

Aram Bagdasarian

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Education

Harvard University

Expected May 2027

A.B. in Statistics and Government (double concentration)

Cambridge, MA

Graduate coursework: Causal Inference with Applications (Imai); Data Science I; Sparse Inference, and Network and Text Analysis.

Undergraduate coursework: Probability; Statistical Inference; Statistics and Data Science of Networks; Data Science II; Multivariable Calculus; Linear Algebra; Linear Models.

Research Experience

Harvard University, Department of Government

Aug 2026 – Present

Research Assistant to Prof. Guilherme Duarte

Cambridge, MA

- Study methods for sensitivity analysis, partial identification, and automated causal bounds.
- Explore treatment-effect identification when judge-assignment designs violate monotonicity.

Applied Neuroimaging Statistics Lab, McLean Hospital

Aug 2026 – Present

Kure Research Fellow, Kempner Institute, Harvard University

Belmont, MA

Supervisors: Dr. Lisa Nickerson and Dr. You (Lily) Cheng

- Plan a benchmark of frozen BrainLM embeddings for phenotype prediction from HCP functional MRI.
- Proposed design covers phenotype curation, confounds, and baseline comparisons across sample sizes.

Harvard University, Department of Government

Feb 2026 – Present

Research Assistant to Prof. Melani Cammett (with Marko Kljajić)

Cambridge, MA

- Built a two-model LLM pipeline that screened 11,687 titles and abstracts on the political economy of war.
- Designed validation on 304 triple-coded review records; model-human agreement $\kappa = 0.705\text{--}0.734$.
- Built an OpenAlex citation-chasing pipeline across 337 reviews, identifying 34 new candidate studies.

ZOiS, Centre for East European and International Studies

May 2025 – Present

Researcher

Berlin, Germany

- Scraped 47,000+ Russian-language documents and built an NLP pipeline mapping 1,000+ actors.
- Analyzed centrality and communities in Russia's adaptation networks across four periods (2010–2025).
- Tested sensitivity to media sources using a corpus restricted to TASS and RIA Novosti.
- Extended the workflow to six actor corpora comprising 528,836 article records.
- Produced 50 figures and 40 ranking tables across four completed network-analysis cases.

APRI Armenia

May – Aug 2026

Research Intern

Yerevan, Armenia

- Archived 535,000+ full-text articles from three news outlets using a resumable Python crawler.
- Designed coverage-share measures and an LLM pipeline scoring 1,495 articles on five rhetorical dimensions.
- Corrected a parser defect affecting 351,800 articles and reran analyses to remove inflated keyword counts.
- Built an internal application for multilingual archive search and on-demand narrative analysis.

Harvard Center for International Development

Sep 2025 – May 2026

Student Research Scholar

Cambridge, MA

Collaborator: Germán David Orbegoza-Rodríguez

- Built a TikTok scraper and analysis pipeline that collected and processed 200,000+ videos.
- Automated OCR, sentiment analysis, and Whisper transcription across the full video corpus.

Central Bank of Armenia

Sep 2024 – Jan 2025

Research Associate

Remote

- Compared 13 research quality-assurance methods across approximately five central banks.

Workshop Papers

- Saffarini, A., & **Bagdasarian, A.** (2026). “Auditing Chain-of-Thought Faithfulness for Trustworthy AI: A Reproducible Corruption-Probe Protocol Across Eleven Frontier LLMs.” *Trustworthy AI for Good (AI4GOOD) Workshop, ICML, 2026*. Poster presentation, Seoul, South Korea.

Work Under Review

- **Bagdasarian, A.** “E-Values under Hidden Multiplicity: The $\Theta(N)$ Cost of Selection and the $\log N$ Price of Disclosure.” *Under review, E-Values Workshop, NeurIPS 2026*.
- Hoppe, S., Filippova, A., & **Bagdasarian, A.** “Brokered Global Engagement Through Patronal Repurposing: Evolution and Structure of Russia’s Adaptation Networks.” *Under review*.

Work in Progress

- **Bagdasarian, A.** Adapting psychometric test-equating to separate real social change from language-model version drift when a construct is tracked over time.
- **Bagdasarian, A.** Detecting coordinated and AI-generated comment campaigns in rulemaking records at scale.

Teaching

American University of Armenia

Teaching Assistant, CS 252: Data Science (Prof. Habet Madoyan)

Summer 2026

Yerevan, Armenia

- Taught 30 students and developed six in-class labs for a 20-session undergraduate data science course.
- Held weekly office hours and graded assignments and labs.

Awards & Fellowships

- **Kure Research Fellowship**, Kempner Institute, Harvard University (2026).
- **URAF Conference Funding**, Harvard University (2024, 2025, 2026).
- **IOP Director’s Internship**, Harvard University (2024).

Leadership & Service

Teevial

Founder

Jan 2025 – Present

Armenia / Hybrid

- Founded a youth research NGO in Armenia with 100+ members.
- Recruited and supervised over 10 university students conducting quantitative research on Armenian issues.
- Secured \$10,000+ in grants to support research travel, lodging, and technical resources.

Harvard Boxing Club

President

Aug 2025 – May 2026

Cambridge, MA

- Grew membership by 200; club featured in *The New York Times* and Fox News’ *Fox & Friends*.
- Organized Fight Night featuring 20 boxers and mentored participants through preparation.

Additional service: Student Ambassador, Harvard Center for International Development (2025–2026).

Skills & Languages

Methods: statistical inference, LLM validation and auditing, text-as-data (NLP), network analysis.

Programming: Python, R, SQL, Stata, LaTeX, Git, PyTorch, scikit-learn, spaCy, NetworkX.

Languages: Armenian (native), Russian (advanced), French (upper-intermediate).