

Curriculum Vitae

Personal information

First name & last name

Academic degree

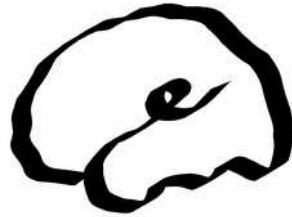
Date of birth

Place of birth

Nationality

Civil status

- Marco Tettamanti
- PhD, Associate Professor
- 30.10.1972
- Bellinzona, Switzerland
- Swiss
- Married, 2 children



Current position

Department

Institution

Address

Telephone

Email

Skype name

Website

ORCID

Researcher ID

- Associate Professor
- Department of Psychology
- University of Milan-Bicocca
- Piazza dell'Ateneo Nuovo 1, I-20126 Milano (MI), Italy
- +39-02-64483738
- marcodante.tettamanti@unimib.it
- mtettamanti
- <https://scholar.google.it/citations?user=x4qQI4AAAAAJ>
- <http://orcid.org/0000-0003-3039-1500>
- K-1510-2016

Language portfolio

Mother tongue

- Italian

Other languages

Self-assessment (European level*)

	English		French		German		Spanish		Portuguese	
	Listening	Reading	Listening	Reading	Spoken interaction	Spoken production	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).
	<ul style="list-style-type: none"> Degree (1996, April): M.Sc. in “Biologie II”, with specialization in Neurobiology and mention <i>cum laude</i> (Final mark: 5.1/6).
Habilitations	
<i>Full Professor level</i>	<ul style="list-style-type: none"> 2023, December 12: “Abilitazione Scientifica Nazionale come Professore di I fascia nel settore concorsuale 11/E1”, corresponding to the Full Professor level. A previous habilitation was also awarded on 2017, April 10. The current habilitation has validity until 2035, December 12.
<i>Associate Professor level</i>	<ul style="list-style-type: none"> 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	
<i>2022-present</i>	<ul style="list-style-type: none"> Associate Professor in Psychobiology and Psychophysiology, Department of Psychology, University of Milano-Bicocca, Italy.
<i>2018-2022</i>	<ul style="list-style-type: none"> Associate Professor in Psychobiology and Psychophysiology, CIMEC - Center for Mind/Brain Sciences, University of Trento, Italy.
<i>2006-2018</i>	<ul style="list-style-type: none"> Tenured full-time IRCCS research fellow, San Raffaele Scientific Institute.
<i>2003-2006</i>	<ul style="list-style-type: none"> Tenure-track full-time IRCCS research fellow, San Raffaele Scientific Institute.
<i>2000-2003</i>	<ul style="list-style-type: none"> Research fellow (borsista), San Raffaele Scientific Institute, laboratory of Prof. Stefano F. Cappa and Prof. Daniela Perani.
<i>1997-2000</i>	<ul style="list-style-type: none"> Training and Mobility of Researchers (EU-FP4) Grant Fellow, San Raffaele Scientific Institute, Milan, Italy.
Teaching	
<i>2022-present</i>	<ul style="list-style-type: none"> Professor, Department of Psychology, University of Milano-Bicocca, Italy, M.Sc. Courses in: “Cognitive Neuroscience of Language [56h/8ECTS]”, “Neuroimaging [28h/4ECTS]”, “Laboratory: Neuroimaging in Cognitive Neurosciences [28h/4ECTS]”.
<i>2023-present</i>	<ul style="list-style-type: none"> Lecturer at the Advanced Specialization School in Neuropsychology, University of Milano-Bicocca, Italy, Course in “Language deficits in neurological diseases [4h/1ECTS]”.
<i>2022-2024</i>	<ul style="list-style-type: none"> Professor, Department of Psychology, University of Milano-Bicocca, Italy, M.Sc. Course: “Laboratory: Psychopy [16h/2ECTS]”.
<i>2011-2024</i>	<ul style="list-style-type: none"> Lecturer at the post-graduate Master Course in Clinical Neurosciences. Catholic University of Milan & Brescia, Italy.
<i>2022-2024</i>	<ul style="list-style-type: none"> Lecturer at the post-graduate Master Course in Neuroimaging. Università degli Studi Gabriele d'Annunzio, Chieti, Italy.
<i>2019-2022</i>	<ul style="list-style-type: none"> Professor, M.Sc. Course in Cognitive Science, CIMEC, University of Trento, Italy, Courses in: “Psycholinguistics [42h/6ECTS]”, “Advanced Topics in Memory [42h/6ECTS]”.
<i>2019-2022</i>	<ul style="list-style-type: none"> Professor, M.Sc. Course in Data Science, CIMEC, University of Trento, Italy, Course in “Neuroimaging for Data Science [22h/3ECTS]”.
<i>2019-2022</i>	<ul style="list-style-type: none"> Professor, Ph.D. Course in Cognitive Neuroscience, CIMEC, University of Trento, Italy, Course in “Neurobiology for Beginners [6h/1ECTS]”.
<i>2001-2002, 2012-2017</i>	<ul style="list-style-type: none"> 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)”.

<p>2005-2015</p> <p>2004-2018</p> <p>2007, October 9,10,11 and 2009, February 23,24</p> <p>2016, September 1</p> <p>2015, March 30</p>	<ul style="list-style-type: none"> • 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.: Excercises (2013-2015)”, “Neurobiology of Language: Exercises (2009-2010)”, “Neurobiology of Language: Excercises (2013-2015)”. • Teaching assistant (“cultore della materia”) and examiner, Faculty of Psychology, Vita-Salute San Raffaele University, Milano, Italy. Courses in “Psychophysiology”, “Neuroscience”, “Cognitive Neuroscience”. • Visiting Lecturer at the M.Sc. in Human Cognitive Neuropsychology, Edinburgh University, U.K. • 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.
<p>Student supervision</p>	<ul style="list-style-type: none"> • Current supervisions: 1 post-doctoral student, 2 PhD students, 11 M.Sc. students, 0 B.Sc. students, and 2 internship fellows. • Past supervisions: 3 post-doctoral student, 7 PhD students, 45 M.Sc. students, 11 B.Sc. students, and 18 internship fellows. <p>List of past students:</p> <ul style="list-style-type: none"> • Birgit Keisker, post-doctoral student (2009) • Marta Ghio, post-doctoral student (2019-2021), M.Sc. student (2009) (website) • Tudor Popescu, post-doctoral student (2021-2022) • Matilde Taddei, PhD student (2010-2013) (website) • Francesca Forlè, PhD student (2012-2015) • Naima Rüther, visiting PhD student (2013) • Clara Soberats-Garau, visiting PhD student (2021) • Cara Cristina, PhD student (2019-2024), M.Sc. student (2018) • Beber Sabrina, PhD student (2019-2024) • Ryan J. Slaby, PhD student (2022-2025) • Giulia Loca, pre-doctoral fellow (2023) • Irene Rotondi, M.Sc. student (2006), B.Sc. student (2004) • Marilù Lo Stimolo, M.Sc. student (2008) • 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)

- Federico Calesella, M.Sc. student (2019)
- Dhyana Menon, M.Sc. student (2019)
- Maria Chiara De Pasquale, M.Sc. student (2019)
- Hülya Aldemir, external M.Sc. student, (2020)
- Barbara Cassone, M.Sc. student (2021), internship fellow (2019-2020)
- Alice Guerrini, M.Sc. student (2021), internship fellow (2019-2020)
- Giorgia Bontempi, M.Sc. student (2021), internship fellow (2021, 2022)
- Sara Carta, external M.Sc. student (2021), internship fellow (2020-2021)
- Duygu Buga, external M.Sc. student (2021)
- Giulia Zantonello, M.Sc. student (2022), internship fellow (2021-2022)
- Rosaria Lorenzano, M.Sc. student (2022)
- Irene Bellin, M.Sc. student (2022-2023)
- Elena Pane, M.Sc. student (2022-2023)
- Elisa Radicioni, M.Sc. student (2022-2023)
- Alessia Bianchi, M.Sc. student (2022-2023)
- Lucia Giorgione, M.Sc. student (2022-2023)
- Alessia Bianchi, M.Sc. student (2022-2023)
- Carola Giorchino-Ghio, M.Sc. student (2023-2024)
- Carola Parisi M.Sc. student (2023-2024), research assistant (2025)
- Ennio Lauretta, M.Sc. student (2024-2025)
- Chiara Marino, M.Sc. student (2024-2025)
- Giulio Biscardi, M.Sc. student (2024-2025)
- Ester Corigliano, M.Sc. student (2024-2025)
- Rebecca Lupi, M.Sc. student (2024-2025)
- Carolina Sassi M.Sc. student (2024-2025)
- Ruggero Bettinardi, B.Sc. student (2009) ([website](#))
- Armando 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 Mazzarelli, internship fellow (2015-2016) ([website](#))
- Anna Santini, internship fellow (2019)
- Giacomo Tomezzoli, internship fellow (2019)
- Toni Polonjio, Erasmus internship fellow (2019-2020)
- Ricardo De Haro Mancha, internship fellow (2021)
- Polina Stulova, internship fellow (2021-2022)

Institutional responsibilities

- 2025-present: Member of the Executive Board of the Milan Center for Neuroscience (NeuroMI, <https://neuromi.it/>).
- 2024-present: Member of the Joint Education Committee (Commissione Paritetica Docenti-Studenti) of the Department of Psychology, University of Milan-Bicocca, Italy.
- 2023-present: Member of the Governance Group for the “Dipartimenti di Eccellenza” Project 2023-2027, Department of Psychology, University of Milano-Bicocca, Italy.
- 2023-present: Faculty member of the Doctoral Program in Psychology, Linguistics, and Cognitive Neurosciences, University of Milano-Bicocca,

Italy.

- 2023-present: Faculty member of the Doctoral Program in Cognitive Brain Sciences, IUSS, Pavia, Italy, conjointly with University of Pavia, Italy.
- 2022-present: Faculty member of the Specialization School in Neuropsychology, University of Milano-Bicocca, Italy.
- 2024: PhD thesis defense committee member, University of Milano-Bicocca, Italy.
- 2023: PhD thesis defense committee member, University of Salento, Italy.
- 2021: PhD thesis defense committee member, University of Urbino, Italy.
- 2019-2023: Faculty member of the Doctoral Program in Cognitive and Brain Sciences, CIMEC, University of Trento, Italy.
- 2019-present: CIMEC's Deputy for safety and health in the working place, 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: PhD thesis defense committee member, 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

- 2024: Scientific evaluator: European Research Council (ERC) Consolidator Grants.
- 2022: Scientific evaluator, Université Franco-Italienne, France/Italy.
- 2021: Scientific evaluator, University of Zurich, Switzerland.
- 2021: Scientific evaluator, Institut Universitaire de France.
- 2016, 2021: Scientific evaluator, Israel Science Foundation (ISF), Israel.
- 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.
- 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

- Marco Battaglia, University of Toronto, Canada.
- Christian Bellebaum, University of Dusseldorf, Germany.
- Manuela Berlingeri, University of Urbino, Italy.
- Cristina Baldoli, Pasquale A. Della Rosa, OSR, Milan, Italy.

- Valentina Bambini, IUSS, Pavia, Italy.
- Simona Brambati, Université de Montréal, Canada.
- Nicola Canessa, IUSS, Pavia, Italy.
- Zaira Cattaneo, University of Bergamo, Italy.
- Marta Ghio, University of Dusseldorf, Germany.
- Maria Teresa Guasti, University of Milan-Bicocca, Italy.
- Gabriele Miceli, CIMeC, University of Trento, Italy.
- Costanza Papagno, CIMeC, University of Trento, Italy.
- Eraldo Paulesu, University of Milan-Bicocca, Italy.

Grants and funding

- 2025-2027: DIMMI! (Regione Lombardia, “Collabora & Innova” Grant, id. 6098388, amount: 300000 €). PI: Franca Garzotto. Role: collaborator.
- 2023-2026: Longitudinal assessment of multidomain reading-free neurocognitive markers for early detection of Developmental Dyslexia (FREE-DD) (id. PRIN2022 2022TA92HS, Italian Ministry of University and Research, amount: 212500€). Role: principal investigator and project coordinator.
- 2022: Longitudinal assessment of multidomain reading-free neurocognitive markers for early detection of Developmental Dyslexia (University of Milano-Bicocca, id. 2022-ATEQC-0017, funds for a 1-year post-doc fellowship, amount: 25000 €). PI: Natale Stucchi. Role: collaborator.
- 2021-2022: University of Trento, post-doc fellowship for Seal of Excellence Marie Skłodowska-Curie Actions MSCA-IF-2020 applicants, recipient: Tudor C. Popescu, amount: 41846€. Role: supervisor.
- 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, amount: 65100€). 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, recipient: Birgit Keisker, amount: 64000€). Role: 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, recipient: Marco Battaglia, amount: 83000€). Role: head of fMRI unit.
- 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.

Peer reviewing activity
Scientific journals

- 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: Functional brain anatomy of Setting Lemma Diacritic Parameters (Training and Mobility of Researchers (TMR) Grant of the European Community (EU-FP4) through the Swiss National Science Foundation, id. 83EU-050204, amount: 128000€). Role: principal investigator.

Web of Science	Dashboard:
https://www.webofscience.com/wos/author/record/1103877	
<ul style="list-style-type: none">• Advances in Cognitive Psychology• Artificial Intelligence Review• Behavioral and Brain Functions• Bilingualism: Language and Cognition• Biolinguistics• Brain and Cognition• Brain and Language• Brain Research• Brain Research Bulletin• Brain Structure and Function• Brain Topography• Cambridge University Press• Cerebral Cortex• Child Development• 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• Imaging Neuroscience• Journal of Clinical and Experimental Neuropsychology• Journal of Cognitive Neuroscience• Journal of Neurolinguistics• Journal of Neuropsychology• Journal of Neuroscience• Journal of Psycholinguistic Research• Language and Cognition• Language, Cognition and Neuroscience• Memory and Cognition• MIT Press, Linguistics and Language Section• Nature Communications• Nature Human Behaviour• Neurobiology of Language• NeuroImage• Neuropsychologia• Neuropsychology Review• PLoS Biology• PloS ONE• Proceedings of the National Academy of Sciences, U.S.A.• Psychological Science	

Guest editorial activities

- Psychophysiology
- Scientific Reports
- Social Cognitive and Affective Neuroscience

h-index (2025, November 20)

- 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).
- Frontiers in Psychology, Reviewing Editor, 2012-2022.

- Scopus: 37
- Web of Science: 35
- Google Scholar: 45
<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)-butyrril-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., Ansaldi A.I., Perani D., Joanette 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]
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- **Tettamanti M.** Member of the Reviewing Panel, 3rd Embodied and Situated Language Processing (ESLP) Conference (www.embodiedlanguage.org), Center for Interdisciplinary Research, University of Bielefeld, Germany. August 25-27, 2011.
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- **Tettamanti M.** Member of the Scientific Committee and Discussant, 1st MODELACT Conference on Action, Language and Cognition, Rome, Italy. June 6-7, 2016.

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- 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 Convengo, 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).
- Mazzarelli 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., Codas Thompson J., **Tettamanti M.** Guarani 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, Switzerland, 2019.
- Sacheli L., Verga C., Arcangeli E., Banfi G., **Tettamanti M.**, Paulesu E. Task interactivity shapes the premotor predictive coding of a partner's action. Poster presentation at the European Workshop on Cognitive Neuropsychology 2019, Brixen, Italy.
- Sacheli L., Verga C., Arcangeli E., Banfi G., **Tettamanti M.**, Paulesu E. Task interactivity shapes action observation. Poster presentation at the 8th Joint Action Meeting 2019, Genoa, Italy.
- Bas-Hoogendam J.M., Bernstein R., Benson B., ..., Battaglia M., **Tettamanti M.**, ..., Thompson P.M., Westenberg P.M., van der Wee N.J.A., Groenewold N.A., Stein D.J., Winkler A.M., Pine D.S., on behalf of the ENIGMA-Anxiety Working Group. Structural brain correlates of childhood inhibited temperament: rationale and methodology for an ENIGMA-Anxiety mega-analysis. Online poster presentation at the 34th ECNP Congress 2021, Lisbon, Portugal.
- Beber S., Bontempi G., **Tettamanti M.**, Miceli G. Behavioral and neuroimaging evidence on semantically reversible sentence processing: focus on morphosyntactic processing and thematic role assignment. Online poster presentation at the European Workshop on Cognitive Neuropsychology 2022, Brixen, Italy.
- Ghio M., Cassone B., **Tettamanti M.** Processing emotion words in the absence of subjective awareness: an fMRI study. Poster presented at the 47. Annual Conference of Psychology and the Brain (PuG) 2022, Freiburg, Germany.
- Beber S., Bontempi G., Miceli G., **Tettamanti M.** The crucial role of left temporal regions in assigning thematic roles during sentence processing: A meta-analysis and review. Poster presented at the European Workshop on Cognitive Neuropsychology 2023 Brixen, Italy.
- Cara C., Zantonello G., Ghio M., **Tettamanti M.** Functional investigation of multiple neurocognitive deficits underlying dyslexia in adulthood. Poster presented at the 29th Annual OHBM Conference, Montreal, July 2023.

- Sala A., Ok B.A., Alnagger N., Abagnale S., Meys M., Wang Z., Bardiau M., Eickhoff S., **Tettamanti M.**, Laureys S., Gosseries O., Thibaut A., Annen J. A coordinate-based meta-analysis of brain alterations in disorders of consciousness. Poster presented at the 29th Annual OHBM Conference, Montreal, July 2023.
- Beber S., Bontempi G., Miceli G., **Tettamanti M.** Neurofunctional correlates of morphosyntactic processing and thematic role assignment. Poster presented at the 15th Annual Meeting of the Society for the Neurobiology of Language, Marseille, France, October 24-26, 2023. <https://www.neurolang.org/2023/presentation/?id=1499>.
- Beber S., Beyh A., Foulon C., Tomasi P., Terruzzi S., Bonavita J., **Tettamanti M.**, Miceli G., Forkel S. White matter correlations of sentence processing in individuals with post-stroke aphasia. Poster presented at the 30th Annual OHBM Conference, Seoul, June 2024.
- Carioti D., Loca G., Parisi C., Corigliano E., Basso G., Arosio F., Stucchi N.A., Guasti M.T., Della Rosa P.A., Berlingeri M., **Tettamanti M.** Searching for cognitive and neural biomarkers of Developmental Dyslexia: a longitudinal study on children with familial risk. Oral communication at the Annual Meeting of the Italian Society for Neuropsychology (SINP), Bologna, Italy, December 13th, 2024.
- Cara C., Canini M., Oprandi C., Pecco N., Cavoretto P.I., Candiani M., Falini A., Baldoli C., **Tettamanti M.**‡, Della Rosa P.A.‡ Resting-state functional connectivity in foetuses coupled with familial risk and prenatal speech exposure predicts early postnatal language abilities. In preparation. ‡Authors with equal contribution. Poster presented at the European Workshop on Cognitive Neuropsychology 2025 Brixen, Italy. <https://drive.google.com/file/d/18KiljkL8bdRcTJmqlseNj8IPg5WFpmDV/view>.
- Carioti D., Loca G., Parisi C., Corigliano E., Basso G., Arosio F., Stucchi N.A., Guasti M.T., Della Rosa P.A., Berlingeri M., **Tettamanti M.** Searching for cognitive and neural biomarkers of Developmental Dyslexia: a longitudinal study on children with familial risk. Poster presented at the European Workshop on Cognitive Neuropsychology 2025 Brixen, Italy. <https://drive.google.com/file/d/1JJx7V3NbzAExAos6n0xnRYpONphB79VQ/view>.

Honors & Awards

- Bonandrini R., **Tettamanti M.**, Luzzatti C. Probabilistic projection of cognitive functions through the human callosum. NeuroMI, Milan, Italy, October 16, 2025. *Best poster award*.

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,

Germany, 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 on Embodied and Situated Language Processing (ESLP), Saarland University, Saarbruecken, 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 of Milan-Bicocca, Italy, December 9 and 16, 2013.
- **Tettamanti M.** Embodiment versus Disembodiment: conceptual-semantic representations and their modulation by syntactic negation. Associazione

Italiana per le Scienze Cognitive (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, 2018. <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.
- **Tettamanti M.** Early typical and atypical development of language processing abilities. CReSCo Seminars, University of Trento, Italy, December 14, 2021.
- **Tettamanti M.** The neurodevelopmental brain readiness for language processing. Current Topics and Frontiers in Neurolinguistics, University of Pavia, Italy, May 11, 2023.
- **Tettamanti M.** Syntax and supramodality. Syntax meets the brain symposium, IUSS, Pavia, Italy, July 14, 2023.
- **Tettamanti M.** Tracking prenatal brain development for the early prediction of postnatal language abilities. DIMET Workshop, Ph.D. Program in Translational and Molecular Medicine, University of Milano-Bicocca, Monza, Italy, January 18, 2024.
- **Tettamanti M.** Tracking prenatal brain development for the early prediction of postnatal language abilities. LALP Lab Seminar, NTNU, Trondheim, Norway, April 24, 2024.
- **Tettamanti M.** Early prediction of reading and language abilities from prenatal and postnatal neurocognitive development. 6th Workshop of the Edulang Network, NTNU, Trondheim, Norway, April 11, 2025.
- **Tettamanti M.** Machine learning and multivariate techniques for neuroimaging data analysis. Summer school in Explainable, Trustworthy and Robust Artificial Intelligence, Como, Italy, September 10, 2025.
- **Tettamanti M.** The role of AI for fMRI data interpretation. NeuroMI, Milan,

Italy, October 16, 2025.

- **Tettamanti M.** Early prediction of language abilities from prenatal and postnatal neurocognitive developmental trajectories. ConSOLE34, Pavia, Italy, January 28, 2026. *Keynote speaker*.

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-espatiati/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_creò_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”. Broadcasted on March 30 and April 2, 2020. (<https://www.youtube.com/watch?v=46gmOgTRRaU&feature=youtu.be>).
- **Tettamanti M.** Il Cervello Sintattico. Lingua Italiana, Treccani Magazine, April 1, 2021. https://www.treccani.it/magazine/lingua_italiana/articoli/scritto_e_parlato/cervello3.html
- **Tettamanti M.** Contributor of “Penne Amiche della Scienza” (<https://sites.google.com/view/penne-amiche-della-scienza/home>), since 2021.
- TV RAI 1 “Uno Mattina”, Featuring of the article “Beber S., Capasso R., Maffei C., **Tettamanti M.**, Miceli G. Distinct neural correlates of morphosyntactic and thematic comprehension processes in aphasia. Brain Communications, 7(2), fcaf093 (2025)”, broadcasted on April 9, 2025.

Techniques and skills in molecular biology

- Drosophila classical and molecular genetics.
- P[GAL4] enhancer-trapping.
- Histological 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, Psycho-physiological interactions, (Resting State-) Functional Connectomics, Graph Theory.
- Independent Component Analysis and other model-free analyses.
- Multi-voxel pattern analysis and representation similarity analysis (PyMVPA, CoSMo, PRoNTo).
- 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.
- NiPpreps tools: MRIQC, fMRIPrep.
- 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.