IRO ARMENI

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EDUCATION

Ph.D., Dept. of Civil and Environmental Engineering, Stanford University Ph.D. Minor, Dept. of Computer Science Area: Computer Vision/Construction Engineering	2020
MSc in Computer Science, Dept. of Informatics, Ionian University Area: Informatics and Humanistic Studies	2014
MEng in Architecture, Dept. of Architecture, University of Tokyo Area: Digital Design Approaches	2011
Diploma in Architecture, Dept. of Architecture, National Technical University of Athens Area: Architectural Engineering	2009

ACADEMIC EMPLOYMENT

Postdoctoral Fellow, ETHZ

2020 - present

Innovative and Industrial Construction & Computer Vision and Geometry Labs

Departments of Civil, Environmental and Geomatic Engineering & Computer Science

RESEARCH INTERESTS & EXPERIENCE

Interests: Machine Vision & AI for Architectural, Civil, & Construction Engineering, to improve and transform how we design, construct and operate facilities.

PostDoctoral Researcher 2020 - present

Innovative and Industrial Construction & Computer Vision and Geometry Labs

ETHZ

- Spatiotemporal 3D Point Cloud Registration Under Large Changes (AEC | CS): Supervising 4 MS students to create a new benchmark on spatiotemporal 3D point cloud registration of scenes under large geometric and temporal change. Providing detailed guidance on the method, benchmark definition and experiments. Collecting the point cloud dataset in scenes under construction. Defining how often to collect the temporal points. This will be particularly useful when working with multiple 3D scans of the same area that are captured at different points in time.
- Multi-view 3D Scene Graph Prediction (CS): Co-supervising a PhD candidate on estimating the 3D Scene Graph of an indoor scene given multi-view RGB observations of the scene that have narrow field of view.
- City-scale 3D Reconstruction from visual data (AEC | CS): Co-supervised 2 MS students in their semester project to reconstruct cities in 3D from satellite imagery using implicit functions. [ImpliCity]
- **3D Scene Storytelling** (*early stages*) (AEC+CS): Supervising an MS student on their thesis about automatically describing changes in 3D scenes (e.g., rooms) with natural language, using Deep learning algorithms. Among others, this can be useful in automatically creating *reports on modifications in renovated spaces*.
- Pose Estimation with Movement for Use in AR for Sports (early stages) (AEC | CS): Supervising an MS student on their thesis about an Augmented Reality system that automatically detects the pose of an athlete while performing an action, and suggests real-time improvements on the stance. This could be particularly useful for decreasing injuries in construction workers from performing repetitive strenuous activities.

Different abbreviations denote straightforward implications on or use of different domains | AEC : Architecture Engineering Construction | CS : Computer Science

• Object detection and localization in densely packed settings (early stages) (CS): Supervising an MS student on their thesis about semantic 3D reconstruction of densely packed retail settings (e.g., grocery stores) from RGB sequential images (video).

Doctoral Researcher 2015-2020

Center for Integrated Facility Engineering & Stanford Vision and Learning Lab

Stanford University

- Getting more than object labels toward a complete BIM (AEC | CS): Devised graph representation for multi-modal semantics (e.g., object, spaces), their attributes (e.g., object material, space function), and complex relationships among them (e.g., spatial, magnitude). Developed an automatic method for extraction of object semantics and a user-in-the-loop verification system to reach near-perfect results. Tested this method on a large number of data and publicly released them to the community. [3D Scene Graph]
- Automatically generating as-built Building Energy Models (BEM) (AEC | CS): Devised algorithmic geometric method to generate BEMs given building 3D point clouds. Performed qualitative and quantitative analysis with structured experiments to understand the robustness and the failure points. [AutoBEM]
- Leveraging 3D Deep Learning for fine-grained semantic segmentation of point clouds (AEC+CS): Collaborated on developing a semantic segmentation network for 3D point clouds of indoor spaces. Performed comparisons to a number of state-of-the-art methods for indoor and outdoor settings. [SEGCloud]
- Creating a large-scale multi-modal dataset of indoor spaces (CS): Developed methods to automatically generate large number of multi-modal indoor instance segmentation semantics (2D, 2.5D and 3D) given annotated 3D mesh and 2D panoramas. Released the generated data to the community to support further cross-modal research. [2D-3D-S]
- Generating 3D semantic models of buildings from point clouds (AEC+CS): Developed a 3D semantic algorithm for hierarchical parsing of entire building 3D point clouds into spaces and objects. Performed experiments against 2.5D and 3D methods using data that I acquired and annotated. Proposed potential applications, such as automatic space manipulation or extraction of space statistics. [Building Parser]

Graduate Researcher 2012-2013

Dept. of Informatics

Ionian University

- **Detecting Structural Damage in ambient vibration signals** (AEC | CS): Developed a method for identifying patterns of structural damage in ambient vibration signals.
- Suggesting paths to pedestrians based on preferences (CS): Conducted tests with pedestrians going from A to B under different conditions (shortest distance versus leisurely). Analyzed the results with qualitative and quantitative methods to identify patterns in the different behavioral modes.
- Making a game out of teaching material properties (CS): Developed a virtual education game for high school students to learn material properties and Hooke's Law of Physics. [StretchIT]
- Bringing behavioral change with social networks (CS): Developed a web-based social network that uses methodologies from behavioral change theory for urban awareness. [What's up neighbor]

Graduate Researcher 2010-2011

Dept. of Architecture

University of Tokyo

- Informing form-finding with physics and fabrication properties (AEC | CS): Devised a methodology for integrative digital design that incorporates material performance, structure, context, and fabrication/construction in defining form at early conceptual design stages.
- Exploring 3D structures based on material computation and generative algorithms (AEC | CS): Developed generative algorithms that combine the generation of 2D patterns from repeatable elements and material computation of their properties, to create innovative 3D structures. Used the generated patterns to digitally fabricate the 3D structures. [Digital Matters]
- Using material computation and generative algorithms for sustainable cities (AEC | CS): Developed

structures that follow similar algorithmic and material principles as above for the rehabilitation of a polluted river in the industrialized area of Kawasaki city, Japan. [Amphibious Aggregation]

Undergraduate Researcher

2007-2009

Dept. of Architecture

National Technical University of Athens

- **Designing projects of public, urban and private scope** (AEC): Among them are rehabilitation of an old quarry, mega-structures, structural design of pedestrian bridge, and more. These designs were performed with a combination of 2D and 3D virtual and physical/digital fabrication tools.
- Analyzing architectural works (AEC): Used theoretical and digital tools (e.g, drawings, 3D reconstructions, physical models) to analyze in depth the work of influential architects, with the goal to provide either a new perspective or details and analysis on unpublished structures. [J.A. Coderch | Ioannis Xenakis house in Amorgos Island]

HONORS & AWARDS

ETH Zurich Postdoctoral Fellowship

2020-2022

Competitive, university-level funding for postdoctoral studies on Machine Perception for Architecture, Construction, and Facility Management

Google Ph.D. Fellowship

2017-2020

Competitive funding across North America and Europe, for Ph.D. studies on Machine Perception

Stanford CIFE Seed Research Award

2016-2017

Competitive, department-level funding, for research on "Automated Semantic Understanding of Buildings"

Stanford School of Engineering Fellowship, Rick & Melinda Reed Graduate Fellowship

dings" **2015-2016**

Competitive, university-level funding, for Ph.D. studies

EU Marie-Curie Fellowship

2014-2015

For the project "Automated As-Built Modelling of the Built Infrastructure"

EU Marie-Curie Fellowship

2013-2014

For the project "BIMAutoGen"

Japanese Government Scholarship (MEXT)

2009-2011

Competitive, nation-level funding, for MEng degree

Erasmus Scholarship, The State Scholarships Foundation, EU

2007

Competitive, university-level funding, foreign exchange studies in ETSAM, Spain

PEER REVIEWED PUBLICATIONS

- B. Chen, S. Sax, L. Pinto, F. Lewis, **I. Armeni**, S. Savarese, A. Zamir, and J. Malik, "Robust policies via midlevel visual representations: An experimental study in manipulation and navigation.," in *Conference on Robot Learning (CoRL)*, 2020
- **I.** Armeni, Z.-Y. He, J. Gwak, A. R. Zamir, M. Fischer, J. Malik, and S. Savarese, "3D Scene Graph: A Structure for Unified Semantics, 3D Space, and Camera," in *IEEE International Conference on Computer Vision (ICCV)*, 2019
- L. Tchapmi, C. Choy, **I. Armeni**, J. Gwak, and S. Savarese, "SEGCloud: Semantic segmentation of 3D point clouds," in *IEEE International Conference on 3D Vision (3DV)*, 2017. (Spotlight presentation)

- **I.** Armeni, O. Sener, A. R. Zamir, H. Jiang, I. Brilakis, M. Fischer, and S. Savarese, "3D Semantic Parsing of Large-Scale Indoor Spaces," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016. (Oral presentation 4% acceptance rate)
- V. Pătrăucean, **I. Armeni**, M. Nahangi, J. Yeung, I. Brilakis, and C. Haas, "State of research in automatic as-built modelling," *Advanced Engineering Informatics*, vol. 29, no. 2, pp. 162–171, 2015
- L. Spedicato, **I. Armeni**, N. I. Giannoccaro, M. Avlonitis, and S. Papavlasopoulos, "A dynamic identification of a historical building using accelerometers with interface modules and a digital synchronization method," in *Key Engineering Materials*, vol. 628, pp. 204–211, Trans Tech Publ, 2015
- **I. Armeni** and K. Chorianopoulos, "Pedestrian navigation and shortest path: Preference versus distance.," in *Intelligent environments (workshops)*, pp. 647–652, 2013
- I. Armeni and T. Bristogianni, "More than a machine. j. a. coderch," Technical Chronicles, vol. May-June, 2010

MANUSCRIPTS UNDER REVIEW & REPORTS

- S. Tao, S. Huang, B. Chen, X. Chen, Y. Hao, S. Savarese, K. Schindler, M. Pollefeys, and **I. Armeni**, "Nothing stands still: A spatiotemporal benchmark on 3d point cloud registration under large geometric and temporal change," in *International Society for Photogrammetry and Remote Sensing (ISPRS) Journal of Photogrammetry and Remote Sensing*, 2022. (*In preparation*)
- D. Agrawal, J. Lobsiger, B. Y. Fei*, V. Kaufmann*, and **I. Armeni**, "Hololabel: Augmented reality user-in-the-loop annotation tool for as-is building information," in *European Conference on Computing in Construction (EC3)*, 2022. (*Under review*)
- Y. Zhao*, C. Fol*, Y. Jiang, T. Wu, and **I. Armeni**, "Semspray: Virtual reality as-is semantic information labeling tool for 3d spatial data," in *European Conference on Computing in Construction (EC3)*, 2022. (*Under review*)
- C. Stucker, B. Ke, Y. Yue, S. Huang, **I. Armeni**, and K. Schindler, "ImpliCity: City Modeling From Satellite Images with Deep Implicit Occupancy Fields," in *International Society for Photogrammetry and Remote Sensing (ISPRS) Congress*, 2022. (*Under review*)
- **I. Armeni***, S. Sax*, A. R. Zamir, and S. Savarese, "Joint 2D-3D-Semantic Data for Indoor Scene Understanding," *arXiv preprint arXiv:1702.01105*, 2017

PATENTS

- L. P. Tchapmi, C. B. Choy, **I. Armeni**, J. Gwak, and S. Savarese, "Systems and methods for semantic segmentation of 3d point clouds," Apr. 11 2019. US Patent App. 16/155,843
- **I. Armeni**, S. Skaff, and J. Yu, "Devices, systems, and methods for generating multi-modal images of a synthetic scene," Mar. 15 2018. US Patent App. 15/494,352
- **I. Armeni**, O. Sener, A. R. Zamir, M. Fischer, and S. Savarese, "Systems and methods for performing three-dimensional semantic parsing of indoor spaces," Dec. 14 2017. US Patent App. 15/619,422

THESES

I. Armeni, "Automatically generating structured information on the as-is status of facilities from visual data." Ph.D. Thesis, Civil and Env. Engineering Dept., Stanford University, 2020

- I. Armeni, "Damage detection and location in structures under ambient vibration using operational modal analysis." MSc Thesis, Dept. of Informatics, Ionian University, 2014
- I. Armeni, "An integrative digital design approach: Material performance as the key-element in form-finding." MEng Thesis, Dept. of Architecture, University of Tokyo, 2011
- I. Armeni and T. Bristogianni, "Rehabilitation of the former quarries at kopana's hill." Diploma Project, School of Architecture, National Technical University of Athens 2009
- I. Armeni and T. Bristogianni, "More than a machine. j.a. coderch." Research Thesis, School of Architecture, National Technical University of Athens 2008

PEER REVIEWED ARCHITECTURAL PROJECTS

Pattern Design w/ Digital Computation

2012

appeared in "Patterns and Layering: Japanese Spatial Culture, Nature and Architecture" Collaborators: I. Armeni, O. Biloborodko, T. Ko

Municipal Theatre of Corfu: Renovation of the Facades and the Entrance Piazza

2012

1st prize in country-wide architectural competition by the Municipality of Corfu at the 7th Biennale of Young Greek Architects

Collaborators: S. Zerefos, C. Tessas, I. Armeni, T. Bristogianni

Prototype Housing for the Rehabilitation of Victims of the Extended Fires of August 2007

2009

1st of 15 Equal prizes, SEGM Housing Competition for the Fire Victims

appeared in Bank of Greece Publications

Collaborators: S. Zerefos, C. Tessas, I. Armeni, T. Bristogianni

TEACHING EXPERIENCE

Instructor, ETHZ Spring 2021, 2022

Introduction to Visual Machine Perception for Architecture, Construction, and Facility Management [101-0526-00L, website]

- Graduate course in the Department of Civil, Environmental, and Geomatic Engineering that attracted students from across departments such as that of Architecure and CS.
- Course Topic: Students learn fundamentals of visual machine perception as well as applications of this technology in the fields of architecture, construction, and facility management. They also build skills on computational thinking that bridge the application and technological perspectives of a problem, with coding and critical thinking on how to develop such an application.
- Developed the course curriculum. Taught 75% of the lectures.
- Guided students to develop the final course project.

Instructor, ETHZ Spring 2021, 2022

Deep Learning Seminar [263-5904-00L, website]

- Graduate seminar in the Department of Computer Science that attracted students from across departments such as that of Mechanical Engineering and Math. Also attracted students from EPFL.
- Course Topic: Students acquire a deep understanding of key contributions to the field of deep learning for vision (including a historical perspective and recent work). They also learn to critically read and analyse original research papers and judge their impact, as well as how to give a scientific presentation and lead a discussion on their topic.
- Selected the works to discuss and guided students in the discussion.

Instructor, ETHZ Autumn 2021

Mixed Reality [263-5905-00L, website], Co-instructed with Dr. Federica Bogo and Prof. Marc Pollefeys

- Graduate course in the *Department of Computer Science* that attracted students from across departments such as that of Mechanical Engineering, Architecture, and Math. Also attracted students from EPFL.
- Course Topic: Students acquire understanding of the foundations of 3D graphics, Computer Vision, and Human-Machine Interaction and a good overview of state-of-the-art Mixed Reality via guest lectures. They also learn how to build mixed reality apps and to critically analyze and assess current research in this area.
- Co-organized the class.
- Guided students to develop the final course project.

Instructor, Stanford University

Spring 2018, 2019

AI Applications in the AEC Industry [CEE329, website], Co-instructed with Prof. Martin Fischer

- Graduate course in the *Department of Civil and Environmental Engineering* that attracted students from CEE, CS and the Business School, as well as local professionals.
- Course Topic: Students learn how to think of and apply AI innovation in the AEC industry, by building skills on computational thinking that bridge the application and technological perspectives of a problem.
- Developed the course curriculum. Taught 70% of the lectures and work sessions.

MENTORSHIP

(Co-) Mentoring 2021-present

1 Ph.D. candidate (Cathrin Elich - MPI) on a research project, 3 M.S. student theses (Daniele Chiappalupi, Elena Iannucci, Sebastian Bommer), 7 M.S. students on research projects (Bingxin Ke, Boqi Chen, Tao Sun, Xuwen Chen, Yan Hao, Yuanwen Yue), & 11 M.S. students on course projects (Cyprien Fol, Dhruv Agrawal, Fei Bo Yi, Janik Lobsiger, Tianyu Wu, Veronique Kaufmann, Yiming Zhao, Yuanwen Yue, Yuchang Jiang, Yue Pan, Yujie He), ETHZ

PhD Mentor [TUM Mentoring]

2021-present

PhD student (Fiona Collins) supervised by Profs. Alex Braun and André Borrmann, TUM

External PhD Qualification Exam Committee Member

December 2021

PhD student (Shengyu Huang) supervised by Profs. Konrad Schindler and Andreas Wieser, ETHZ

PhD Qualification Exam Committee Member

May 2020

PhD student (Jianpeng Cao) supervised by Prof. Daniel Hall, ETHZ

(Co-) Mentoring 2016-2020

1 Ph.D. (Junwen Zheng), 3 M.S. (Ashwin Agrawal, Jerry Zhi-Yang He, Ishan Patil), & 1 High School (Joel Manning) students on research projects, Stanford University

SAIL Undergraduate Mentor for 2 students

2019-2020

Stanford AI Lab's mentoring program for undergraduate students in underrepresented groups

Stanford CURIS 2015

CS Undergraduate Research Internship program Advised 1 undergraduate student (Helen Jiang)

INVITED TALKS

EC3 Summer School July 2022 (upcoming)

Title: Computer Vision for the Circular and Lifecycle Assessment of Buildings European Conference on Computing in Construction (EC3) 2022, Summer School

CAS ETH ARC Digitalisation

November 13th, 2021

Title: Understanding 3D Visual Data for Architecture, Engineering, and Construction

School of Continuing Education, ETHZ. Switzerland

AI in Design Workshop, UIUC

August 5th, 2021

Title: Closing the information loop

AI in Construction Institute, University of Illinois Urbana-Champaign. USA

8th Computational AEC, Melbourne

July 29th, 2021

Title: AI and Computer Vision for AEC: The Good, The Bad, and The Ugly *Computational AEC Group. Melbourne, Australia*

Computational TIEC Group. Metodurite, Mustration

IAARC@Edinburgh July 16th, 2021

Title: 3D Scene Graph: A structured building information representation toward normalizing ego- and allocentric stakeholder communication

IAARC@Edinburgh and University of Edinburgh. Scotland

CEE329: AI Applications in the AEC Industry

April 22nd, 2021

Title: Introduction to Computer Vision for Architecture, Engineering, Construction, and Facility Management *Dept. of Civil and Environmental Engineering, Stanford University. USA*

University of Patras, Greece

November 9th, 2020

Title: Automatic generation of structured information on facility as-is status from visual data Dept. of Civil Engineering, University of Patras. Greece

AIA Symposium on AI in Architecture, Engineering, and Construction

October 20th, 2020

Title: Automatic generation of structured information on facility as-is status from visual data ETH Zurich Webinar Chaired by Benjamin Dillenburger & Matthias Kohler link

Autodesk AI Lab Sharing Session

September 30th, 2020

Title: Automatic generation of structured information on facility as-is status from visual data *Autodesk, AI Lab*

CEE595: AI in Construction Webinar

September 17th, 2020

Title: Automatic generation of structured information on facility as-is status from visual data Dept. of Civil and Environmental Engineering, University of Illinois Urbana-Champaign. USA

ECCV Workshop: Long-Term Visual Localization under Changing Conditions

August 28th, 2020

Title: Automatic generation of structured information on facility as-is status from visual data Workshop in European Conference on Computer Vision, 2020 (link)

1st Colloquium in AI4AEC

August 20th, 2020

Title: It's all about trust.

Co-presented with Andrew Cameron. Is AI Ready for the Building Industry? (and vice-versa) (link)

Technical University of Munich (TUM)

July 22nd, 2019

Title: Automatic generation of structured information on facility as-is status from visual data Dept. of Civil, Geo & Environmental Engineering, TUM. Germany

Ecole Polytechnique Fédérale de Lausanne (EPFL)

June 28th, 2019

Title: Automatic generation of structured information on facility as-is status from visual data *School of Architecture, Civil & Environmental Engineering, EPFL. Lausanne, Switzerland*

Swiss Federal Institute of Technology Zurich (ETHZ)

June 27th, 2019

Title: Automatic Generation of As-Built BIM by Parsing whole-Building Scans

Dept. of Civil, Environmental & Geomatic Engineering, ETHZ. Switzerland

Imperial College June 26th, 2019

Title: Automated semantic & operational understanding of buildings

Dept. of Civil & Environmental Engineering, Imperial College. United Kingdom

Technical Chamber of Corfu & Ionian University

January 7th, 2019

Title: 3DSCAN-to-BIM: From Tape Measure to Robotics

Technical Chamber of Corfu & Dept. of Informatics, Ionian University. Greece

Engineering News Record (ENR)

July 26th, 2018

Title: Getting the ROI out of AI Webinar

Chicago Society for Construction Solutions

March 28th, 2017

Title: Reflecting building changes and is-status in construction and use phases

Chicago, USA

Princeton University May 16th, 2016

Title: Semantic Parsing of Large-Scale Indoor Spaces

CS Dept., Princeton University. USA

Engineering News Record Future Tech

June 2nd, 2016

Title: 3DScan-to-BIM: Automatic Generation of As-Built BIM by Parsing whole-Building Scans

San Francisco, USA

PRESS COVERAGE

AI in Podcast, 2021, 3D Scene Graph and AI-AEC applications, [link]

Computer Vision News, 2018, Women in Computer Vision, [link]

Stanford News, 2016, A new computer vision system creates 3-D maps of building interiors, [link]

SPAR3D, 2016, Stanford Innovation Makes Point Clouds Smart, [link]

KZSU Stanford Unviersity's radio station, 2016, The Modern Architect, [link]

PROFESSIONAL SERVICE

Co-Organizer 2022 (upcoming)

2nd Workshop and Challenge on Computer Vision in the Built Environment for the Design, Construction, and Operation of Buildings

Computer Vision and Pattern Recognition (CVPR), Conference, 2022

Organizer 2021-2022

2nd Colloquium on AI4AEC, Built to Change - Let's reuse buildings not AEC practices [link]

Session 1 - 23/11/2021 | Session 2 - 17/01/2022 | Session 3 - 09/02/2022

Area Chair November-February 2022

Computer Vision and Pattern Recognition (CVPR) Conference 2022

Co-Organizer October 15th, 2021

AI in AEC Workshop

AI + X Summit 2021, ETHZ AI Center, Switzerland

Co-Organizer 2021 1st Workshop and Challenge on Computer Vision in the Built Environment for the Design, Construction, and Operation of Buildings [link] Computer Vision and Pattern Recognition (CVPR), Conference, 2021 August 19th-20th & 26th, 2020 **Organizer** 1st Colloquium on AI4AEC, Is AI Ready for the Building Industry? (and vice-versa) [link] **October 19th, 2019 Pop-up Guest Lecture** Workforce Virtual Design and Construction (VDC) BIM Bootcamp **Student Volunteer Chair** 2019 International Conference on Computer Vision (ICCV), Conference, 2020 Challenge Advisor 2019 Scene Understanding and Modeling (SUMO) Challenge **Program Director & Curriculum Chair** 2016 Stanford Artificial Intelligence Laboratory's Outreach Summer Program (SAILORS) **Website Chair** 2016 4th International Conference on 3D Vision (3DV 2016) **Admissions Chair** 2015 Stanford Artificial Intelligence Laboratory's Outreach Summer Program (SAILORS) Co-Organizer 2014 Bay Area Vision Meeting (BAVM) Organizer: Computer Vision and Geometry Lab, Stanford University

Reviewer for:

Co-Organizer

- Journal of Computing in Civil Engineering (**CPENG**)
- Journal of Automation in Construction (AUTCON)
- European Conference on Computing in Construction (EC3)

Organizer: Computer Vision and Geometry Lab, Stanford University

- Design Computation Conference I/O (DC I/O)
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

Office of Naval Research (ONR) Workshop on Structured Learning for Scene Understanding

- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- International 3D Vision Conference (3DV)
- Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**)
- Transactions on Visualization and Computer Graphics (TVCG)
- International Journal of Computer Vision (IJCV)
- Image and Vision Computing Journal (IMAVIS)
- ISPRS Journal of Photogrammetry and Remote Sensing ((**P&RS**))
- Asian Conference on Computer Vision (ACCV)
- Transactions on Mobile Computing Journal (TMC)

Memberships:

- Member, American Society of Civil Engineers (ASCE)
- Licensed Professional Engineer, Technical Chamber of Greece

2014

PROFESSIONAL EMPLOYMENT

Canon U.S.A. | Senior Research Intern

2016

Canon U.S.A., Imaging System Research (ISR), California, USA

University of Cambridge | Graduate Researcher

2013-2015

Dept. of Engineering. Area: Computer Vision/Construction Engineering Cambridge, UK

Corfu Museum of Asian Art | Architect Engineer

2012-2013

Architectural Design and Exhibition Planning

Corfu, Greece

Green Lab | 3D Design Consultant

2013-2014

Dept of Informatics, Ionian University. Project: Digital Representation of Historical Buildings in the Ionian Islands

Corfu, Greece

Freelance | Architect Engineer

2011-2013

Architectural Design, Landscape and Interior *Corfu, Greece*

Zerefos Tessas Architects | Intern

2008-2009

Architectural Design *Athens, Greece*

REFERENCES

From Civil and Env. Engineering

From Computer Science Marc Pollefeys

Daniel Hall

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Silvio Savarese

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