Stanford

Iro Armeni

Assistant Professor of Civil and Environmental Engineering and, by courtesy, of Computer Science

Bio

BIO

Iro Armeni is Assistant Professor of Civil and Environmental Engineering. She is interested in interdisciplinary research between Architecture, Civil Engineering, and Visual Machine Perception. Iro focuses on developing quantitative and data-driven methods that learn from real-world visual data to generate, predict, and simulate new or renewed built environments that place the human in the center. Iro's goal is to create sustainable, inclusive, and adaptive built environments that can support our current and future physical and digital needs. As part of her research vision, she is particularly interested in creating spaces that blend from the 100% physical (real reality) to the 100% digital (virtual reality) and anything in between, with the use of Mixed Reality.

Iro completed her PhD at Stanford University on August 2020, Civil and Environmental Engineering Department, with a PhD minor at the Computer Science Department. Afterwards she was a Postdoctoral Fellow at ETH Zurich working at both the Computer Science and Civil, Environmental, and Geomatic Engineering Departments (2023). Prior to her PhD, she received an MSc in Computer Science (Ionian University-2013), an MEng in Architecture and Digital Design (University of Tokyo-2011), and a Diploma in Architectural Engineering (National Technical University of Athens-2009). She has also worked as an architect and consultant for both the private and public sector.

Iro is the recipient of the Google Research Scholar Program, the ETH Zurich Postdoctoral Fellowship, the Google PhD Fellowship, and the MEXT Scholarship.

ACADEMIC APPOINTMENTS

- Assistant Professor, Civil and Environmental Engineering
- Assistant Professor (By courtesy), Computer Science

PROFESSIONAL EDUCATION

- Ph.D., Stanford University , Civil and Environmental Engineering Minor in Computer Science (2020)
- MSc., Ionian University , Computer Science (2013)
- MEng., University of Tokyo , Architectural Engineering (2011)
- Diploma, National Technical University of Athens , Architectural Engineering (2009)

LINKS

- Gradient Spaces Research Group: https://gradientspaces.stanford.edu/

- Personal Website: https://ir0.github.io/
- Google Scholar: https://scholar.google.com/citations?user=m2oTZkIAAAAJ&hl=en&oi=ao

Teaching

COURSES

2026-27

- Artificial Intelligence Applications in the AEC Industry: CEE 329 (Spr)
- Computer Vision for the Built Environment: CEE 147C, CEE 247C (Win)
- Designing for Gradient Spaces: CEE 342 (Spr)

2025-26

- Artificial Intelligence Applications in the AEC Industry: CEE 329 (Spr)
- Computer Vision for the Built Environment: CEE 147C, CEE 247C (Win)
- Designing for Gradient Spaces: CEE 342 (Spr)

2024-25

- Artificial Intelligence Applications in the AEC Industry: CEE 329 (Spr)
- Computer Vision for the Built Environment: CEE 247C (Win)
- Designing for Gradient Spaces: CEE 342 (Spr)

2023-24

- Computer Vision for the Built Environment: CEE 247C (Win)
- Designing for Gradient Spaces: CEE 342 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Eleni Alexandraki, Mia Lochhead

Orals Chair

Sharon Zhang

Postdoctoral Faculty Sponsor

Ayca Duran

Doctoral Dissertation Advisor (AC)

Martin Bucher, Emily Steiner, Jianhao Zheng, Liyuan Zhu

Orals Evaluator

Isaac Ward

Master's Program Advisor

Heshan Chen, Yashasvini Gopalan, JinOh Kim, Jiayi Li, Jamie Liu, Ashmitha Sivakumar, Zixuan Zhao

Doctoral (Program)

Martin Bucher, Sayan Deb Sarkar, Tao Sun, Jianhao Zheng, Liyuan Zhu