

LUCINE OGANESIAN

PhD Student, Electrical and Computer Engineering, University of Southern California
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Education

- In progress PhD, Electrical and Computer Engineering. University of Southern California.
Advisor: Dr. Maryam Shanechi
- May 2016 BS, Electrical Engineering and Computer Sciences. University of California, Berkeley

Positions

- 2020 - Present **Graduate Research Assistant, University of Southern California**
Advisor: Dr. Maryam Shanechi
- 2016 - 2020 **Software Engineer, Google**
- 2015 - 2016 **Research Assistant, UC Berkeley**
Advisors: Dr. Fatma Deniz, Dr. Alexander G. Huth, and Dr. Jack L. Gallant
- 2014 **REU Intern, University of Pittsburgh**
Advisors: Dr. Sanjeev Khanna and Dr. Matthew A. Smith

Honors and Awards

- 2020 Rose Hills Foundation Fellowship, *University of Southern California.*
- 2020 WiSE [Graduate Top-off Fellowship](#), *University of Southern California.*
- 2016 Highest Honors in Electrical Engineering and Computer Sciences, *UC Berkeley.*
- 2014 REU Intern Funding ([uPNC](#)), *Center for the Neural Basis of Cognition, Carnegie Mellon University.*
- 2012-2016 Regents' and Chancellor's Scholar, *UC Berkeley.*

Grants / Research Funding

- 2016 Regents' and Chancellor's Research Fellowship, *Regents' and Chancellor's Association, UC Berkeley.* \$600
- 2015 Summer Undergraduate Research Fellowship, *The Rose Hills Foundation, UC Berkeley.* \$5,000

Conference Presentations

- Oganesian, LL., Sani, OG., Shanechi, MM.** 2021. Learning behaviorally relevant dynamics in population spiking activity with Poisson preferential subspace identification (Poisson-PSID). Society for Neuroscience, 50th Annual Meeting. (Upcoming November.)
- Oganesian, L., Deniz (née Imamoglu), F., Huth, AG., Gallant, JL.** 2016. Natural Acoustic Stimuli Reveal Tonotopic Frequency Maps in Primary Auditory Cortex. Stanford Undergraduate Psychology Conference, Stanford, CA
- Oganesian, L., Deniz (née Imamoglu), F., Gallant, JL.** 2015. Low-level Feature Representation of Music in the Human Brain. SURF Undergraduate Research Conference, Berkeley, CA

Oganesian, L., Khanna, S., Cecala, AL., Smith, M. 2014. Rapid Visual Decision Making in Humans. REU Research Symposium, Pittsburgh, PA.

Patents

- Co-author on six patents (tenure at Google): US10375632B1, US20190110264A1, US20190086482A1, US20190113325A1, US20200019231A1, US10746819B2.

Teaching and Mentorship

Teaching Positions

Year	School	Course Title	Course Code	Role
Spring 2016	UC Berkeley	Digital Signal Processing	EE123	Course Reader
Fall 2013	UC Berkeley	Structure and Interpretation of Computer Programs	CS61A	Lab Assistant
Summer 2013	Academic Talent Development Program (ATDP), UC Berkeley	Introduction to Robotics	N/A	Co-Instructor

Other

2014 - 2016 Math Tutor, *Student Learning Center* (slc.berkeley.edu), UC Berkeley

Outreach

- 2021 - Present **WiSE Graduate Mentor**, *University of Southern California* (wise.usc.edu).
- 2016 - Present **PiE Alumni Scholarship Committee**, *UC Berkeley Pioneers in Engineering* (pioneers.berkeley.edu).
- 2016 - Present **RCSA Alumni Mentorship Program**, *UC Berkeley*.
- 2017 **Meet a Scientist Event**, *East Bay YMCA, Oakland, CA*.
- 2013 - 2014 **PiE Prep Program Director**, *UC Berkeley Pioneers in Engineering*.

Skills & Relevant Coursework

Programming: Python (Advanced), C++/Java/MATLAB (Proficient), C (Familiar)

Operating Systems: Ubuntu/OSX (Advanced), Android (Proficient)

Frameworks/Libraries: Scientific Python (Advanced), Tensorflow/gRPC/ROS/rviz (Familiar)

Other Software: Inkscape (Proficient), Unity/Krita (Familiar)

Languages: English (fluent), Armenian (fluent speaking; proficient reading and writing)

Linear Algebra (UC Berkeley/USC)

Linear Feedback Control Systems (UCB)

Probability and Random Processes (UCB/USC)

Data Structures (UCB)

Convex Optimization Models (UCB)

Algorithms (UCB)

Introduction to Artificial Intelligence (UCB)

Cognitive Neuroscience (UCB)

Introduction to Machine Learning (UCB)
Signals and Systems (UCB)
Digital Signal Processing (UCB)
Random Processes (USC)

Statistical Signal Processing (Stanford)
Linear System Theory (USC)
Estimation Theory (USC)
Principles of MRI (UCB)

Affiliations

2021- Society for Neuroscience