

# University Academic Curriculum Vitae - short version

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Name: **Sabrina Beber**  
Contact: **sabrina.beber@unibz.it**

Education since  
leaving school

2024: **PhD in Cognitive and Brain Sciences** (Center for Mind/Brain Sciences - University of Trento);

PhD's Thesis: *The neurofunctional correlates of sentence processing: focus on difficulties of morphosyntactic processing and thematic role assignment in aphasia.*

Co-Supervisors: Prof. Marco Tettamanti and Prof. Gabriele Miceli.

2017: **Master's degree in Psychology - Neuroscience** with 110/110 cum laude (Department of psychology and cognitive science - University of Trento);

Master's Thesis – Experimental research: *The neuroanatomy of sentence comprehension: an investigation on reversible sentences in people with aphasia.*

Supervisor: Prof. Gabriele Miceli.

2015: **Bachelor's degree in Cognitive psychology and psychobiology** (University of Padua);

Bachelor's Thesis – Experimental research: *Altered linguistic lateralization in patients with major depression: study of alpha, beta and delta EEG bands.*

Supervisor: Prof. Alessandro Angrilli.

Professional  
experience

From-to:	What:	Institution:
October 2024-ongoing	Postdoctoral Research Fellow	Free University of Bolzano and NOI-Tech-Park (Italy)
October 2024-ongoing	Teaching "Developmental and Educational Psychology (lab.)"	Free University of Bolzano (Italy)
2023-2024 (in-person from February to July 2023 and then remotely)	Research period abroad with Dr. Stephanie J. Forkel	Donders Institute for Brain, Cognition, and Behaviour at the Radboud University (Netherlands)
2021-2022 (1 year)	PhD Intern	Villa Rosa Hospital, Pergine Vals. - Neurological Rehabilitation Unit - Azienda Provinciale per i Servizi Sanitari della Provincia Autonoma di Trento (Italy)
2019	Research fellow holder	Center for Mind/Brain Sciences - University of Trento (Italy)
2018-2019 (1 year)	Professional postgraduate internship required for eligibility to take the State Examination for Psychologist qualification (Section A of the Italian professional register)	San Maurizio Hospital, Bolzano - Psychology and Neuropsychology Unit - Azienda Sanitaria della Provincia Autonoma di Bolzano (Italy)
2017-2018	Research intern with Prof. Gabriele Miceli (Cognitive Neuroscience of Language Group)	Department of Psychology and Cognitive Sciences - University of Trento (Italy)
2015	Research intern with Prof. Chiara Spironelli (PSYchoPHYsiology Lab)	University and Hospital of Padova (Italy)

Presentations and participations

Presentations at scientific conferences/events:

"White matter correlations of sentence processing in individuals with post-stroke aphasia" **Beber, S.**, Beyh, A., Foulon, C., Tomasi, P., Terruzzi, S., Bonavita, J., Tettamanti, M., Miceli, G., Forkel, S.; **International Conference of the Organization for Human Brain Mapping (OHBM)**; June 23-27, 2024, Seoul (South Korea); poster presentation

"The neural correlates of thematic and morphosyntactic comprehension disorders in aphasia" **Beber, S.**, Capasso, R., Maffei C., Tettamanti, M., Miceli, G.; **European Workshop on Cognitive Neuropsychology (EWCN)**; January 22-26, 2024; Bressanone – BZ (Italy); poster presentation

"Neurofunctional correlates of morphosyntactic processing and thematic role" **Beber, S.**, Bontempi, G., Miceli G., Tettamanti; **Annual Meeting of the Society for the Neurobiology of Language (SNL)**; October 24-26, 2023; Marseille (France); poster presentation

"Neurofunctional correlates of sentence processing: focus on morphosyntactic processing and thematic role assignment" **Beber, S.**; June 8, 2023; **Donders Institute, Nijmegen** (Netherlands); talk - oral presentation

"BLG - Neurofunctional correlates of sentence processing" **Beber, S.**; **Center for Mind/Brain Sciences Seminar**; April 6, 2023; Virtual and in Rovereto (Italy); oral presentation

"MRI and Lesion data" **Beber, S.**; **Brain Hack – Language and Communication**; May 21-24, 2023; Nijmegen (Netherlands); oral presentation

"The crucial role of left temporal regions in assigning thematic roles during sentence processing: A meta-analysis and review" **Beber, S.**, Bontempi, G., Miceli, G., M. Tettamanti; **European Workshop on Cognitive Neuropsychology (EWCN)**; January 22-27, 2023, Bressanone - BZ (Italy); poster presentation

"Behavioral and neuroimaging evidence on semantically reversible sentence processing: focus on morphosyntactic processing and thematic role assignment" **Beber, S.**, Bontempi, G., M. Tettamanti., Miceli, G.; **European Workshop on Cognitive Neuropsychology (EWCN)**; January 23-28, 2022, Virtual; oral and poster presentation

"PhD project" **Beber, S.**; **Doctoral Student Day**; January 28, 2021, Center for Mind/Brain Sciences (University of Trento, Italy); poster presentation

"PhD project" **Beber, S.**; **Doctoral Student Day**; January 23, 2020, Center for Mind/Brain Sciences (University of Trento, Italy); poster presentation

"Neurofunctional correlates of auditory and visual sentence comprehension: Evidence from aphasia" **Beber, S.**, Capasso, R., Miceli, G.; **International Science of Aphasia Conference (SoA)**; September 23-26, 2019, Roma (Italy); flash oral and poster presentation

"The neurofunctional correlates of sentence comprehension: Evidence from aphasia" **Beber, S.**, Capasso, R., Maffei C., Miceli, G.; **International Conference of the Organization for Human Brain Mapping (OHBM)**; June 9-13, 2019, Roma (Italy); poster presentation  
Participations at scientific conferences/events:

"Conference Brain Matters – Connectivity concepts in neuronal network modelling (Human Brain Project)"; February 13-14, 2023; Vienna (Austria) and Virtual

"Network. Behaviour. Recovery: Understanding changes in connectivity after stroke"; February 3-4, 2023; Freiburg (Germany) & Virtual

"Sixth Annual World Conference on Brain Mapping (IamBrain)"; April 1-3, 2022; Virtual

**"Think Open Symposium - Power analysis for Neuroimaging";** November 18, 2021; Rovereto (Italy)

**"Think Open Symposium - La Scienza Aperta nelle applicazioni cliniche";** June 17, 2021; Virtual

**"Open Science Seminar - Open Science, a new perspective for research evaluation";** February 18, 201; Virtual

**"Brain imaging Course";** Swiss Federation of Clinical Neuro-Societies (SFCNS); October 26, 2019; Lausanne (Switzerland)

**"Lesion Analysis Workshop. Theory and practical application of modern statistical lesion analysis";** Universitätsklinikum Tübingen, Neurologische Klinik; April 12-13, 2019, Tübingen (German)

**"Ruolo della risonanza magnetica convenzionale e avanzata nella diagnosi e prognosi delle principali patologie neurologiche"; Congresso nazionale della Società Italiana di Neurologia (SIN) -** October 27- 30, 2018; Roma (Italy)

Courses during my PhD (in Italy and Netherlands):

- Methods: EEG
- Methods: MEG
- Teaching training and dissemination of scientific knowledge
- Machine Learning for Neuroimaging Data Analysis
- Python for Data Analysis and Machine Learning
- Elan, spoken language annotation and transcription
- Data Science: R
- High-Performance Computing
- Server crash
- Project design and writing
- Figures and posters
- Data visualization
- Writing, how to respond to reviewers
- Funding opportunities and how to apply

## Teaching

Teaching "Developmental and Educational Psychology (lab.)" at the University of Bolzano (Italy); Teaching language: English; Years 2024-2025

Tutor of 3 master's students in the Lab rotation at Radboud University (Netherlands). Year: 2023

Tutor of 2 master's students in the Master's Degree Internship in Psychology - Neuroscience at the University of Trento (Italy). Years: 2021-2022

Co-supervisor of 4 master's students at the University of Trento. Years: 2021-2022-2023

Member of the master's degree commission in the Linguistic Sciences of the University of Bologna; March 19, 2021

Assistant for the following exams at the University of Trento: Neurology; Neuropsychological Rehabilitation. Years: 2019-2022

## Other academic responsibilities

Neuroccino (weekly journal club) on YouTube, Years 2023-2024: moderator, speaker and active participant

Clinical Neuroanatomy Seminars on YouTube, Jun 2023: moderator

Brown Bag meetings (weekly event), Years: 2021-2022: moderator and organizer

Library of the Center for Mind/Brain Sciences, Years: 2020-2021: organizer

Christmas Show of the Center for Mind/Brain Sciences, Year: 2019: organizer

## Memberships

Member of the Ordine degli Psicologi - Italian professional register (Sezione: A) – Italy.

ORFARO Research Group – "Automatic optimal-reward-frequency selection by arousal estimation and optimization for the enhancement of ILF neurofeedback treatments" – Free University of Bolzano and NOI-Tech-Park (Italy)

2019-2024

- Organization of Human Brain Mapping (OHBM)  
<https://www.humanbrainmapping.org/>
- Organization of Human Brain Mapping (OHBM) Alpine Chapter  
<https://www.humanbrainmapping.org/i4a/pages/index.cfm?pageid=3823>
- Society for the Neurobiology of Language (SNL)  
<https://www.neurolang.org/>
- Science of Aphasia (SoA)  
<https://soaphasia.com>

Research groups and teams:

- Cognitive Neuroscience of Language Group  
<https://www.cimec.unitn.it/en/521/cognitive-neuroscience-of-language-group>
- Brain and Language Group  
<https://www.cimec.unitn.it/en/744/brain-and-language-group>
- Stephanie Forkel Team  
<https://www.stephanieforkel.com/team>
- Brain Connectivity and Behaviour Laboratory  
<https://storage.googleapis.com/bcblabweb/index.html>

## Research grant and scholarships

Date granted:	Funding body:	Title:
2023-2024	Donders Institute for Brain, Cognition, and Behaviour	Donders Mohrmann Fellowship – Nijmegen (Netherlands) for 1 year and 6 months
2023	University of Trento	Increase of the Doctoral scholarship for 6 months
2019	Ministero dell'Università e della Ricerca (MUR)	Doctoral scholarship for 4 years funded by the Department of Excellence (Law 232/2016) on " <i>Advanced neuroimaging methods for the study of human cognition</i> " – Ministero dell'Università e della Ricerca MUR (Italy)
2018	Fondazione Caritro	Research Grant for Young Researchers (Italy), for a duration of 1 year and 6 months
2018	University of Trento	Merit Award for Master's Path & Degree in Psychology - Neuroscience

Publications	<p><b>Beber, S., Capasso, R., Maffei, C., Tettamanti, M., Miceli, G. (2025).</b> Distinct neural correlates of morphosyntactic and thematic comprehension processes in aphasia. <i>Brain Communications</i>, 7(2), fcaf093. <a href="https://doi.org/10.1093/braincomms/fcaf093">https://doi.org/10.1093/braincomms/fcaf093</a></p> <p><b>Beber, S., Bontempi, G., Miceli, G., &amp; Tettamanti, M. (2024).</b> The Neurofunctional Correlates of Morphosyntactic and Thematic Impairments in Aphasia: A Systematic Review and Meta-analysis. <i>Neuropsychology Review</i>, 1-34. <a href="https://doi.org/10.1007/s11065-024-09648-0">https://doi.org/10.1007/s11065-024-09648-0</a></p> <p><b>Beber, S. (2024).</b> The neurofunctional correlates of sentence processing: focus on difficulties of morphosyntactic processing and thematic role assignment in aphasia. <i>Iris</i> <a href="https://hdl.handle.net/11572/418870">https://hdl.handle.net/11572/418870</a></p> <p><b>Beber, S. (2020).</b> La ricerca nelle case di tutti. <i>Breaking Talks – Fondazione Caritro</i>.</p> <p><b>Beber, S., Capasso, R., Miceli, G. (2019).</b> Neurofunctional correlates of auditory and visual sentence comprehension: Evidence from aphasia. <i>Stem-Spraak-en Taalpathologie</i>, 24:50-54. <a href="https://hdl.handle.net/11572/317731">https://hdl.handle.net/11572/317731</a></p> <p><b>Beber, S. (2017).</b> <i>Correlati neuroanatomici della comprensione di frasi reversibili: uno studio in persone con afasia</i>. University of Trento Library. 0707H-586 <a href="https://webapps.unitn.it/Biblioteca/it/Web/TesiCorso/0707">https://webapps.unitn.it/Biblioteca/it/Web/TesiCorso/0707</a></p>
Development and Innovation	Development of a new linguistic battery for the analysis of linguistic processes in sentence comprehension and production (and single-word processing).
Language competence	Italian (mother tongue); English; German

March 2025