

# Veronika Gambin, MSc

Neuroscientist | Sleep and Learning Research

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## PROFESSIONAL SUMMARY

Experienced Neuroscientist with 6 years of expertise in sleep and wake brain research focusing on neuroimaging. Proven track record in designing and implementing complex research paradigms. Skilled in advanced biosensor technologies, behavioural assessments, and data analysis. Efficient in collaborating on multidisciplinary projects and presenting findings at international-level conferences. Strong background in managing long-term studies with pediatric and adult populations, focusing on sleep-wake regulation and cognitive processes. Proficient technical skills in EEG, GSR, EMG, eye-tracking, Python, MatLab, and statistical software. Committed to advancing neuroscience through innovative research.

## SKILLS

**PROFESSIONAL SKILLS** Study Design | Critical Thinking | Research | Data Analysis  
Presentation Skills | Teamwork | Self-Management | Analytical skills

**TECHNICAL SKILLS** Electroencephalography | Polysomnography | GSR | EMG | ECG  
Eye-tracking | Python | MatLab | R Studio | MS Office | Statistics

## LANGUAGES

English - C1 (IELTS) | French - B2 (DELF) | Ukrainian - native | Russian - native

## WORK EXPERIENCE

### Junior Researcher

Traffic Medicine, University of Zurich

Oct 2024 - Current

Zurich, Switzerland

- Validation of a novel driving simulation-based Maintenance of Wakefulness Test
- Organisation of clinical study. Writing and submission of ethical protocols for clinical studies.
- Implementation of driving simulation scenarios in scientific research
- Project funding and grant application.
- Skilled in data science, machine learning, polysomnography, eye-tracking, and EMG.

### Neuroscience Consultant (Freelancer)

Wayvee

Feb 2024 - Apr 2024

Zurich, Switzerland

- Developed a complete experimental design and implementation of multimodal biosensor streams for business application technology.
- Established validation protocol for real-time customer satisfaction technology, launched with \$5M in pre-seed funding.
- Analysed large-scale biosensor and behavioural data.
- Skilled in eye-tracking, GSR, and EMG.

### Research Assistant

Reto Huber's Lab, University of Zurich

Child Development Center, University Children's Hospital Zurich

Apr 2022 - Oct 2024

Zurich, Switzerland

- SNFS funding of 85.000 CHF (Grant N° 179443).

- Collected pediatric dataset of in-lab hd-EEG recordings.
- Studied sleep and learning processes in healthy children and patients with epilepsy.
- Clarified the correlation between learning processes and sleep across development.
- Performed behavioural and physiological assessments across different ages.
- Analysed and prepared data for international conferences.
- Skilled in study design and cross-disciplinary research.

### **Research Assistant**

Laboratory of Behavioural Neurodynamics

Jan 2019 - Mar 2022

Saint Petersburg, Russia

- Collaborated with principal investigators to coordinate qualitative research into the psychophysiology of speech (new paradigms of fast mapping theory).
- Performed data processing in BrainVision Analyzer.
- Utilised varied statistical methods and software for data analysis and visualisation (Matlab, R, SPSS, Statistica).
- Prepared literature overviews for new projects.
- Presented findings at multiple international and state conferences.
- Skilled in hd-EEG recording, behavioural assessment (Wechsler IQ test, associative learning task)

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## **EDUCATION**

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### **Master of Science: Biology (Neuroscience)**

University of Zurich

Feb 2023 - Nov 2024

Zurich, Switzerland

- Thesis: Auditory evoked potentials elicited by closed-loop stimulation during sleep in children and adults.
- Skilled in human neural culture preparation, RT-PCR, immunofluorescence, western blotting, confocal microscopy, and calcium imaging.

### **Invited Visiting Student: Medicine**

University of Zurich

Apr 2022 - Feb 2023

Zurich, Switzerland

- Conducted research on sleep disorders in young children.
- Investigated the effect of epilepsy on circadian and metabolic sleep rhythms in children.
- Skilled in polysomnography, electroencephalography, and behavioural assessment.

### **Master of Science: Biology (Neurobiology)**

(no degree earned)

Saint Petersburg State University

Sep 2021 - Apr 2022

Saint Petersburg, Russia

- Full state scholarship.
- Skilled in electroencephalography, event-related potential, magnetoencephalography, and transcranial magnetic stimulation.

### **Bachelor of Science: Biology (Neurobiology)**

Saint Petersburg State University

Sep 2017 - Jul 2021

Saint Petersburg, Russia

- Thesis: Electrophysiological correlates of associative learning of novel native word forms in preschool children.
- Minored in cytology and histology.

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## TEACHING

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### **Teacher in Biology**

Maximum

Apr 2021 - Jul 2022

Saint Petersburg, Russia

- Prepared 15 high-school students for the national biology exam with average grades in the top 10% tier in the country.
- Prepared ten middle-schoolers for final exams in biology with average results in the top 15% tier on the regional level.
- Personal development advisor for high- and middle-school students.