark: 5.1/6).

Habilitations

Full Professor level

- 2017, April 10: "Abilitazione Scientifica Nazionale come Professore di I fascia nel settore concorsuale 11/E1", corresponding to the Full Professor level. The habilitation has validity until 2023, April 10.

Associate Professor level

- 2014, February 25: "Abilitazione Scientifica Nazionale come Professore di II fascia nel settore concorsuale 11/E1", corresponding to the Associate Professor level.

Research and academic positions

2018-present

- Associate Professor in Psychobiology and Psychophysiology, CIMeC - Center for Mind/Brain Sciences, University of Trento, Italy.

2006-2018

- Tenured full-time IRCCS research fellow, San Raffaele Scientific Institute.

2003-2006

- Tenure-track full-time IRCCS research fellow, San Raffaele Scientific Institute.

2000-2003

- Research fellow (borsista), San Raffaele Scientific Institute, laboratory of Prof. Stefano F. Cappa and Prof. Daniela Perani.

1997-2000

- Training and Mobility of Researchers (EU-FP4) Grant Fellow, San Raffaele Scientific Institute, Milan, Italy.

Teaching

2019-present

- Professor, M.Sc. Course in Cognitive Science, CIMeC, University of Trento, Italy, Courses in "Psycholinguistics [42h/6ECTS]", "Advanced Topics in Memory [42h/6ECTS]".

2019-present

- Professor, M.Sc. Course in Data Science, CIMeC, University of Trento, Italy, Course in "Neuroimaging for Data Science [22h/3ECTS]".

2001-2002, 2012-2017

- Contract Professor, Degree Programme in Physiotherapy, Medicine Faculty, Vita-Salute San Raffaele University, Milano, Italy. Course modules in "Neurophysiology of cognitive processes (2001-2002)" and "Neurolinguistics (2012-2017)".

2005-2015

- Contract Professor, Faculty of Psychology, Vita-Salute San Raffaele University, Milano, Italy. Courses in "Cognitive Neuropsychology (2005-2006)", "Neurobiology of Memory (2006-2010)". Course modules in "Experimental Psychology: Neuroimaging (2011-2013)", "Exp. Psychol. Neuroim.: Exercises (2013-2015)", "Neurobiology of Language: Exercises (2009-2010)", "Neurobiology of Language: Exercises (2013-2015)".

2004-2018

- Teaching assistant ("cultore della materia") and examiner, Faculty of Psychology, Vita-Salute San Raffaele University, Milano, Italy. Courses in "Psychophysiology", "Neuroscience", "Cognitive Neuroscience".

2007, October 9,10,11 and

- Visiting Lecturer at the M.Sc. in Human Cognitive

- 2009, February 23,24
2011-present
- 2016, September 1
- 2015, March 30
- Neuropsychology, Edinburgh University, U.K.
 - Visiting Lecturer at the M.Sc. in Clinical Neurosciences. Catholic University of Milan & Brescia, Italy.
 - Lecturer at Federation European Societies Neuropsychology's summer school, Berlin, September 1, 2016.
 - Visiting Lecturer at the B.Sc. in Psychology: course of instrumental methods, University Milano Bicocca, Italy.

Student supervision

- Current supervisions: 1 post-doctoral student, 2 PhD students, 2 M.Sc. students, 0 B.Sc. students, and 2 internship fellows.
- Past supervisions: 1 post-doctoral student, 3 PhD students, 22 M.Sc. students, 11 B.Sc. students, and 10 internship fellows.

List of past students:

- Birgit Keisker, post-doctoral student (2009)
- Matilde Taddei, PhD student (2010-2013) ([website](#))
- Francesca Forlè, PhD student (2012-2015)
- Naima Rùther, visiting PhD student (2013)
- Irene Rotondi, M.Sc. student (2006), B.Sc. student (2004)
- Marilyn Lo Stimolo, M.Sc. student (2008)
- Marta Ghio, M.Sc. student (2009) ([website](#))
- Eleonora Bartoli, M.Sc. student (2009), B.Sc. student (2007) ([website](#))
- Alessandro Gerardi, M.Sc. student (2009)
- Elisa Marchetta, M.Sc. student (2009) ([website](#))
- Riccardo Cafiero, M.Sc. student (2010)
- Krizia Maggioni, M.Sc. student (2011), B.Sc. student (2008)
- Matilde Vaghi, M.Sc. student (2012), B.Sc. student (2010) ([website](#))
- Danilo Rubicondo, M.Sc. student (2013)
- Alice Martinelli, M.Sc. student (2015) ([website](#))
- Arianna Sala, M.Sc. student (2015) ([website](#))
- Francesco Caprini, M.Sc. student (2015) ([website](#))
- Francesca Conca, M.Sc. student (2016) ([website](#))
- Philipp Silbernagl, M.Sc. student (2017) ([website](#))
- Riccardo Verni, M.Sc. student (2017)
- Lisa Wright, M.Sc. student (2017), internship fellow (2013)
- Cristina Cara, M.Sc. student (2018)
- Federico Calesella, M.Sc. student (2019)
- Dhyana Menon, M.Sc. student (2019)
- Maria Chiara De Pasquale, M.Sc. student (2019)
- Ruggero Bettinardi, B.Sc. student (2009) ([website](#))
- Armanda Caporizzo, B.Sc. student (2009)
- Paolo Farronato, B.Sc. student (2010)
- Matteo Locatelli, B.Sc. student (2011)
- Clara Salmoiraghi, B.Sc. student (2012)
- Elisa Zanetti, B.Sc. student (2013)
- Federica Colombo, B.Sc. student (2018)
- Hellen Mathei Della Justina, internship fellow (2006)
- Giacomo Novembre, internship fellow (2007) ([website](#))
- Marta Florio, internship fellow (2007) ([website](#))
- Laura Verga, internship fellow (2010) ([website](#))
- Chiara Banfi, internship fellow (2014) ([website](#))
- Laura Muzzarelli, internship fellow (2015-2016) ([website](#))
- Anna Santini, internship fellow (2019)

- Giacomo Tomezzoli, internship fellow (2019)
- Barbara Cassone, internship fellow (2019-2020)
- Alice Guerrini, internship fellow (2019-2020)
- Toni Polonjio, Erasmus internship fellow (2019-2020)

Institutional responsibilities

- 2019-present: Faculty member of the Doctoral Program in Cognitive and Brain Sciences, CIMeC, University of Trento, Italy.
- 2019: Vice-coordinator and committee member of the Doctoral Program in Cognitive and Brain Sciences, CIMeC, University of Trento, Italy.
- 2016-2019: Faculty member of the Specialization School in Neuropsychology, Vita-Salute San Raffaele University, Milan, Italy.
- 2010-2018: Faculty member of the PhD Programme in Cognitive Neuroscience and Philosophy of the Mind, IUSS, Pavia, Italy.
- 2017: Committee Member for 1 Habilitation Thesis, University of Poitiers, France.
- 2015-2016: Committee Member for 1 PhD student, International School for Advanced Studies (SISSA), Trieste, Italy.
- 2010-2013: External supervisor of a PhD student in Linguistics & Neurolinguistics, Scuola Normale Superiore, Pisa, Italy.
- 2005-2010: Assistant tutor for the students in the Cognitive Neuroscience Program at the Psychology Faculty, Vita-Salute San Raffaele University, Milan, Italy.

Commissions of trust

- 2019: Scientific evaluator, Swiss National Science Foundation (SNSF).
- 2019: Scientific evaluator, French National Research Agency (ANR).
- 2016: Scientific evaluator, International School for Advanced Studies (SISSA), Trieste, Italy.
- 2016: Scientific evaluator, Israel Science Foundation (ISF), Israel.
- 2015: Scientific evaluator, German Research Foundation (DFG), Germany.
- 2015: Scientific evaluator, German Academic Exchange Service (DAAD), Germany.
- 2012: Scientific evaluator, Best PhD Thesis Prize, Italian Psychology Association, Italy.
- 2011: Scientific evaluator, Romanian National Council for Scientific Research, Romania.

Academic memberships

- 2015-present: Elected member of the International Neuropsychology Symposium (<http://ins-1951.org>).

Open scientific collaborations

- Christian Bellebaum, Psychology Department, University of Dusseldorf, Germany.
- Eraldo Paulesu, Psychology Department, University Milan-Bicocca, Italy.
- Manuela Berlingeri, University of Urbino, Italy.
- Cristina Baldoli, Pasquale A. Della Rosa, OSR, Milan, Italy.
- Gabriele Miceli, CIMeC, University of Trento, Italy.
- Costanza Papagno, CIMeC, University of Trento, Italy.

- Daniela Perani, Vita-Salute University, Milan, Italy.
- Nicola Canessa, IUSS Center for Neurocognition and Theoretical Syntax, Pavia, Italy.
- Valentina Bambini, IUSS Center for Neurocognition and Theoretical Syntax, Pavia, Italy.
- Pier Marco Bertinetto, Linguistics Laboratory, Scuola Normale Superiore, Pisa, Italy.

Grants and funding

- 2020-2022: Strategies to ameliorate cognition in elderlies (Fondazione Cassa Di Risparmio Di Trento E Rovereto (CARITRO)). Role: collaborator.
- 2019-2021: A multimodal investigation on the embodiment of emotion concepts under subliminal lexical-semantic processing conditions (id. University of Trento, Decree No. 48, 23.05.2019: CIMeC funds to support a post-doctoral researcher for 24 months, awarded through an internal competitive process with peer review of an external committee). Role: principal investigator.
- 2016-2018: Aspects of language variability: Socio-pragmatics and typology (id. 2016-PISASNS-0003599, Scuola Normale Superiore, Pisa, Italy). Role: collaborator.
- 2014-2015: The neural bases of corporeal awareness (id. PRIN 2010ENPRYE_2006, Italian Ministry of University and Research). Role: collaborator.
- 2012-2015: The neural mechanisms of social interactions (id. PRIN 2010XPMFW4_008, Italian Ministry of University and Research). Role: collaborator.
- 2008-2010: The neural correlates of ambiguity processing (id. PBZHP1-123315, Swiss National Science Foundation). Role: scientific supervisor.
- 2006-2010: The Origins, Representation and Use of Abstract Concepts (ABSTRACT, id. 28714, STREP, FP6-2004-NEST-PATH-HUM, European Community). Role: collaborator.
- 2006-2008: A fMRI and genetic study of cerebral responses to social-emotional stimuli in children followed-up for social shyness (NARSAD Independent Investigator Award). Role: fMRI team leader.
- 2006-2009: Tuning the Brain for Music (BRAINTUNING, id. 28570, Funding: STREP, FP6-2004-NEST-PATH-IMP, European Community). Role: collaborator.
- 2005-2006: Italian Ministry of University and Research (id. FIRB 2005119758-001). Role: collaborator.
- 2003-2004: Italian Ministry of University and Research (id. FIRB 2003119330-009). Role: collaborator.
- 2000-2003: Network for efficiency and standardization of dementia diagnosis (NEST-DD) - EU-FP5-LIFE QUALITY (id. QLK6-CT-1999-02178). Role: collaborator.
- 1997-2000: Training and Mobility of Researchers (TMR) Grant of the European Community (EU-FP4) through the Swiss National Science Foundation (id. 83EU-050204). Role: principal investigator.

Peer reviewing activity *Scientific journals*

- Publons: <https://publons.com/researcher/1188871/marco-tettamanti/>
- Advances in Cognitive Psychology

- Bilingualism: Language and Cognition
- Biolinguistics
- Brain and Cognition
- Brain and Language
- Brain Research
- Brain Research Bulletin
- Brain Structure and Function
- Brain Topography
- Cerebral Cortex
- Cognition
- Cognitive, Affective, and Behavioral Neuroscience
- Cortex (Certificate of Reviewing Excellence 2013)
- Experimental Brain Research
- Frontiers in Bioscience
- Frontiers in Psychology
- Giornale Italiano di Psicologia
- Human Brain Mapping
- Journal of Clinical and Experimental Neuropsychology
- Journal of Cognitive Neuroscience
- Journal of Neurolinguistics
- Journal of Neuroscience
- Journal of Psycholinguistic Research
- Language and Cognition
- Language, Cognition and Neuroscience
- Memory and Cognition
- MIT Press, Linguistics and Language Section
- NeuroImage
- Neuropsychologia
- Neuropsychology Review
- PloS ONE
- Psychological Science
- Scientific Reports
- Social Cognitive and Affective Neuroscience

Reviewing editor
Scientific journals

- Frontiers in Psychology

Guest editorial activities

- Perani D., Abutalebi J., Tettamanti M. Bilingualism: Acquisition of Linguistic and non-Linguistic Skills in Bilinguals. *Brain and Language* 109(2-3):51-156 (2009).

h-index (2020, August 11)

- Scopus: 31
- Web of Science: 30
- Google Scholar: 38
(<https://scholar.google.it/citations?user=x4qQI4AAAAAJ>)

Peer-reviewed publications
[I.F. = Impact Factor]

1. **Tettamanti M.**, Armstrong J.D., Yang M.Y., Endo K., Furukubo-Tokunaga K., Kaiser K., Reichert H. Early development of the *Drosophila* mushroom bodies, brain centres for associative learning and memory. *Development Genes & Evolution* 207: 242-252 (1997). [I.F. 1.231]

2. Cappa S.F., Perani D., Schnur T., **Tettamanti M.**, Fazio F. The effects of semantic category and knowledge type on lexical-semantic access: A PET Study. *Neuroimage* 8: 350-359 (1998). [I.F. 5.611]
3. Perani D., Schnur T., **Tettamanti M.**, Gorno-Tempini M., Cappa S.F., Fazio F. Word and Picture Matching: a PET Study of Semantic Category Effects. *Neuropsychologia* 37:293-306 (1999). [I.F. 2.687]
4. Perani D., Cappa S.F., Schnur T., **Tettamanti M.**, Collina S., Rosa M., Fazio F. The neural correlates of verb and noun processing: a PET study. *Brain* 122 (12): 2337-2344 (1999). [I.F. 7.374]
5. Moresco R.M., **Tettamanti M.**, Gobbo C., Del Sole A., Ravasi L., Messa C., Paulesu E., Lucignani G., Perani D., Fazio F. Acute effects of 3-(4-acetamido)-butyryl-lorazepam (DDS2700) on brain function assessed by PET at rest and during attentive task. *Nuclear Medicine Communications* 22(4): 399-404 (2001). [I.F. 1.190]
6. Moro A., **Tettamanti M.**, Perani D., Cappa S.F., Donati C., Forbice V., Fazio F. Syntax and the brain: disentangling grammar by selective anomalies. *Neuroimage* 13(1):110-118 (2001). [I.F. 7.879]
7. Perani D., Brunelli G.A., **Tettamanti M.**, Scifo P., Tecchio F., Rossini P.M., Fazio F. Remodelling of sensorimotor maps in paraplegia: a functional magnetic resonance imaging study after a surgical nerve transfer. *Neuroscience Letters* 303(1): 62-66 (2001). [I.F. 2.021]
8. Perani D., Fazio F., Borghese A., **Tettamanti M.**, Ferrari S., Decety J., Gilardi M.C. Different brain correlates for watching real and virtual hand actions. *Neuroimage* 14(3): 749-758 (2001). [I.F. 7.879]
9. **Tettamanti M.**, Paulesu E., Scifo P., Maravita A., Fazio F., Perani D., Marzi C.A. Interhemispheric transmission of visuomotor information in humans: fMRI evidence. *Journal of Neurophysiology* 88: 1051-1058 (2002). [I.F. 3.743]
10. **Tettamanti M.**, Alkadhi H., Moro A., Perani D., Kollias S., Weniger D. Neural correlates for the acquisition of natural language syntax. *NeuroImage* 17: 700-709 (2002). [I.F. 5.624]
11. Perani D., Cappa S.F., **Tettamanti M.**, Rosa M., Scifo P., Miozzo A., Basso A., Fazio F. A fMRI study of word retrieval in aphasia. *Brain and Language* 85(3): 357-368 (2003). [I.F. 1.317]
12. **Tettamanti M.**, Weniger D. The acquisition of natural language syntax: an fMRI study. *Bulletin suisse de linguistique appliquée* 78: 79-92 (2004).
13. Vitali P., **Tettamanti M.** La récupération de l'anomie: le chemin neurobiologique pour retrouver ses mots. *Rééducation orthophonique* 219: 95-106 (2004).
14. **Tettamanti M.**, Buccino G., Saccuman M.C., Gallese V., Danna M., Scifo P., Fazio F., Rizzolatti G., Cappa S.F., Perani D. Listening to action-related sentences activates fronto-parietal motor circuits. *Journal of Cognitive Neuroscience* 17(2): 273-281 (2005). [I.F. 4.533]
15. Vitali P., Abutalebi J., **Tettamanti M.**, Rowe J., Scifo P., Fazio F., Cappa S.F., Perani D. Generating animal and tool names: an fMRI study of effective connectivity. *Brain and Language* 93(1): 32-45 (2005). [I.F. 2.129]
16. **Tettamanti M.**, Moro A., Messa C., Moresco R.M., Rizzo G., Carpinelli A., Matarrese M., Fazio F., Perani D. Basal ganglia and language: phonology modulates dopaminergic release. *NeuroReport* 16(4): 397-401 (2005). [I.F. 1.995]
17. **Tettamanti M.**, Weniger D. Broca's area: a supramodal hierarchical processor? *Cortex*, 42(4): 491-494 (2006). [I.F. 3.724]
18. Abutalebi J., Keim K., Brambati S.M., **Tettamanti M.**, Cappa S.F., De Bleser R., Perani D. Late acquisition of literacy in a native language, *Human Brain Mapping* 28(1): 19-33 (2007). [I.F. 6.151]
19. Vitali P., Abutalebi J., **Tettamanti M.**, Danna M., Ansaldo A.I., Perani

- D., Joannette Y., Cappa S.F. Training-induced brain remapping in aphasia: a pilot study. *Neurorehabilitation and Neural Repair* 21(2): 152-160 (2007). [I.F. 3.823]
20. Romero L., **Tettamanti M.**, Cappa S.F., Papagno C. Idiom comprehension: a prefrontal task? *Cerebral Cortex* 18(1): 162-170 (2008). [I.F. 6.519]
21. Siri S., **Tettamanti M.**, Cappa S.F., Della Rosa P., Saccuman C., Scifo P., Vigliocco G. The neural substrates of naming events: effects of processing demands but not of grammatical class. *Cerebral Cortex* 18(1): 171-177 (2008). [I.F. 6.519]
22. Canessa N., Borgo F., Cappa S.F., Perani D., Falini A., Buccino G., **Tettamanti M.**, Shallice T. The different neural correlates of action and functional knowledge in semantic memory: an fMRI study. *Cerebral Cortex* 18(4): 740-751 (2008). [I.F. 6.519]
23. **Tettamanti M.**, Manenti R., Della Rosa P.A., Falini A., Perani D., Cappa S.F., Moro A. Negation in the brain: modulating action representations. *Neuroimage* 43(2): 358-367 (2008). [I.F. 5.457]
24. **Tettamanti M.**, Rotondi I., Perani D., Scotti G., Fazio F., Cappa S.F., Moro A. Syntax without language: neurobiological evidence for cross-domain syntactic computations. *Cortex* 45(7): 825-838 (2009). [I.F. 3.123]
25. Abutalebi J., **Tettamanti M.**, Perani D. The bilingual brain: linguistic and non-linguistic skills. *Brain and Language* 109(2-3):51-54 (2009). [I.F. 2.973]
26. Abutalebi J., Della Rosa P.A., **Tettamanti M.**, Green D., Cappa S.F. Bilingual aphasia and language control: a follow-up fMRI and effective connectivity study. *Brain and Language* 109(2-3):141-156 (2009). [I.F. 2.973]
27. Ghio M., **Tettamanti M.** Semantic domain-specific functional integration for action-related vs. abstract concepts. *Brain and Language* 112 (3): 223-232 (2010). [I.F. 2.981]
28. Manenti R., **Tettamanti M.**, Cotelli M., Miniussi C., Cappa S.F. The neural bases of word encoding and retrieval: a fMRI-guided transcranial magnetic stimulation study. *Brain Topography* 22(4): 318-332 (2010). [I.F. 3.288]
29. Vitali P., **Tettamanti M.**, Abutalebi J., Ansaldo A.I., Perani D., Cappa S.F., Joannette Y. Generalization of training for anomia: evidence from changes in cortical connectivity. *Neurocase* 16(2): 93-105 (2010). [I.F. 1.069]
30. Enrici I., Adenzato M., Cappa S., Bara B.G., **Tettamanti M.** Intention processing in communication: A common brain network for language and gestures. *Journal of Cognitive Neuroscience* 23: 2415-2431 (2011). [I.F. 5.175]
31. **Tettamanti M.**, Rognoni E., Cafiero R., Costa T., Galati D., Perani D. Distinct pathways of neural coupling for different basic emotions. *Neuroimage* 59(2): 1804-1817 (2012). [I.F. 6.252]
32. Battaglia M., Zanoni A., Taddei M., Giorda R., Bertolotti E., Lampis V., Scaini S., Cappa S., **Tettamanti M.** Cerebral Responses to Expressions of Emotions and the Development of Social Anxiety Disorder: a Longitudinal Study. *Depression and Anxiety* 29(1): 49-61 (2012). [I.F. 4.610]
33. **Tettamanti M.**, Moro A. Can syntax appear in a mirror (system)? *Cortex* 48(7): 923-935 (2012). [I.F. 6.161]
34. Taddei M.[‡], **Tettamanti M.**[‡], Zanoni A., Cappa S., Battaglia M. Brain White Matter Organisation in Adolescence is Related to Childhood Cerebral Responses to Facial Expressions and Harm Avoidance. *Neuroimage* 61(4): 1394-1401 (2012). [‡]Authors with equal contribution. [I.F. 6.252]
35. Marcone A., Garibotto V., Moresco R.M., Florea I., Panzacchi A.,

- Carpinelli A., Virta J.R., **Tettamanti M.**, Borroni B., Padovani A., Bertoldo A., Herholz K., Rinne J., Cappa S., Perani D. ¹¹C-MP4A PET cholinergic measurements in aMCI, pAD and DLB: A Bayesian method and voxel-based analysis. *Journal of Alzheimer Disease* 31(2): 387-399 (2012). [I.F. 4.174]
36. Alemanno F., Houdayer E., Cursi M., Velikova S., Tettamanti M., Cappa S.F., Leocani L. Action-related semantic content and negation polarity modulate motor areas during sentence reading: a mu event-related desynchronization study. *Brain Research* 1484(12): 39-49 (2012). [I.F. 2.879]
37. Locatelli M., Gatti R., **Tettamanti M.** Training of Manual Actions Improves Language Understanding of Semantically-Related Action Sentences. *Frontiers in Psychology* 3(547): 1-10 (2012). [I.F. 2.800]
38. Bellebaum C., **Tettamanti M.**, Marchetta E., Della Rosa P.A., Rizzo G. Daum I., Cappa S.F. Neural representations of unfamiliar objects are modulated by sensorimotor experience. *Cortex* 49(4): 1110-1125 (2013). [I.F. 6.042]
39. Bianchi A.M., Marchetta E., Tana M.G., **Tettamanti M.**, Rizzo G. Frequency-based approach to the study of semantic brain networks connectivity. *Journal of Neuroscience Methods* 212(2): 181-189 (2013). [I.F. 1.959]
40. Bartoli E., Tettamanti A., Farronato P., Caporizzo A., Moro A., Gatti R., Perani D., **Tettamanti M.** The disembodiment effect of negation: negating sentences related to actions involving proximal or distal arm musculature attenuates their interference with congruent arm movements. *Journal of Neurophysiology* 109(7): 1782-1792 (2013). [I.F. 3.041]
41. Consonni M., Cafiero R., Marin D., **Tettamanti M.**, Iadanza A., Fabbro F., Perani D. Neural convergence for language comprehension and grammatical class production in highly proficient bilinguals is independent of age of acquisition. *Cortex* 49(5): 1252-1258 (2013). [I.F. 6.042]
42. **Tettamanti M.** A research program in neuroimaging for an evolutionary theory of syntax. *Language and Cognition* 5(2-3): 57-66 (2013).
43. Ghio M., Vaghi M.M.S., **Tettamanti M.** Fine-grained semantic categorization across the abstract and concrete domains. *PLoS ONE* 8(6): e67090 (2013). [I.F. 3.534]
44. Garibotto V.[‡], **Tettamanti M.**[‡], Marcone A., Florea I., Panzacchi A., Moresco R., Cappa S.F., Perani D. Cholinergic activity correlates with reserve proxies in Alzheimer's Disease. *Neurobiology of Aging* 34(11): 2694.e13-2694.e18 (2013). [‡]Authors with equal contribution. [I.F. 4.853]
45. Romero Lauro L.J., Mattavelli G., Papagno C., **Tettamanti M.** She runs, the road runs, my mind runs, bad blood runs between us: literal and figurative motion verbs. An fMRI study. *Neuroimage* 83: 361-371 (2013). [I.F. 6.132]
46. Canessa N., Crespi C., Motterlini M., Baud-Bovy G., Chierchia G., Pantaleo G., **Tettamanti M.**, Cappa S.F. The functional and structural neural basis of individual differences in loss aversion. *Journal of Neuroscience* 33(36): 14307-14317 (2013). [I.F. 6.747]
47. **Tettamanti M.** «Rappresentazioni» come reti neurali distribuite in un'ottica Embodied. *Giornale Italiano di Psicologia* 1: 109-114 (2013).
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55. Caminiti S.P.[‡], **Tettamanti M.**[‡], Sala A.[‡], Presotto L., Iannaccone S., Cappa S.F., Magnani G., Perani D., for the A.D.N.I. Metabolic connectomics targeting brain pathology in dementia with Lewy bodies. *Journal of Cerebral Blood Flow & Metabolism* 37(4): 1311-1325 (2017). [‡]Authors with equal contribution. [I.F. 6.045]
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65. Bechtold L., Ghio M., Antoch G., Turowski B., Wittsack H.J., **Tettamanti M.**, Bellebaum C. How words get meaning: the neural processing of novel object names after sensorimotor training. *Neuroimage* 197: 284-294 (2019). [I.F. ?]
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68. Papagno C., Barvas E., **Tettamanti M.**, Gainotti G. Selective defects of face familiarity in a patient with acquired prosopagnosia due to an extensive left temporo-occipital lesion. *Neurological Sciences* (in press). [I.F. ?]
- **Tettamanti M.**[‡], Sulpizio S.[‡], Cara C., Perani D. The effects of emotional face expressions on spatial representations in working memory: a behavioral study. *Submitted*. [‡]Authors with equal contribution.
 - Ghio M., Conca F., Bellebaum C., Perani D., **Tettamanti M.** Effective connectivity in the action representation system during aware and unaware tool processing. *In preparation*.

Books and Chapters

1. Rizzo G., Vitali P., Baselli G., **Tettamanti M.**, Scifo P., Cerutti S., Perani D., Fazio F. Exploring semantic Memory Areas by Functional MRI. In: Akay M. (ed.), *Handbook of Neural Engineering*, Wiley-IEEE Press, pp. 211-226 (2007).
2. Perani D., **Tettamanti M.** Etica delle Neuroimmagini. Ch. 5. In: Sironi V.A., Di Francesco M. (eds.), *Neuroetica. La nuova sfida delle neuroscienze*, Laterza, pp. 86-122 (2011).
3. **Tettamanti M.**, Perani D. The neurobiology of structure-dependency in natural language grammar. Vol. 1, Ch. 12. In: Faust M. (ed.), *Handbook of the Neuropsychology of Language*, Blackwell, pp. 229-251 (2012).
4. Migliardi M., Degano C., **Tettamanti M.** Fostering Independent Living in the Aging Population through Proactive Paging. In: Xhafa F., Moore P., Tadros G. (eds.), *Advanced Technological Solutions for E-Health and Dementia Patient Monitoring*, IGI Global, Hershey (PA), USA, pp. 239-271 (2015).
5. Ghio M., **Tettamanti M.** Grounding sentence processing in the Sensory-Motor System. Ch. 52. In: Small S.L., Hickok, G. (eds.), *The Neurobiology of Language*, Elsevier, pp. 647-657 (2015).
6. **Tettamanti M.** *Il Cervello Sintattico*. Editore Carocci, p. 128 (2020). ISBN: 978-88-430-9652-7.

Conference presentations

- **Tettamanti M.**, Perani D., Cappa S.F., Schnur T., Collina S., Rosa M., Fazio F. Grammatical Categories in the Brain: the neural correlates of concrete/abstract verb and noun processing. Abstracts of the Society for Neuroscience Meeting 1998, 15.11, p.21. Los Angeles. Oral presentation.
- Cappa S.F., Perani D., **Tettamanti M.**, Scifo P., Miozzo A., Rosa M., Fazio F. Grammatical Categories in the Brain: the neural correlates of concrete/abstract verb and noun processing. Abstracts of the Society for Neuroscience Meeting 1998, 15.11, p.21. Los Angeles. Oral presentation.
- Cappa S.F., Perani D., **Tettamanti M.**, Scifo P., Miozzo A., Rosa M., Fazio F. Recovery of aphasia: a fMRI study. Abstracts of the European Neuroscience Society Meeting 1998, 120.07, p.306.
- Perani D., Brunelli G., **Tettamanti M.**, Blasi V., Scifo P., Paulesu E., F. Fazio. fMRI Study of the Functional Reorganization of the Sensorimotor Cortex in Papaplegia: Ulnar Nerve Surgical Transfer as a Model. Abstracts

of the Society for Neuroscience Meeting 1998, 654.1, p.1666.

• **Tettamanti M.**, Moro A., Perani D., Cappa S.F., Donati C., Forbice V., Compierchio A., Fazio F. Syntax in the brain. Abstracts of the Society for Neuroscience Meeting 1999, 724.11, p.1814. Oral presentation.

• Marzi C.A., Perani D., Paulesu E., **Tettamanti M.**, Maravita A., Scifo P., Fazio F. Cortical areas involved in the interhemispheric transfer of visuomotor information: evidence from fMRI. Abstracts of the Society for Neuroscience Meeting 2000.

• **Tettamanti M.**, Moro A., Weniger D., Menoncello L., Alkadhi H., Crelier G., Scifo P., Cappa S.F., Perani D., Kollias S., Fazio F. Neural correlates of learning new grammatical rules: a fMRI study. Abstract presented at the 29th Annual INS Conference, J. Internat. Neuropsychol. Soc. 7(2):198 (2001). Oral presentation.

• **Tettamanti M.**, Grammatica e Cervello: Studio con tecniche di neuroimmagine (PET e fMRI), VI Congresso Nazionale della Società Italiana di Psicopatologia, Roma, 2001. Oral presentation.

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• Abutalebi J., Keim K., Brambati S.M., **Tettamanti M.**, Danna M., Cappa S.F., De Bleser R., Perani D. Learning to read a dialect: fMRI evidence from Südtirol. Abstract presented at the 10th Annual OHBM Conference, Neuroimage, Poster MO1 (2004).

• Scifo P., **Tettamanti M.**, Blasi V., Gilardi M.C., Falini A., Perani D., Fazio F. SENSE fMRI at 3Tesla for the study of memory tasks. Abstract presented at the Second International Workshop on Parallel MRI, Zurich, 2004.

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• Canessa N., Borgo F., Cappa S.F., Perani D., **Tettamanti M.**, Buccino G., Falini A., Buccino G., Rizzolatti G., Shallice T. The different neural correlates of action and functional knowledge in semantic memory: an ER-fMRI study. Abstract presented at the 11th Annual OHBM Conference, Neuroimage 26(S1), e1-402 (2005).

• **Tettamanti M.**, Rotondi I., Perani D., Scotti G., Fazio F., Cappa S.F., Moro A. Universal Grammar without language. Abstract presented at the San Raffaele Scientific Retreat, Bardolino (2006). Oral presentation.

• **Tettamanti M.**, Manenti R., Della Rosa P.A., Falini A., Perani D., Cappa S.F., Moro A. The Effects of Sentential Negation on Action Representation. Abstract presented at the San Raffaele Scientific Retreat, Bardolino (2006).

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• Romero L., **Tettamanti M.**, Papagno C., Cappa S.F. The neural correlates of idiom comprehension: an fMRI study. Abstract presented at

- the 12th Annual OHBM Conference, *Neuroimage* 31(S1), e1-340 (2006).
- Vitali P., **Tettamanti M.**, Abutalebi J., Cappa S.F., Joanette Y. Generalisation of training for anomia in two aphasic patients: evidence from changes in cortical connectivity. Abstract presented at the 12th Annual OHBM Conference, *Neuroimage* 31(S1), e1-375 (2006).
 - Rognoni E., **Tettamanti M.**, Brischetto Costa T., Galati D., Perani D., Cappa S.F. Basic emotions induced by watching video-clips: an event-related fMRI study. Abstract presented at the 13th Annual OHBM Conference, *Neuroimage* 36(S1), e1-118 (2007).
 - Abutalebi J., Della Rosa P.A., Scifo P., Tognonato C., Daccò S., **Tettamanti M.**, Cappa S.F. A new approach to study differential recovery in bilingual aphasia: the combination of er-fMRI, DCM and DTI. Abstract presented at the 13th Annual OHBM Conference, *Neuroimage* 36(S1), e1-134 (2007).
 - Enrici I., Adenzato M., Bara B.G., Cappa S.F., **Tettamanti M.**, The role of the posterior superior temporal sulci in understanding linguistic and extralinguistic communicative intentions. Abstract presented at the 14th Annual OHBM Conference, *Neuroimage* 41(S1), e1-391 (2008).
 - Ghio M., **Tettamanti M.** Semantic domain-specific functional integration for action-related vs. abstract concepts. Abstract presented at the 2nd Annual Meeting of the Embodied & Situated Language Processing, Rotterdam (2009).
 - Bartoli E., Caporizzo A., Tettamanti A., Gatti R., Moro A., Perani D., **Tettamanti M.** Better forelimb motor performance when listening to negative vs affirmative action-related sentences. Abstract presented at the 4th Workshop on Concepts, Actions, and Objects: Functional and Neural Perspectives, Rovereto (2010).
 - Keisker B., Cappa S., Kollias S., **Tettamanti M.** The neural correlates of lexical and figural ambiguity processing. Abstract presented at the 16th Annual OHBM Conference, Abstract book, p. 9 (2010).
 - Consonni M., Cafiero R., Marin D., **Tettamanti M.**, Iadanza A., Fabbro F., Perani D. The Role of Language Age of Acquisition and Proficiency In and Noun and Verb Processing in Bilinguals. Abstract presented at the 17th Annual OHBM Conference, Abstract book, p. 70 (2011).
 - Bara B., Enrici I., Cappa S.F., **Tettamanti M.**, Adenzato, M. Processing communicative intentions recruits a common neural network regardless of the expressive modalities. Abstract submitted to the European Conference on Cognitive Science 2011.
 - Romero Lauro L.J., Mattavelli G., Cappa S.F., Papagno C., **Tettamanti M.** La ragazza corre. La mente corre. La strada corre. Rappresentazioni sensorimotorie per verbi motori in senso letterale e figurato: uno studio con risonanza magnetica funzionale. Abstract submitted to the Spring Meeting of the Società Italiana di Neuropsicologia, May 2011.
 - Albertini S., **Tettamanti M.**, Moro A. Imposed disorder: syntax resistance in a task of voluntary sentence distortion. Abstract submitted to the Fall Meeting of the Società Italiana di Neuropsicologia, November 2011.
 - Romero Lauro L.J., Mattavelli G., Papagno C., **Tettamanti M.** Sensorimotor Representation for Motion Verbs in Literal vs Figurative Context: A fMRI Study. Abstract presented at the 50th Annual Meeting of the Academy of Aphasia, *Procedia: Social & Behavioral Sciences* 61: 224-225 (2012).
 - Albertini S., **Tettamanti M.**, Moro A. Sintassi e working memory: un nuovo paradigma di valutazione. In *Atti del Convegno, AISC 2013* (Vol. 2, pp. 23–28). Napoli, Italy: *Giornale Italiano di Neuroscienze, Psicologia e Riabilitazione* (2013).
 - Ghio M., Vaghi M.M.S., **Tettamanti M.** fMRI mapping and decoding of fine-grained categories across abstract and concrete semantic domains. Abstract presented at the 20th Annual OHBM Conference (2014).

- Zapparoli L., **Tettamanti M.**, Porta M., Zerbi A., Servello D., Banfi G., Paulesu E. A push-pull cortico-subcortical effective connectivity pattern in Gilles de la Tourette Syndrome: an fMRI Dynamic Causal Modelling study. Abstract presented at the 1st World Congress on Tourette Syndrome and Tic Disorders, London, UK (2015).
- Muzzarelli L., **Tettamanti M.**, Taddei M., Battaglia M. The emotional processing network at the onset of social anxiety disorder: a combined diffusion tensor imaging and functional connectivity study. Abstract presented at the 29th ECNP Congress, Vienna. *European Neuropsychopharmacology* 26 (Suppl. 2) s328-s329 (2016).
- Conca F., **Tettamanti M.**, Perani D. Unaware processing in the neural system for action representation: evidence from a fMRI study. European Workshop on Cognitive Neuropsychology 2017, Brixen, January 2017.
- Ghio M., Conca F., Bellebaum C., Perani D., Tettamanti M. Effective connectivity in the action representation system during aware and unaware tool processing. Abstract presented at the 25th Annual OHBM Conference (2019).
- Bambini V., Bertinetto P.M., Cudas Thompson J., **Tettamanti M.** Guaraní in the scanner: fMRI experiments on temporality and person reference. Abstract accepted for the Crosslinguistic Perspectives on Processing and Learning (X-PPL 2019) Conference, Zurich, 2019.

Invited talks & keynote lectures

- Tettamanti M.**, The neural correlates of learning new syntactic rules. University Hospital, Zurich, May 3, 2000.
- Tettamanti M.**, Different brain correlates for watching real and virtual hand actions. University Hospital, Zurich, March 26, 2001.
- Tettamanti M.**, Interhemispheric transmission of visuomotor information in humans: fmri evidence. University Hospital, Zurich, April 3, 2002.
- Tettamanti M.**, Esperimenti cognitivi con fMRI: Introduzione clinica, Corso ECM di "Imaging funzionale", Como, October 15-17, 2003.
- Tettamanti M.**, Modelli cognitivi del linguaggio ed imaging, Corso ECM di "Modelli cognitivi e programmi riabilitativi in relazione ai deficit afasici, aprassici e delle funzioni cognitive", Trieste, May 20-21, 2005.
- Tettamanti M.**, Neural correlates of action semantics and motor representations, National Congress of the Italian Society for Neuroscience and Joint Italian-Swedish Neuroscience Meeting, Ischia, Italy, October 1, 2005. Abstract book, p. 58.
- Tettamanti M.**, Action semantics: I did, I do, I don't & fMRI, Guest lecture, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, March 1, 2006.
- Tettamanti M.**, fMRI and Effective Connectivity, International Conference Science of Aphasia (European Science Foundation), VII Meeting, Alghero, Italy, September 8, 2006.
- Tettamanti M.** Le rappresentazioni neurali della struttura del linguaggio, Corso ECM di "Neuropsicologia e Neuroimaging", Trieste, May 25-26, 2007.
- Tettamanti M.** Supramodal responses to linguistic and non-linguistic structural properties in the inferior frontal cortex, International Neuropsychological Symposium, Mati, Greece, June 19-23, 2007.
- Tettamanti M.** I did, I do, I don't. Invited Speaker at the Workshop ESP07 "Embodied sentence processing", Saarland University, Germany, August 17-19, 2007. Abstract book, p. 27.
- Tettamanti M.** Supramodal Responses in the Inferior Frontal Cortex. Cognition, Perceptual and Brain Sciences Seminars, University College London, U.K., December 4, 2007.
- Tettamanti M.**, Moro A., Affermazione e negazione: modulazione sintattica delle rappresentazioni cerebrali dell'azione. Invited talk of the

- “Seminario di Neurobiologia e Filosofia” Series, University of Milan, Italy, June 4, 2008.
- **Tettamanti M.** I do, I do not. Symposium “Language and the Motor System” at the 1st Meeting of the Federation of the European Societies of Neuropsychology, Edinburgh, UK, September 3, 2008. Abstract book, p. 62.
 - **Tettamanti M.** Mappaggio delle aree del linguaggio con fMRI. Invited Speaker at the XXIV Congresso Nazionale dell' Associazione Italiana di Neuroradiologia, Roma, Italy, October 1, 2008. *The Neuroradiology Journal* 21(2): 33 (2008).
 - **Tettamanti M.** Neuroimmagini e linguaggio: struttura supramodale e contenuto modale. Scuola Normale Superiore; Pisa, Italy, December 19, 2008.
 - **Tettamanti M.** I do, I do not: semantic domain-specific functional integration. Research colloquium, Department of Neuropsychology of the Institute for Cognitive Neuroscience, Ruhr-University Bochum, Germany , May 7, 2009.
 - **Tettamanti M.** I do, I do not: Modulatory effects of syntax on semantic representations. Cognition, Perceptual and Brain Sciences Seminars, University College London, U.K., May 10, 2011.
 - **Tettamanti M.** I do, I do not: Modulatory effects of syntax on semantic representations. Workshop on Neurobiology of Embodied Language (NOEL 2011), Bielefeld University, Germany, October 7, 2011.
 - **Tettamanti M.** Risonanza magnetica funzionale, strutturale e del tensore di diffusione nello studio del recupero dall'afasia. Workshop on Language and Communication Disorders, Scuola Normale Superiore; Pisa, Italy, December 16, 2011.
 - **Tettamanti M.** Embodiment versus Disembodiment: conceptual-semantic representations and their modulation by syntactic negation. IUSS, Pavia, Italy, May 21, 2013.
 - **Tettamanti M.** Embodiment versus Disembodiment: conceptual-semantic representations and their modulation by syntactic negation. IGSN Symposium “Action semantics in the Brain”, Ruhr-University Bochum, Germany , December 2, 2013.
 - **Tettamanti M.** An introduction to Dynamic Causal Modelling / Testing competing models with Dynamic Causal Modelling. University Milan-Bicocca, Italy, December 9 and 16, 2013.
 - **Tettamanti M.** Embodiment versus Disembodiment: conceptual-semantic representations and their modulation by syntactic negation. AISC 2015 Conference, Roma, Italy, December 5, 2014.
 - **Tettamanti M.** Experience-grounded conceptual-semantic representations and their modulation by linguistic context. MODELACT 2015 Workshop, Firenze, Italy, June 11, 2015.
 - **Tettamanti M.** Experience-grounded conceptual-semantic representations and their modulation by linguistic context. Colloquium of the Psychology Department, University of Dusseldorf, Germany, February 9, 2016.
 - **Tettamanti M.** Artificial Grammars as a formal account to study language processing, development, and evolution: a general overview. IUSS, Pavia, Italy, July 14, 2016.
 - **Tettamanti M.** Functional Connectivity. Federation European Societies Neuropsychology, Berlin, September 1, 2016.
 - **Tettamanti M.** Conceptual semantics as grounded in personal experience. San Raffaele Spring School of Philosophy 2017, Milan, May 24, 2017.
 - **Tettamanti M.** Semantics as grounded in sensorimotor and personal experience. Humanitas Research Hospital and University, Milan, June 27, 2017.

- **Tettamanti M.** Functional Magnetic Resonance Imaging and its applications to the cognitive neuroscience of language, Institute Codas Thompson, Asunción, Paraguay, May 3, 2018.
- **Tettamanti M.** Brain dynamics for linguistic context processing: neuroimaging evidence, XPRAG.it 2018 Conference, Pavia, Italy, May 31. <https://doi.org/10.3389/conf.fpsyg.2018.73.00010>. <https://osf.io/vgup3/>.
- **Tettamanti M.** Brain dynamics of semantics grounded in personal experience. CIMeC Doctoral Day 2019, Rovereto, Italy, January 15, 2019.
- **Tettamanti M.** Hierarchical syntactic structures in language processing, development and evolution: an overview. IDEALAB PhD Winter School 2019. Rovereto, Italy, January 31, 2019.
- **Tettamanti M.** Brain dynamics of semantic processing grounded in personal experience. Conversazioni Linguistiche 2019-2020, University of Trento, Italy, November 22, 2019.

Outreach / Impact on Media

- **Tettamanti M.** Il linguaggio: Le recenti scoperte nel campo della neurobiologia. TV interview on Radiotelevisione Svizzera, broadcasted on April 27, 2014 (<https://www.rsi.ch/la1/programmi/cultura/il-giardino-di-albert/Il-giardino-di-Albert-422167.html>).
- **Tettamanti M.** Settimana del Cervello: i progressi fatti nell'ambito della ricerca sul cervello. Radio interview on Radiotelevisione Svizzera, broadcasted on March 17, 2015 (<http://www.rsi.ch/rete-due/programmi/cultura/attualita-culturale/Ledizione-2015-della-ricerca-sul-cervello-4072439.html>).
- **Tettamanti M.** Studioso di cervello e linguaggio nella Milano dell'Expo. Radio interview on Radiotelevisione Svizzera, broadcasted on April 30, 2015 (<http://www.rsi.ch/rete-uno/programmi/intrattenimento/albachiara/gli-espatriati/Studioso-di-cervello-e-linguaggio-nella-Milano-dellExpo-4496320.html>).
- Repubblica.it, November 25, 2017: Il cervello pianifica in modo automatico le azioni su alcuni oggetti. (http://www.repubblica.it/salute/ricerca/2017/11/25/news/cervello_reagisce_oggetti_intorno_inconsciamente-181815395/?refresh_ce).
- Featured in the "MIND, Mente & Cervello, Le Scienze" magazine, April, 2020: "E il cervello creò il verbo" by Campagna I. (https://www.lescienze.it/mind/articoli/2020/03/31/news/e_il_cervello_creo_il_verbo-4702575/).
- **Tettamanti M.** L'importanza del linguaggio per la plasticità cerebrale nel corso di vita. CIMeC's cycle "Che ti passa per la testa? Le neuroscienze a casa tua". Broacasted on March 30 and April 2, 2020. (<https://www.youtube.com/watch?v=46gmOgTRRaU&feature=youtu.be>).

Techniques and skills in molecular biology

- Drosophila classical and molecular genetics.
- P[GAL4] enhancer-trapping.
- Hystological preparations.
- Immunohistochemistry.
- In-situ hybridization.
- Light- and fluorescence-microscopy, confocal-microscopy.
- Computed image processing.
- Invertebrate neurophysiology.

Techniques and skills in neuroimaging and cognitive neuroscience

- Psycholinguistic and neuropsychological evaluations.
- Implementation of neuroimaging experiments.
- Positron Emission Tomography (PET) data acquisition: GE-Advance.
- Multimodal Magnetic Resonance Imaging (MRI) data acquisition: GE-Signa Horizon 1.5 T, Philips Intera/Achieva/Ingenia 3T.

- Transcranial Magnetic Stimulation (TMS).
- Electroencephalography (EEG) and Event Related Potentials (ERPs).
- Analyze, MIPAV, ImageJ, and MRICro(n) software.
- Statistical Parametric Mapping software (SPM) and extensions.
- Dynamic Causal Modelling, Structural Equation Modelling, Psychophysiological interactions, (Resting State-) Functional Connectomics, Graph Theory.
- Independent Component Analysis and other model-free analyses.
- Multi-voxel pattern analysis (PyMVPA, PPRoNT).
- Voxel-based morphometry, lesion-symptom mapping, and cortical surface analysis.
- FSL (FMRIB Software Library) software, including TBSS.
- Diffusion Weighted Imaging, Diffusion Tensor Imaging.
- Trackvis software, deterministic and probabilistic Tractography.
- Connectome Workbench / Caret and Freesurfer software for cortical segmentation, inflating and flattening.
- Programming with Psychopy, Cogent (Matlab toolbox), Neurobehavioral Presentation, and Praat software.
- Programming with Matlab software.
- Programming with Python, IPython, and IPython Notebooks.
- Programming and statistical analysis with R software and R Markdown.
- Linux, Unix, Macintosh, and Windows operating system platforms.
- Linux Debian system administration.