Danial Vahabli

DanialVahabli.com | LinkedIn | Google Scholar | GitHub

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Sociology Ph.D. Student

I am a sociology Ph.D. student at Stony Brook University and the beneficiary of the graduate fellowship of Institute for Advanced Computational Science. My research interests revolve around the examination of how social movements attract media attention, express themselves through artistic means, and gain support. To explore these dynamics, I draw from a multidisciplinary framework, incorporating insights from social movements theory, world-society theory, media studies, and cultural sociology. While answering my research questions I employ a mixed-method research technique that combines computational tools such as natural language processing and network science with qualitative methods.

Education

Stony Brook University & Institute for Advanced Computational Science — New York, USA
Ph.D. In Sociology — *2022 – 2027 (Expected)*
Graduate Research Fellow at Institute for Advanced Computational Sciences

Middle East Technical University — Ankara, Turkey
Bachelor of Science in Physics — *2018 - 2022*
GPA: 3.76/4 - Concentrated in Mathematical Physics

Middle East Technical University — Ankara, Turkey
Minored In Sociology — *2020 - 2022*
GPA: 4/4

National Organization for Development of Exceptional Talents — Urmia, Iran
High School Diploma concentrating in Mathematics and Physics — *2014 - 2017*

Publications

Citations: 21 | H-Index: 2

Sociology:

- **Danial Vahabli**, "From the Global South to the World Stage: A Study of Global Frame Resonance Using a Comparative Case of Women, Life, Freedom and Bloody November in Iran", **Under Review**
- **Danial Vahabli**, "From Sad Eastern to Angry Eastern: Emotions, Identity, and Heroines in Persian Protest Rap", **Preprint**
- **Danial Vahabli**, Jason Jeffrey Jones "Identity Diversification and Homogenization: Evidence from Frequent Estimates of Similarity of Self-Authored, Self-Descriptive Text", **Preprint**

Physics:

- **Vahabli, Danial**, and Tamas Vicsek. “Emergence of Synchronised Rotations in Dense Active Matter with Disorder.” Communications Physics 6, no. 1 (March 31, 2023): 1–13. https://doi.org/10.1038/s42005-023-01173-5
- Nizam, Ü Seleme, Ghaith Makey, Michaël Barbier, S. Süleyman Kahraman, Esin Demir, Ehsan E. Shafigh, Sezin Galioglu, **Danial Vahabli**, Sercan Hüsnügil, Muhammed H Güneş, Efe Yelesti, Serim Ilday. “Dynamic Evolution of Hyperuniformity in a Driven Dissipative Colloidal System.” Journal of Physics: Condensed Matter 33, no. 30 (June 2021): 304002. https://doi.org/10.1088/1361-648X/abf9b8.

Conference Presentations

- 2024, "From Sad Eastern to Angry Eastern: Agency, Emotions, and Heroines in Persian Protest Rap" Panel organized by the Collective Behavior and Social Movements (CBSM) section. 119th American Sociological Association Annual Meeting, Montreal, CA.
- 2024, "Hashtag Activism for Global Attention: Unheard Subaltern Iranian Perspectives" Poster Presentation. 10th International Conference on Computational Social Science, Philadelphia, PA.
- 2024, "The Global Spotlight on the Global South: A Study of Global Frame Resonance with a Comparative Case of Women, Life, Freedom and Bloody November Uprisings in Iran" Panel on "Women, Basic Rights, and Activism", Third Critical Perspectives on Human Rights Conference 2024, New York City, NY
- 2023, "The Amplification of Social Movements by Word-Society Channels: A Case Study of Iran" Round Table Presentation. 118th American Sociological Association Annual Meeting, Philadelphia, PA.

- 2023, "From Sad Eastern to Angry Eastern – a Content Analysis of the Persian Rap" Panel Presentation. National Women's Studies Association 2023 Conference, Baltimore, MD.

Awards and Scholarships

- Hanan Selvin Award for outstanding quantitative and/or methodological paper from Stony Brook University's Sociology department for paper titled "From the Global South to the World Stage: A Study of Global Frame Resonance Using a Comparative Case of Women, Life, Freedom and Bloody November in Iran"
- Beneficiary of the graduate fellowship of the Institute for Advanced Computational Science.
- Beneficiary of TUTÜBİTAK (Scientific and Technological Research Council of Turkey) Scholarship for my work with Prof. Serim Ilday.
- Beneficiary of Erasmus + Traineeship grant for research internship position under the supervision of Prof. Tamas Vicsek, Budapest, Hungary.
- High honor student at the physics department at Middle East Technical University (Spring 2018-Spring 2021).

Research Experience

Collaborator June 2022 - Present
Stony Brook University *New York, USA*

- Studying Twitter Bio's as a measure of self-described Identity with Prof. Jason J. Jones
- Using Natural Language Processing methods such as **Word-Embeddings** and **Contextual Embedding**

Research Intern April 2021 - June 2022
Eötvös Loránd University *Remote – Budapest, Hungary*

- Worked under the supervision of Prof. Tamás Vicsek simulating the collective motion of soft active particles.
- Developed an efficient parallel **Python** code simulating the collective motion of soft-active particles using **CUDA Pyton**
- The internship was initially funded by **Erasmus+Traineeship** program as an in-person internship but due to the COVID-19 pandemic, I conducted it online

Research Intern November 2021 - February 2022
Center for Complex Network Research *Remote - Northeastern University, Boston, USA*

- Worked under the supervision of Prof. Albert-László Barabási studying the Science of Success
- Used causal inference methods such as covariate adjustment

Undergraduate Research Assistant August 2020 - February 2022
Simply Complex LabUNAM Research Center, Bilkent University, Ankara

- Worked under the supervision of Prof. Serim Ilday studying the collective motion of nano-particles
- Developed a dynamic toolkit based on **MATLAB** to analyze the hyperuniformity of experimenal videos

Technical Skills

Languages	:	Python, MATLAB
Libraries	:	CUDA Python, NetworkX, nltk, TensorFlow, QISKIT
Dev Tools	:	Visual Studio Code, Git, Gitlab
Design	:	Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro

Languages

- Persian (Native)
- Turkish (Native)
- English (IELTS 8/9)