

Professional Statement

Motivated and research-driven graduate student completing two Master's degrees one in Psychology and one Neuroscience, at the University of Geneva. Extensive training in behavioral science, neuroimaging (fMRI, EEG), and data analysis (R, Python). My academic journey reflects a commitment to a comprehensive understanding of the intersection between these disciplines.

Skilled in designing and managing experiments using tools like Qualtrics, Lab.js, and PsychoPy. Proven ability to lead projects from conception through data analysis to publication and experienced in mentoring junior team members.

Strong communicator with leadership experience in student organizations, adept at public speaking, event coordination, and strategic planning. Passionate about advancing in cognitive developmental and neuroscience research for applying evidence-based tools to enhance the life of the young.

Core Skills

- Experimental Design & Execution
- Neuroimaging: fMRI, EEG and MEG
- Statistical Analysis: R and Python
- Data Management & Processing
- Project Coordination & Team Training
- Scientific Communication
- Tools: PsychoPy, Lab.js, Qualtrics

Publication

- ❖ Vergauwe, E., **Senziani, K.**, & Zaugg, M. (2025). *Mieux comprendre la mémoire pour booster l'apprentissage : Trois leçons à retenir*. L'Éducateur, no 5, pp. 10–11.
- ❖ Loaiza, V. M., **Senziani, K.**, Bartsch, L. M., & Mizrak, E. (2025). What makes a birdbrain tick: Long-term memory drives expertise effects on working memory binding. *Psychology and Aging*.
<https://doi.org/10.1037/pag0000952>

Education

- **Master of Science in Interdisciplinary Neuroscience** | University of Geneva | Sep 2023 – Aug 2025
- **Master of Science in Advanced Research in Psychology** – Development and Cognitive orientations | University of Geneva | Sep 2022 – April 2025
- **Complementary Certificate in Educational Sciences** | University of Geneva | Feb 2021 – June 2023
- **Bachelor of Science in psychology** | University of Geneva | Sep 2018 - Aug 2022

Research experience

Research Assistant –Neurolingo Lab

University of Geneva | Sep 2025 – Ongoing

PI/Supervisor: Prof. Nina Kazanina

- Coordination of recruiting and testing for a magnetoencephalography experiment.
 - Trained and supervised master's students in experimental procedures and participant handling.
 - Extended this pipeline with new analyze.
 - Process and analyze the MEG data
 - Write the analyze report and conduct a literature review
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Master Thesis (fMRI Study on Navigation Strategies)

University of Geneva | Sep 2023 – Aug 2025

Supervisor: Jie Song | **PI:** Prof. Ilaria Sani

- Investigating the neural correlates of egocentric vs. allocentric navigation using functional MRI.
 - Designing and executing fMRI experiments to identify activity patterns linked to spatial strategies.
 - Responsible for participant coordination, data collection, and data preprocessing.
 - Utilized tools such as SPM, and Python for fMRI analysis; wrote a master thesis.
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Master Thesis (Effects of Gamma Oscillations on Learning)

University of Geneva | Sep 2022 – Apr 2025

Supervisor: Prof. Evie Vergauwe

- Independently led a behavioral study on gamma oscillations and learning in children and young adults.
 - Employed experimental designs incorporating behavioral measurements and educational task performance.
 - Oversaw the full research process: conceptualization, design, ethics, data collection, and analysis.
 - wrote a master thesis.
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Research Assistant – Working Memory and Cognition Lab

University of Geneva | Oct 2024 – May 2025

Supervisor: Dr. Christina Lutz | **PI:** Prof. Evie Vergauwe

- Assisted in experiment development and implementation in PsychoPy.
 - Trained and supervised master's students in experimental procedures and participant handling.
 - Coordinated documentation, informed consent, and database creation.
 - Actively involved in testing sessions and quality assurance of data collection procedures.
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Research Intern – EEG/BCI/Neurofeedback in ADHD

University of Geneva | Oct 2024 – Apr 2025

Supervisor: Dr. Abele Michela | **PI:** Dr. Tomas Ros

- Participated in EEG data collection.

- Ensured high-quality EEG data capture and signal preprocessing.
 - Supported statistical analysis using EEGLAB and MATLAB contributed to preliminary results interpretation.
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Research Assistant – Working Memory, Cognition and Development

University of Geneva | Mar 2024 – May 2024

Supervisor: Dr. Naomie Langerock

- Organized experimental materials and participant schedules for working memory studies.
 - Conducted hands-on data collection with adult participants.
 - Provided data entry support and documentation tracking for publication purposes.
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Research Intern – Learning & Development Lab

University of Sheffield | Sep 2023 – Jan 2024

Supervisor: Dr. Vanessa Loaiza

- Led study design and stimulus creation using Lab.js for novel working memory experiments.
 - Recruited and tested participants (adults across age groups); managed experiment timeline.
 - Conducted statistical analysis and cognitive modelling in R; co-authored manuscript
 - Represented the lab at outreach activities and academic seminars.
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Research Assistant – Working Memory and Cognition Lab

University of Geneva | Sep 2022 – May 2023

Supervisor: Dr. Nora Turoman | **PI:** Prof. Evie Vergauwe

- Managed logistics of study sessions, including creation of experimental documents and tasks.
 - Collected behavioral data from young adult participants; ensured ethical compliance.
 - Entered and cleaned data using Excel and R; maintained secure, organized database backups.
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Research Assistant – Life Course Vulnerability Studies ([Centre interfacultaire de Gérontologie et d'études des vulnérabilités \(CIGEV\)](#))

University of Geneva | Jun 2021 – Jun 2022

Supervisor: Dr. Maximilian Haas | **PI:** Prof. Matthias Kliegel

- Supported longitudinal aging research under the Swiss NCCR LIVES project.
 - Conducted literature reviews and drafted presentation materials for internal seminars.
 - Organized and executed participant surveys; assisted with based data analysis.
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Research Project – Job4You Cognitive Training Project ([Centre interfacultaire de Gérontologie et d'études des vulnérabilités \(CIGEV\)](#))

University of Geneva | Apr 2019 – May 2021

Supervisor: Dr. Doriana Tinello | **PI:** Prof. Matthias Kliegel

- Developed and implemented online cognitive training modules in Qualtrics.

- Designed visual stimuli and tested cognitive task functionality.
- Managed databases and experimental documents; played a key role in cross-functional team collaboration.
- Supported the lab's operational workflows, including scheduling, documentation, and reporting.

Outreach

Poster Presentation – NeuroMaster's Day, Geneva | Apr 2025, May 2024

Poster Presentation – Swiss Society for Neuroscience (SSN) Annual Meeting | Feb 2025

Additional

Associative activities

Student's Association of Psychology (ADEPSY), University of Geneva

- President | May 2024 – May 2025
- Faculty Policies Manager | Sep 2023 – May 2024
- Project Manager & Podcast Manager | Sep 2020 – Dec 2022
- Active Member | Dec 2022 – Sep 2023

Council of Associations of Psychology and Educational Sciences (CAPSE)

- President | Since May 2024

Hobbies & Interests

- Taking online courses to satisfy my curiosity in many topics like economics, chemistry, biology, management, neuroscience, and psychology.
- Making puzzles gives me the opportunity to improve my capabilities related to reflection and thinking out of the box.

Languages

Mother tongue: French

Other languages: English, advanced (C1, IELTS : 7,5) ; German, knowledgeable