Elene Kapanadze

MD Candidate (expected summer 2027) · Petre Shotadze Tbilisi Medical Academy

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ekapanadze.github.io/Enigmaadhd Nationality: Georgian

RESEARCH INTERESTS

Non-invasive neuromodulation · Computational psychiatry · Biomarkers for psychiatric disorders · Neuroimaging

EDUCATION

Doctor of Medicine (MD) 2021 - summer 2027 (expected)
Petre Shotadze Tbilisi Medical Academy, Faculty of Medicine, Tbilisi, Georgia
Six-year integrated medical programme, 360 ECTS.

RESEARCH EXPERIENCE

Volunteer Research Assistant - Department of Brain Ultrastructure and Nanoarchitecture Apr 2025 - present
Ivane Beritashvili Center of Experimental Biomedicine, Tbilisi · supervised by Dr. Nino Pochkhidze

- Animal research on the effects of addictive substances on brain structure and behaviour.
- Observe and record animal behaviour during experimental sessions.
- Assist during transcardial perfusion, brain extraction and tissue preparation for sectioning.

Independent Computational Project - ENIGMA-ADHD Cortical Thickness Reanalysis 2026
ekapanadze.github.io/Enigmaadhd

- Reproduced case-control cortical thickness effect sizes across 34 regions from published ENIGMA-ADHD summary statistics (Hoogman et al., 2019, *American Journal of Psychiatry*).
- Re-applied Benjamini-Hochberg FDR correction: no regional effect survived $q < 0.05$, as in the original report.
- Original adult-versus-adolescent comparison (cross-cohort $r = 0.38$) and interactive visualisations.
- Python pipeline (pandas, statsmodels, Plotly), built with AI coding assistance; published on GitHub Pages.

Co-investigator (second author) - Antibiotic Resistance in *Staphylococcus aureus*, Kakheti Region 2024 - 2025
Petre Shotadze Tbilisi Medical Academy · supervised by M. Zarnadze and M. Loladze

- Contributed to the study methodology and participant selection criteria for an age-stratified study of 80 adults.
- Performed the laboratory workflow: culture, Gram staining, biochemical identification (catalase, coagulase, oxidase) and disk diffusion susceptibility testing (EUCAST 2024 breakpoints).
- Ran the statistical analysis in SPSS (descriptive statistics, chi-square), drafted the manuscript, made the figures.
- Led participant education workshops on antibiotic misuse during data collection.

PUBLICATIONS

Revazishvili T, **Kapanadze E**, Pangani N, Zarnadze M, Loladze M. Evaluation of antibiotic susceptibility patterns across two adult age groups: a public health-oriented study of *Staphylococcus aureus* in Kakheti region, Georgia. *Reviews and Research in Medical Microbiology*. 2026. doi:10.1097/MRM.0000000000000459

AWARDS

University merit stipend (tuition waiver), Petre Shotadze Tbilisi Medical Academy 2025, 2026
Awarded twice for a semester GPA of 4.0 and extracurricular activities.

Winner - "What? Where? When?" academic competition, Petre Shotadze Tbilisi Medical Academy 2024

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Curriculum Vitae

NEUROSCIENCE TRAINING

Foundations of Clinical Neuroscience (online) - Eastern Virginia Medical School / Old Dominion University, USA — Jul - Aug 2026
Mentors: Dr. Alberto Musto, Dr. Patricia Schiaffini-Vedani.

Computational Neuroscience - University of Washington (Coursera) — 2026
Spike-triggered averages, tuning curves, Poisson spiking statistics, population decoding, information theory, sparse coding, Bayesian decision theory.

CLINICAL AND PROFESSIONAL EXPERIENCE

Nurse - Acute Psychiatric Department — Sep 2026 - present
Mental Health University Clinic, Tbilisi
Inpatient care of patients in acute psychiatric crises.

Volunteer — Feb - Jun 2026
Center of Mental Health and Prevention of Addiction, Tbilisi

Clinical Internship - Emergency Medicine — 2025
Tbilisi Central Hospital

Laboratory Assistant Intern - Quality Control Department — 2025
Onyx, a pharmaceutical company

CONFERENCES, PRESENTATIONS AND WORKSHOPS

Attendee - GeoNeuroRad 2026, Georgian Society of Neuroradiology Symposium, Tbilisi — 2026

Attendee - Soft Tissue Sarcoma and Melanoma, OMI Satellite Symposium (Open Medical Institute with Memorial Sloan Kettering Cancer Center), Tbilisi — May 2026

Presenter - antibiotic resistance in *Staphylococcus aureus*, INTECH4MED (Innovation and Technology for Medicine) international conference — 2024

Workshops - Preparation of Project Applications (Prof. Mladen Krajačić, University of Zagreb); Patient Safety (Prof. Thomas Schrader, Brandenburg University of Applied Sciences); Becoming an Efficient Supervisor (Prof. Melita Kovačević, University of Zagreb)

TEACHING, LEADERSHIP AND OUTREACH

Peer Tutor - Pharmacology and Radiology, Petre Shotadze Tbilisi Medical Academy — 2023 - 2026

Course Representative, Petre Shotadze Tbilisi Medical Academy — 2021 - present

Organiser - workshop "Your Memory Is Lying to You (And So Is AI)", Petre Shotadze Tbilisi Medical Academy — 2026

Member - Young Scientists Club of Georgia — 2026

Organiser - MEDIC International Scientific Conference, Petre Shotadze Tbilisi Medical Academy — 2023, 2025

Organiser - webinar "Antibiotic Resistance: Game of Bacterial Thrones", Petre Shotadze Tbilisi Medical Academy — 2023

Volunteer - Babale, an organisation supporting children with Down syndrome — 2025 - 2026

SKILLS

Laboratory: bacterial culture, Gram staining, biochemical identification, disk diffusion susceptibility testing (EUCAST)

Data analysis: SPSS (descriptive statistics, chi-square tests), basic Python (pandas, statsmodels, Plotly), FDR correction, data visualisation, GitHub Pages

Research: study design, participant recruitment and informed consent, scientific writing

LANGUAGES (CEFR)

Georgian	Native
English	C1
German	C1
Russian	B2