

Nanevie AMEGASSI

Graduate in Cognitive Science with an interest in
Cognitive Modeling and Educational Neuroscience

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Research Interests

Adaptive Learning Systems for Neurodiverse Students (ASD, ADHD), Neurocognitive Mechanisms in Educational Contexts, Cognitive Modeling for Intervention Design, Educational Technology for Accessibility, Open Science and Reproducibility.

Education

- 10/2024 – 05/2025 **Diplôme Universitaire in Disabilities and ASD**, University of Lorraine, Nancy, France
Focus: Analysis, Support, and Prevention of "Problem Behaviors"
- 09/2023 – 07/2024 **Master's Degree in Cognitive Sciences**, Grenoble Institute of Technology, Grenoble, France
Focus: Natural and Artificial Cognition
- 11/2017 – 12/2019 **Master's Degree in Computer Engineering**, Cheikh Anta Diop University, Dakar, Senegal
Focus: Video Games, Digital Interaction, and Big Data
- 09/2015 – 07/2017 **Bachelor's Degree in Applied Computer Science for Management**, Groupe ISM, Dakar, Senegal
Focus: Software Engineering - Networks and Systems

Research Experience

- 02/2024 – 07/2024 **Intern**, Université Grenoble Alpes, Grenoble, France
 - Conducted research on algorithmic cognitive models focusing on scientific reproducibility.
 - Simulated Bayesian Models of Reading to assess the impact of new parameters on performance.
 - Performed data analysis and visualization using Python to validate hypotheses.
 - Presented findings and provided methodological recommendations to enhance research processes.
- 04/2019 – 10/2019 **Intern**, École Supérieure Polytechnique de Dakar, Dakar, Senegal
 - Analyzed EEG data using MATLAB to identify patterns indicative of epileptic events.
 - Developed machine learning models for classifying epileptic events from EEG signals.
 - Applied signal processing techniques to preprocess and extract features from EEG data.
 - Collaborated with biomedical engineers, enhancing interdisciplinary communication.

Industry Experience

- 01/2020 – 07/2023 **Freelance/Consultant Software Engineer**, Elisee Amegassi, Various Location
 - Provided software engineering and consulting services to diverse clients in Togo and Senegal.
 - Collaborated with developers, project managers, designers, and stakeholders to complete projects.
 - Worked with a variety of technologies, including Java, Python, Node.js, and React.js.
 - Engineered data management systems integrating REST and GraphQL APIs to streamline data flow.
 - Automated data workflows using Python, Bash, and SQL for data heavy applications.
 - Tested and maintained applications with a focus on reliability, performance, and security.
 - Notable clients included Quadra AO, Altech Software, Dashmake and Groupe Idyal.

Professional Development

- 11/2024 **Open Science 101 Course**, NASA x Neuromatch Academy
- 10/2023 **ISRC-CN3 Autumn School**, Ulster University
- 07/2023 **Computational Neuroscience Summer School**, Neuromatch Academy

Skills

- Cog. Sci. Research** Designing experiments using PsychoPy and OpenSesame; basic experience with Unity
- Programming** Proficient in Python and JavaScript; some experience with MATLAB and R
- Machine Learning** Building ANN models with PyTorch; implementing classical ML algorithms using scikit-learn
- Data Analysis & Viz** Competent with NumPy, SciPy, and StatsModels; creating visualizations with Plotly and Seaborn
- Open Science Practices** Familiar with FAIR principles; using Git, GitHub, Zenodo and Docker for reproducible workflows

Languages

French Native proficiency

English Bilingual proficiency