

BENJAMIN SZEGHY

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EDUCATION

Columbia University in the City of New York , New York, NY	<i>September 2026 – May 2027 (expected)</i>
M.A. in Quantitative Methods in the Social Sciences (QMSS)	
University of California, Berkeley , Berkeley, CA	<i>August 2024 – May 2026</i>
B.A. Geography, Concentration in Geospatial Representation; Minor in Geospatial Information Science & Tech. (GIST)	
Santa Monica College , Santa Monica, CA	<i>August 2021 – June 2024</i>
A.A. Geography, Anthropology, and Liberal Studies; coursework in Digital Media and Film Production	

AWARDS AND HONORS

- Best Presentation, Education, Advocacy and Policy Track, ANS Student Conference, 2026
- Berkeley L&S SURF Fellow, Summer 2025. Competitive grant supporting ethnographic research on community rebuilding after the 2025 Palisades fire.

EXPERIENCE

Schmidt Center for Data Science and Environment , Scientific Software Development Intern	<i>January 2026 – August 2026</i>
• Core contributor for the GeoJupyter open-source project; built several key user-facing features for JupyterGIS • Developed and maintained proj-codes, an NPM package supplying EPSG CRS codes as PROJ strings for in-browser reprojection; supported jupyter_tiler, middleware for tiling arbitrarily large n-dimensional rasters in Jupyter • Prototyped experimental features to improve scientific reproducibility of geospatial workflows; participated in regular technical and governance discussions with project leadership	
SALT Lab, UC Berkeley Nuclear Engineering , Research Assistant	<i>September 2024 – January 2026</i>
• Co-authored a nuclear policy paper on reciprocity for civil liability across international nuclear power frameworks with Prof. Raluca Scarlat, with critical impact for global nuclear energy development (under review) • Developed spatial workflows for DOE consent-based siting studies	
McKown Archaeobotany Lab and Studio.Geo? , UC Berkeley, Research Assistant	<i>September 2024 – January 2026</i>
• GIS analysis and 3D spatial modeling; built visualizations of archaeobotanical dig sites in ArcGIS Pro	
The Devil You Know , Production Assistant and Assistant Editor	<i>April 2022 – June 2024</i>
• Post-production stringouts, selects, and rough cuts for TV commercials and political campaign media	
ASTEME , Support Teacher	<i>August 2022 – May 2024</i>
• Led academic electives and classroom instruction; oversaw after-school operations for 50+ students	
Best Buy , Sales Advisor, Personal Computer / Home Office	<i>May 2021 – June 2022</i>

LEADERSHIP AND SERVICE

UC Berkeley NiCE (Nuclear is Clean Energy) , President and Board Member	<i>October 2024 – May 2026</i>
• Led a 90-member club to coordinate events, panels, and action on nuclear energy and policy • Liaised with the Department of Nuclear Engineering, government, and industry partners; sourced 10+ industry leaders to deliver insight at weekly club meetings, strengthening industry exposure and student professional development • Testified before California State Assembly committees in support of AB 2647 (passed August 2026)	
Future City Southern California (DiscoverE) , Board of Directors	<i>August 2026 – present</i>
• Serve on the regional board of the SoCal Future City engineering competition for middle school students	

SKILLS

Programming: Python, SQL, TypeScript, HTML, CSS, GDScript, Git, Linux command line, React, CI/CD, open source
Geospatial and Analysis: ArcGIS Pro, QGIS, Google Earth Engine, JupyterGIS, GeoPandas, cartography, spatial analysis, 3D spatial modeling, coordinate reference systems, social network analysis, remote sensing, geospatial data science
Tools: Jupyter (Lab and Hub), AWS, Solidworks, Godot, Microsoft Office, Google Workspace
Creative: Adobe Premiere Pro, After Effects, Photoshop, Lightroom, digital raster art, asset management, data visualization
Languages: English, Bulgarian, Hungarian