ALIZEE WOUTERS

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EDUCATION

Georgia Institute of Technology and Emory University | Atlanta, Georgia

- *M.S. in Biomedical Engineering, Specialization in Neuroengineering* — Expected June 2027

University of California - Los Angeles, California

- *B.S. in Cognitive Science, Specialization in Computing; Minor in Data Science Engineering | GPA: 3.9* — June 2026
- Honors: UCLA College Honors Program; PBK, ALD, & PES Honor Societies; Dean's Honors List; Rose Gilbert Memorial Scholar
- Certifications: Neuroscience & NeuroTech Credential, Queen's University, Canada

RESEARCH EXPERIENCE

CruX - UCLA Neurotechnology Organization — Sept 2023 - June 2026

BCI Team Lead | NTX Competitor | External Affairs Coordinator | Co-Head of Consulting

- Developed EEG/GSR-based BCIs integrating neural signal processing with CNN/LSTM models for cognitive state decoding, emotion classification, and motor control; presented findings at California Neurotechnology Conference ‘23, ‘24, ‘25, ‘26.

Dr. Tyler Clites' Anatomical Engineering Group, UCLA — Mar 2025 - June 2026

Research Assistant & Independent Researcher

- Used Vicon motion capture to analyze proprioception in referred muscle control and developed a multi-DOF soft robotic system integrating EMG acquisition and processing with real-time device control to study agonist-antagonist muscle pairs
  Poster: "A Pilot Study on the Impact of Proprioception on Referred Control." *Neural Control of Movement, 2025.*
- Evaluated electromagnetic suspension of transfemoral prostheses using Vicon motion capture
  Publication: "Electromagnetic Suspension of Transfemoral Prostheses" (November 2026)

Dr. Zili Liu's Perceptual Processing & Computation Lab, UCLA — Mar 2024 - Dec 2024

Research Assistant | Project Lead | Lab Manager

- Contributed to literature review, pilot study design, and manuscript preparation for a published study

WORK EXPERIENCE

SynterMed, UCLA Health - Los Angeles, CA — May 2026 - Present

Neuronuclear Medicine and Imaging Consultant

- Conduct quantitative FDG and tau PET research using NeuroQ and ADNI datasets to validate neuroimaging software and investigate image-processing and quantification discrepancies
- Collaborate with physicians and software engineers to troubleshoot clinical neuroimaging workflows, investigate software and processing issues, and communicate technical findings across teams, while supporting a patient-facing mobile PET clinic

Braave - Los Angeles, CA — Nov 2025 - Dec 2025

R&D Consultant

- Developed biological sensor integration methods for Braave's wearable product line for clinical trials

Psyonic - San Diego, CA — Jun 2024 - Jul 2024

Mechatronics Intern

- Designed and executed repeatable hardware testing protocols for the Ability Hand bionic prosthesis with an upper-limb amputee, translating user feedback and device performance into testing criteria

Autonomous Living Technologies - San Diego, CA — Aug 2024- Sept 2024

Assistive Technology Intern

- Trained students with quadriplegia to use Cato motion-based computer access systems, adapting assistive technology use to individual functional and vocational needs

UCLA Residential Life Learning Centers - Los Angeles, CA — Aug 2023 - June 2026

MakerSpace Technician

- Trained users on equipment and troubleshot technical issues across 3D printers, laser cutters, and electronics assembly

SKILLS

Programming & Data Science: Python, MATLAB, C++, R; Machine Learning, Neural Networks, Data Analysis, Bioinformatics
Neuroengineering: BCI Systems, EEG, EMG & GSR Acquisition, Signal Processing & Classification, Neuroanatomy, Neuroimaging
Biomedical Engineering: Medical Device Testing, Bionic Systems, Medical Robotics, Imaging, Vicon, Prototyping, Electronics
Clinical: Patient Interaction, Research, Physician Collaboration, Patient-Centered Design, Technical Troubleshooting, User Training