ALI VINCENT AL-AZEM

Mathematics Graduate | Research Engineer

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in avalazem

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EXPERIENCE

Co-Author

École Normal Supérieure

Jun 2025 - Present

Paris

 Co-authoring a paper on the role of syllable structure in early language acquisition. Designed and implemented a data pipeline using the IPA-CHILDES database to analyze syllable composition and frequency across 31 languages, grounded in phonetic and typological principles.

Research Internship

École Normal Supérieure

Laboratoire de Sciences Cognitives et Psycholinguistique (LSCP)

Nov 2024 - May 2025

Pari

- Designed and implemented an fMRI paradigm to investigate brain regions involved in word processing. Performed extensive cross-linguistic stimulus selection and categorization.
- Conducted fMRI data acquisition at NeuroSpin and developed a preprocessing and analysis pipeline using Nilearn.
- Partnered with a computational team to train deep neural models on phonetic data, simulating human word repetition and probing the cognitive and neural mechanisms behind language processing.

Undergraduate Research Initiative

UCLA

Jul 2022 - Aug 2022

Los Angeles

- Studied on the effect of generalized alcohol use on memory recollection as part of an ongoing meta-analysis on UCLA undergraduate students.
- Analyzed mitochondrial DNA using sequencing techniques (e.g., PCR, BLAST) to study the geographical spread of haplogroups and current migration patterns.

PUBLICATIONS

Conference Posters

• Al-Azem, A., Chemla, E., Zhan, M., Pallier, C., and Lakretz, Y., "Mapping single word processing onto brain dynamics," in *ICCL*, Paris, 2025.

EDUCATION

M1 Mathématiques et Applications Sorbonne Université

Sep 2023 - Jun 2024

B.Sc. Mathematics, Regents' Scholar UCLA

🗖 Sep 2019 - Jun 2021

SKILLS

Python C/C++ Git Expyriment

Self-Motivated

Open-Minded

Team Player

LANGUAGES

English (native)

French



REFEREES

Yair Lakretz

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