

Margarita Geleta

geleta@berkeley.edu | +1 (949) 992-7053

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
PH.D. IN COMPUTER SCIENCE
May 2027 | Berkeley, CA

UNIVERSITY OF CALIFORNIA, IRVINE
PH.D. IN COMPUTER SCIENCE
(TRANSFERRED)
Aug 2022 | Irvine, CA

POLYTECHNIC UNIVERSITY OF CATALONIA
B.SC. IN DATA SCIENCE AND ENGINEERING
Jun 2021 | Barcelona, Spain

LINKS

Github:// [margaritageleta](#)
LinkedIn:// [margarita-geleta](#)
Website:// [margaritageleta.github.io](#)
GScholar:// [Margarita Geleta](#)

COURSEWORK

AI Major: Artificial Intelligence • Scientific Computing • Algorithmics • Statistics • Machine Learning • Deep Learning • Data Analysis • Mathematical Optimization • Information Visualization

HCI Minor: User Interface Design and Development

Business Minor: Leading High Impact Teams • Lean Startup • Negotiation and Conflict Resolution

SKILLS

Programming: Python • R • Dart C++ • C# • C

Scripting: Javascript • Bash

Markup: HTML5 • CSS3

Frameworks: Unity3D • Flutter • PyTorch

Databases: PostgreSQL • SQLite • Neo4j

LANGUAGES

English **Proficient**
Spanish **Native**
Catalan **Native**
Russian **Native**

RESEARCH & EXPERIENCE

DOLBY LABORATORIES, INC. | SOUND TECH R&D PHD INTERN
May 2024 - Aug 2024 | San Francisco, CA

- Quantified the benefits of spatial audio object interaction techniques in extended reality (XR) applications.

STEALTH STARTUP | Co-FOUNDER
May 2024 - Jun 2024 | San Francisco, CA

- Directed-energy edge-deployed systems for counter-drone defense backed by Founders, Inc. 1st place at the National Security Hackathon by Shield Capital, In-Q-Tel, Anduril, and more.

ALUMNI VENTURES (AV) | VENTURE SCOUT
Jan 2024 - Present | San Francisco, CA

- Shared attractive investment opportunities with AV. The AV Venture Scout Program is an extensive network of independent angels, entrepreneurs, and connectors.

AMAZON.COM | APPLIED SCIENTIST II INTERN
Jun 2022 - Aug 2022 / May 2023 - Aug 2023 | Seattle, WA

- Worked with large-scale generative models, GAN inversion [3], image editing with GANs, image-to-image translation, novel view synthesis (NVS).

STANFORD UNIVERSITY | RESEARCH AFFILIATE
Jun 2021 - Present | Palo Alto, CA

- Introduced algorithms [4] designed to analyze the genomes of diverse populations, and designed several generative models for artificial genotypes [2] with the aim to augment populations underrepresented in genetic research and reinforce fairness.

AWARDS

- 2024 AI Research Fellowship Program at Bain Capital Ventures (BCV).
- 2023 Samuel Silver Memorial Scholarship, UC Berkeley.
- 2022 Fellowship for CS Ph.D. program by EECS Dept., UC Berkeley.
- 2021 CS Department Dean's Fellowship (outstanding research potential).
- 2021 Fellowship for CS Ph.D. program by the Department of CS, UC Irvine.

SELECTED PUBLICATIONS

- [1] **M. Geleta***, Cristina Puntí, Kevin McGuinness, Jordi Pons, Cristian Canton, and Xavier Giró i Nieto. Pixinwav: Residual steganography for hiding pixels in audio. ICASSP accepted, 2021.
- [2] Maria Perera*, Daniel Mas Montserrat, Míriam Barrabes, **M. Geleta**, Xavier Giró i Nieto, and Alexander G. Ioannidis. Generative moment matching networks for genotype simulation. EMBC accepted, 2022.
- [3] Qianli Feng*, Raghudeep Gadde, Viraj Shah, **M. Geleta**, Pietro Perona, and Aleix M. Martinez. Near perfect gan inversion. Under review, 2023.
- [4] Míriam Barrabés*, Daniel Mas-Montserrat*, **M. Geleta**, Xavier Giró i Nieto, and Alexander G. Ioannidis. Adversarial learning for feature shift detection and correction. In *Neural Information Processing Systems (NeurIPS)*, New Orleans, USA, 12/2023 In Press.