

Giovanni Loreto
College of Architecture and Construction Management
Kennesaw State University
Marietta, GA 30060
<https://scholar.google.com/citations?user=GhmYwmUAAAAJ&hl=en>
Email: gloreto@kennesaw.edu | Phone: (305) 773 – 8896

Education

01/2011

PhD, Civil Engineering, Faculty of Engineering, Università degli Studi di Napoli “Federico II”, Italy
Dissertation title: “Corrosion Detection for Health Monitoring of RC Structures”
Advisors: Prof. Antonio Nanni, Prof. Renato Iovino

07/2006

Laurea (BS/MS, 5-years program) Architectural and Construction Engineering, Università degli Studi di Napoli “Federico II”, Faculty of Engineering, Italy
Thesis title: “Retrofit and Rehabilitation of the Church of San Nicolaikirche (Zerbst-Sachsen Anhalt, Germany)”
Advisor: Prof. Renato Iovino
Final mark: 110/110 *cum laude*

Professional Certification

04/2007

Registered Professional Engineer in Italy (Albo Ingegneri di Salerno, No. PE 5360)

Scholarly Experience

06/2016 – present

Assistant Professor (tenure track), College of Architecture and Construction Management, *Kennesaw State University (KSU)*, Marietta, GA.

- **KSU 2020-21 Provost’s Faculty Leadership Fellow.**
- **Strategic Plan Coordinator** for the Department of Architecture and Construction Management at KSU.
- **Advisor** for the National Organization of Minority Architects (**NOMAS**) KSU chapter.
- **ACSA Liaison** for the KSU Department of Architecture.
- Structural engineering and architectural design. **Second-year studio Coordinator**, and **structure sequence co-coordinator** with design, building systems technology, computational methods, professional practice, theory and other subject areas.
- Research focus on next generation building systems and construction materials.

05/2014 – 06/2016

Postdoctoral Associate, Department of Civil and Environmental Engineering, *Georgia Institute of Technology*, Atlanta, GA.

Project title: “Self-Consolidating Concrete Construction for Modular Units”

- Development of innovative self-consolidating concrete mixtures with enhanced shear-friction capacity between cold joints.
- Conducting multiscale evaluation tests. Assessment of cold joint shear-friction capacity. Shear and flexural performance of steel composite elements, validation through full-scale testing and modeling.

01/2012 – 04/2014

Assistant Director, National Science Foundation Industry/University Cooperative Research Center (NSF I/UCRC) for Integration of Composites into Infrastructure, *University of Miami*, Miami, FL.

ISO/IEC 17025 and IAS AC89 Accredited Laboratory

- Establishing and overseeing research initiatives of faculty
- Researched Fiber Reinforced Cementitious Matrix (FRCM) composite materials for structural retrofit.
- Performed evaluation tests on reinforced concrete and masonry structures.

08/2011 – 04/2013

Postdoctoral Associate, Department of Civil, Architectural and Environmental Engineering, *University of Miami*, Miami, FL.

Project title: "Self-Powered Wireless Sensor Network for Structural Bridge Health Prognosis"

- Examined acoustic emission for structural health monitoring of reinforced concrete structures.
- Conducted acoustic emission intensity analysis for in situ evaluation.

01/2010 – 11/2010

Visiting Research Scholar, Department of Civil, Architectural and Environmental Engineering, *University of Miami*, Miami, FL.

Project title: "Durability of Reinforced Concrete in Marine Environment"

- Developed a methodology for service life prediction and assessment of reinforced concrete structures affected by corrosion.

01/2008 – 12/2010

Research Assistant, Department of Building Engineering, Faculty of Engineering, *Università degli Studi di Napoli "Federico II"*, Italy.

Project title: "Assessment of Existing Reinforced Concrete and Masonry Buildings"

- Performed pseudo-dynamic tests of reinforced concrete and unreinforced masonry walls.
- Researched the use of autoclaved cellular concrete in seismic areas.
- Examined the use of non-destructive evaluation techniques (i.e., half-cell potential, EIS, LPR, etc.) for structural health monitoring.

01/2006 – 06/2006

Exchange Student, Institute for History, Architecture and Preservation (Bauingenieurwesen, Institut für Baugeschichte, Architekturtheorie, und Denkmalpflege), Faculty of Civil Engineering, *Technische Universität Dresden*, Germany.

Project title: "Rehabilitation of Historical Buildings"

- Examined retrofit techniques for unreinforced masonry structures.

Research Interests and Current Projects

My primary research work examines the design and construction of high performing construction systems, from materials to structures, while integrating with other disciplines in both architecture and engineering. Within this area, my interests are focused on: sustainable construction materials and practices, advanced cementitious and composite materials, innovative construction techniques for reinforced concrete structures, nondestructive evaluation methods for monitoring and assessment of structures, structural performance evaluation, and engineering and architecture education.

Funded

08/2021 – 07/2025

Pragmatic Precast/Prestressed Girders Acceptance Criteria

Georgia Department of Transportation

\$465,000

L. Stewart, L. Kahn, C. Arson, **G. Loreto**

Role: co-PI

05/2021 – 04/2026

Innovation, Design, and Sustainability in Concrete Constructions

KSU Vertically Integrated Project (VIP)

\$5,000 first year

G. Loreto, A. Soleimani, D. Kuemmerle, R. Emert

Role: PI

08/2020 – 05/2021

Non-Rigid Formwork System in Concrete Applications

Office of the Vice President for Research at Kennesaw State University

\$11,880

G. Loreto, A. Soleimani

Role: PI

07/2020 – 06/2021

Living Surfaces: Defying Walls

American Institute of Architects (AIA) GA, Georgia AIA Innovation Grant Program,

\$4,903

K. Karimi, **G. Loreto**, A. Soleimani

Role: PI

08/2020 – 05/2024

Integrating Precast: Threads of Constructability, Complexity and Constraint

PCI Foundation

\$100,000

L. Martin, **G. Loreto**, J. Collins

Role: co-PI

08/2020 – 07/2023

Recommendations for Extension in Service Life of ASR-Affected Concrete

Georgia Department of Transportation

\$399,941

L. Stewart, K. Kurtis

\$34,274 sub-award

Kennesaw State University Research and Service Foundation

KSU PI: **G. Loreto**

07/2020 – 06/2021

Learning with CyberPLAYce – A Cyber-physical Learning Tool Promoting Computational Thinking for Elementary Students

Creative Activities and Research Experiences for Teams, Kennesaw State University

\$8,000

A. Soleimani, **G. Loreto**

Role: co-PI

07/2019 – 06/2020

F.A.B.R.I.C.S. (Flexible Architectural Basis Reinforcement In Concrete Structures)

Creative Activities and Research Experiences for Teams, Kennesaw State University

\$8,000

G. Loreto, A. Soleimani, T. Frank, M. Monaghan, D. Kuemmerle

Role: PI

05/2018 – 12/2021

Best Practices and Specification for Massive Concrete Drilled Shaft

Georgia Department of Transportation

\$258,000

L. Stewart, L. Kahn

\$33,597 sub-award

Kennesaw State University Research and Service Foundation

KSU PI: **G. Loreto**

04/2018 – 03/2022.

Development of GDOT Ultra High Performance Concrete in Accelerate Bridge Construction

Georgia Department of Transportation

L. Stewart, K. Kurtis, L. Kahn

\$417,000

Role: Senior Personnel

01/2018 – 12/2019

A Refuge for Refugees

American Institute of Architects (AIA) GA, Georgia AIA Innovation Grant Program,

\$5,000 (+\$5,000 from private donor)

G. Loreto, K. Karimi, A. Soleimani

Role: PI

04/2017 – present

Design Analytics Lab (DAL)

\$30,000

A. Soleimani, **G. Loreto**

Role: co-Founder

Under Review

2021 – 2024

Learning with CyberPLAYce – A Cyber-physical Learning Environment Promoting Children’s Computational Thinking

\$352,140

A. Soleimani, **G. Loreto**, Tiffany Roman

Role: co-PI

Pilot Trials

10/2019 – present

Acoustic Emissions for Structural Health Prognosis

G. Loreto

Role: PI

08/2018 – present

Understanding Structural Modeling in Architectural Educational Settings

G. Loreto

Role: PI

Publications

Published and Accepted Journal Articles

1. Sanborn, M., **Loreto, G.**, Stewart, L.K. (2020) "Method for Evaluating Impulsive Shear and Residual Capacity Behavior of Bolted Connections," *Engineering Structures*, 220.
2. **Loreto, G.**, Di Benedetti, M., De Luca, A., Nanni, A. (2018) "Assessment of RC Structures in Marine Environment: a Case Study," *Corrosion Reviews*, 37 (1).
3. Kim, G., **Loreto, G.**, Kurtis, K., Wall, J.J., Jacobs, L.L. (2018) "In Situ Nonlinear Ultrasonic Technique for Monitoring Microcracking in Concrete Subjected to Creep and Cyclic Loading," *Ultrasonic*, 88 (64-71).
4. **Loreto, G.**, Leardini, L., Babaeidarabad, S., and Nanni, A. (2015) "RC Beams Shear-Strengthened with Fabric-Reinforced-Cementitious-Matrix (FRCM) composite," *Advances in Structural Engineering*, 7 (341).
5. Babaeidarabad, S., **Loreto, G.**, Arboleda, D., and Nanni, A. (2015) "FRCM-Strengthened CMU Masonry Walls Subjected to Out-of-Plane Load," *The Masonry Society Journal*, 32 (1).
Recipient of the TMS Journal Outstanding Award.
6. Babaeidarabad, S., Arboleda, D., **Loreto, G.**, and Nanni, A. (2014) "Shear Strengthening of Un-reinforced Concrete Masonry with Fabric-Reinforced-Cementitious-Matrix," *Elsevier Construction & Building Materials*, 65 (243-253).
7. Babaeidarabad, S., **Loreto, G.**, and Nanni, A. (2014) "Flexural Strengthening of RC Beams with Externally-Bonded Fabric-Reinforced-Cementitious-Matrix (FRCM)," *ASCE Journal of Composites for Construction*, 18(5).
8. Di Benedetti, M., **Loreto, G.**, Matta, F., and Nanni, A. (2014) "Acoustic Emission Historic Index and Frequency Spectrum of Reinforced Concrete under Accelerated Corrosion," *ASCE Journal of Materials in Civil*

Engineering, 26(9).

9. **Loreto, G.**, Leardini, L., Arboleda, D., and Nanni, A. (2013) "Performance of RC Slab-Type Elements Strengthened with Fabric-Reinforced-Cementitious-Matrix (FRCM) Composites," *ASCE Journal of Composites for Construction*, SPECIAL ISSUE: 10th Anniversary of IIFC, 18(3).
10. Di Benedetti, M., **Loreto, G.**, Matta, F., and Nanni, A. (2013) "Acoustic Emission Monitoring of Reinforced Concrete under Accelerated Corrosion," *ASCE Journal of Materials in Civil Engineering*, 25(8).
11. **Loreto, G.**, Di Benedetti, M. and Nanni, A. (2011) "Durability of Reinforced Concrete in Marine Environmental: a Simplified Model for Service Life Prediction," *International Journal of 3R's*, 2(2).

Submitted Journal Articles

1. **Loreto, G.**, Di Benedetti, M., and Nanni, A. (2021) " Axial Testing of Reinforced Concrete Columns Strengthened with Fabric-Reinforced-Cementitious-Matrix (FRCM)," *ASCE Journal of Composites for Construction*.
2. **Loreto, G.**, Gentry, R., Kurtis, K., Kahn, L. (2021) "Development of Self-Consolidating Concrete Mixture with Enhanced Shear Friction Capacity," *Elsevier Construction & Building Materials*.

Journal Articles In Preparation

1. **Loreto, G.**, Gentry, R., Kurtis, K., Kahn, L. "Investigating Shear Friction Behavior in Externally Reinforced Steel Composite Structures," *ACI Structural Journal*.
2. **Loreto, G.**, Gentry, R., Kurtis, K., Kahn, L. "Steel Composite (SC) Structures with Optimized SCC for Cold-Joint Applications," *ASCE Journal of Structural Engineering*.
3. **Loreto, G.** "Assessment of RC Structures in Marine Environment Using Acoustic Emission," *2nd International Symposium on Sustainable Construction (SustaCon)*, online, September 2-3, 2021.
4. **Loreto, G.** "The role of Formworks in Sustainable Concrete Constructions," *2nd International Symposium on Sustainable Construction (SustaCon)*, online, September 2-3, 2021.
5. **Loreto, G.** "Integrating the Use of Precast for Design and Analysis in Structure Courses," *Practical Engineering Education Conference - PEE21*, The Diamond, Sheffield UK September 16-17, 2021.

Conference Presentation with Proceedings (Refereed)

1. Martin, E., **Loreto, G.**, Collins, J. "Curriculum (Re)design: Threads of Constructability, Complexity and Constraint," *ARCC-EAAE 2022: Resilient City: Physical, Social, and Economic Perspectives*, March 2-5, 2022, FIU, Miami, FL.
2. Soleimani, A., Karimi, Z., **Loreto, G.** (2021) "A Refuge for Refugees: An Architectural Intervention in the City of Clarkston" DCA Conference 2021, Marietta, GA October 20-23. In-press.
3. Adhikari, S., Collins, J., **Loreto, G.**, Nguyen, T.D. (2021) "The Use of Parametric Modeling to Enhance the Understanding of Concrete Formwork Structures" *ASEE Annual Conference and Exposition, Virtual Meeting*, July 26-29.
Recipient of the ASEE Best Paper Award.
4. **Loreto, G.**, Soleimani, A., Stewart, L. (2021) "Non-Rigid Formwork System for Sustainable Concrete Construction" *ARCC 2021 Conference, Virtual*, Tucson, AZ April 7-10.
5. **Loreto, G.** (2019) "Hybrid Method for Enhancement of Structural Understanding in Architecture Students" *ASEE Annual Conference and Exposition*, Tampa, FL June 16-19.
6. Miller, A.A., **Loreto, G.**, Gao, N., Kahn, L.F., Kurtis, K., Stewart, L. (2019) "Application of Ultra High Performance Concrete in Bridge Construction" *Second International Interactive Symposium on UHPC*, Albany, NY June 2-5.
7. Soltani, M., Tetreault, J.R., Eslami, M., and **Loreto, G.** (2018) "Exploratory Review of Reinforcing Solutions for Precast Concrete 3-D Printing" *Precast/Prestressed Concrete Institute (PCI) Convention and National Bridge Conference*, Denver, CO February 24-24.

8. Stewart, L. K., Gao, N., Pezzola, G., Sanborn, M., Sanborn, K., Nail, A., and **Loreto, G.** (2017) "Georgia Institute of Technology Laboratory for Blast, Shock, and Impact," *7th International Conference on Advances in Experimental Structural Engineering*, Pavia, Italy, September 6-8.
9. **Loreto, G.**, Babaeidarabad, S., De Caso y Basalo, F., J., and Nanni, A. (2016) "Axial Testing of Reinforced Concrete Columns Strengthened with Fabric-Reinforced-Cementitious-Matrix (FRCM) Composite," *7th International Conference on Advanced Composite Materials in Bridges and Structures*, Vancouver, British Columbia, Canada, August 24-26.
10. Kim, G., **Loreto, G.**, Kim, J.Y., Kurtis, K.E., Wall, J.J., Jacobs, L.J. (2016) "Monitoring Creep Damage and Microstructure Evolution in Concrete Using Nonlinear Rayleigh Waves," *43rd Annual Review of Progress In Quantitative Nondestructive Evaluation (QNDE)*, Atlanta, Ga, July 17-22
11. **Loreto, G.**, Gentry, R., Kurtis, K., Kahn, L. (2016) "Self-Roughening Concrete with Enhanced Shear Friction Capacity for Cold Joint Applications," *RILEM International Concrete Sustainability Conference*, Washington, DC, May 15-18.
12. Babaeidarabad, S., **Loreto, G.**, Arboleda, D., and Nanni, A. (2014) "Flexural Behavior of RC Beams Strengthened with Fabric-Reinforced- Cementitious-Matrix (FRCM) Composite," *The 7th International Conference on FRP Composites in Civil Engineering (CICE)*, Vancouver, Canada, August 20-22.
13. **Loreto, G.**, Mantegazza, G., and Nanni, A. (2014) "Prestazioni di Lastre in C.A. Rinforzate con Composito FRCM (Fabric Reinforced Cementitious Matrix)," *Giornate AICAP 2014*, Bergamo, Italy, May 22-24.
14. Leardini, L., **Loreto, G.**, Poggi, C., and Nanni, A. (2014) "Studio Sperimentale del Comportamento a Taglio di Travi in C.A. Rinforzate con Fabric Reinforced Cementitious Matrix (FRCM)," *Rehanbend 2014*, Santander, Spain, April 1-4.
15. Leardini, L., **Loreto, G.**, Poggi, C., and Nanni, A. (2013) "Shear Experimental Analysis of RC Beams Strengthened with FRCM," *39th World Congress on housing Science*, Milano, Italy, September 17-20.
16. Arboleda, D., **Loreto, G.**, De Luca, A., and Nanni, A. (2012) "Material Characterization of Fiber Reinforced Cementitious Matrix (FRCM) Composite Laminates," *X Simposio Internacional del Ferrocemento y Compuestos Delgados de Cemento Reforzado and 6 Conferencia Latinoamericana y del Caribe del FERROCEMENTO*, Havana, Cuba, October 15-17.
17. Verbovszky, S., Loreto, G., DeLuca, A., and Nanni, A. (2012) "Experimental Analysis of Twist-Off and Pull-Off Testing Methodologies to Measure the Bond Strength Between GFRP and Concrete," *Bound in Concrete (BIC) 2012*, Brescia, Italy, June 17-20.
18. **Loreto, G.**, Di Benedetti, M. and Nanni, A., (2012) "Evaluation of Concrete Structures in Marine Environment – Geiger Key Bridge," *SPIE – Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security*, San Diego, CA, March 11-15.
19. Di Benedetti, M., De Cais, E., Karim, Z., **Loreto, G.**, Presuel, F. and Nanni, A. (2012) "Acoustic Emission Characterization of the Onset of Corrosion in Reinforced Concrete," *SPIE – Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*, San Diego, CA, March 11-15.
20. Di Benedetti, M., **Loreto, G.**, Nanni, A., Matta, F., and Gonzalez-Nunez, M.A. (2011) "Continuous Acoustic Emission Monitoring of Reinforced Concrete under Accelerated Corrosion," *SPIE – Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security*, San Diego, CA, March 6-10.
21. **Loreto, G.**, Di Benedetti, M., Iovino, R., Nanni, A. and Gonzalez-Nunez, M.A., (2011) "Evaluation of Corrosion Effect in Reinforced Concrete by Chloride Exposure" *SPIE – Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security*, San Diego, CA, March 6-10.
22. **Loreto, G.**, Iovino, R. (2010) "Evaluation of Corrosion in Concrete by Chloride Exposure - First Results," *37 IAHS World Conference on Housing*, Santander, Spain, October 26-29.
23. **Loreto, G.**, Sannino, F., Iovino, R. (2009) "Architectonical and Constructive Aspects of the Monastery of San Giovanni in Parco, Nocera Inferiore (SA)," *National Conference of Historic of Engineering*, Napoli, Italy, April

27-30.

24. **Loreto, G.**, Solimene, R., Iovino, R. (2009) "The Use of Autoclaved Cellular Concrete in Earthquake Zone," *ARTEC Conference - Il sisma. Ricordare, prevenire, progettare*, Messina, Italy, November 18-21.
25. **Loreto, G.** (2009) "Characterization of the Degradation Processes Induced in Concrete Through Different Types of Ageing," *Fifth CODAT Conference*, Messina, Italy, November 18-21.

Books, Book Chapters and Special Publications

Loreto, G. (2009) "Le Curve Naturali d'Incendio nell'Approccio Ingegneristico alla Sicurezza Antincendio: il Caso Studio di una Scuola Media Superiore," in Iovino, R., Fascia, F., "La Prevenzione Incendi nell'Architettura – Tecnica e Tecnologia" - Aracne Editore.

Presentations

Invited Conference and Workshop Presentations

Loreto, G., Gentry, R., Kurtis, K., Kahn, L. "Self-Consolidating Concrete Construction for Modular Units," *AMM Workshop, Department of Energy (DOE)*, October 17-18, 2016, Germantown, MD.

Loreto, G., Gentry, R., Kurtis, K., Kahn, L. "Development of a Self-Roughening Concrete for Modular Units," *Advanced Nuclear Manufacturing Conference*, May 18-20, 2015, Pocatello, ID.

Loreto, G., Gentry, R., Kurtis, K., Kahn, L. "Self-Consolidating Concrete Construction for Modular Units," *DOE Annual Meeting, Electric Power Research Institute*, October 21, 2014, Charlotte, NC.

Conference and Workshop Presentations

Sadler, S. (speaker), Meditz, M. (speaker), Kuemmerle, D., **Loreto, G.** "Sustainable Building Materials of the Future: Architectural Forms and Structural Design" *25th Annual Symposium of Students Scholar*, KSU, April 29, 2021.

Loreto, G., Soleimani, A., Stewart, L. "Non-Rigid Formwork System for Sustainable Concrete Construction" *ARCC Virtual Conference 2021* April 9, 2021.

Martin, E., Collins, J., **Loreto, G.**, "Collaborative Studio: Constructability, Complexity, Constraint" *ARCC Virtual Conference 2020*, April 18, 2020.

Rodriguez, M. (speaker), Brown, H., **Loreto, G.** "Non-rigid Formwork Systems with Engineered Cementitious Composite" *2020 Spring ACI Convention, ACI-Undergraduate Research on Concrete Materials, Structural Design, or Construction*, Rosemont, IL March 28-31, 2020.

Fullbeck, A. (speaker), **Loreto, G.** "L.I.F.E. is beautiful" *Poster accepted for presentation at the National Conference on Undergraduate Research*, Bozeman, MT. March, 2020. [Note: This conference was canceled due to public health concerns related to COVID-19].

Moore, N, **Loreto, G.** "L.I.F.E. is beautiful" *Poster accepted for presentation at the National Conference on Undergraduate Research*, Bozeman, MT. March, 2020. [Note: This conference was canceled due to public health concerns related to COVID-19].

Small, B. (Speaker), **Loreto, G.** "Primary Focus" *ACSA Fall 2019 Conference- LESS TALK | MORE ACTION: Conscious Shifts in Architectural Education, Soft Boundary [4x4]: A Critical Look at Undergraduate Research in Architectural Education*, Stanford, CA, September 13-14, 2019.

Powell, J. (speaker), **Loreto, G.** "In Memory of Nuclear Waste | Architecture that Endures Millenniums" *The National Conference on Undergraduate Research*, Kennesaw, GA. March, 2019.

Porter, D. (speaker), **Loreto, G.**, Martin, E. "Vertical Essence: the rehabilitation of social housing" *The National Conference on Undergraduate Research*, Edmond, OK April 5-7, 2018.

Loreto, G. "Hybrid Method for Enhancement of Structural Understanding in Architecture Students" *ASEE Annual Conference and Exposition*, June 16-19, 2019, Tampa, FL.

Ayers, C. (speaker), Soleimani, A., **Loreto, G.** "Non-rigid Formwork Systems with Optimized Concrete Mixtures" *ACI Convention Fall, Poster session*, October 14-19, 2018, Las Vegas, NV.

- Porter, D. (speaker), **Loreto, G.**, Martin, E. "Vertical Essence: the rehabilitation of social housing" *The National Conference on Undergraduate Research (NCUR)*, Edmond, OK April 5-7, 2018.
- Loreto, G.** "Assessment of RC Structures in Marine Environment: A Case Study" *ACI Convention Spring*, March 25-29, 2018, Salt Lake City, UT.
- Loreto, G.** "Reliability Analyses of Interface Shear Transfer in AASHTO LRFD and the Alternative Model" *ACI Convention Fall*, October 15-18, 2017, Los Angeles, CA.
- Loreto, G.**, Cardelino, N., Gentry, R., Kurtis, K., Kahn, L. "In-Plane and Out-of-Plane Performances of Externally Reinforced Composite Structures using optimized Self-Consolidating Concrete" *ACI Convention Spring*, March 26-30, 2017, Detroit, MI.
- Loreto, G.** "Acoustic Emissions Applications to Structural Engineering," *Civil Engineering Distinguished Lecture Series at University of Salerno*, December 21, 2016, Salerno, Italy.
- Loreto, G.** "Investigating Shear Friction Behavior in Externally Reinforced Steel Composite (SC) Structure," *ACI Convention Fall*, October 22-26, 2016, Philadelphia, PA.
- Loreto, G.**, Gentry, R., Kurtis, K., Kahn, L. "Self-Roughening Concrete with Enhanced Shear Friction Capacity for Cold Joint Applications," *International Concrete Sustainability Conference*, May 15-18, 2015, Washington, DC.
- Loreto, G.** "Performance of RC Axial-Type Element Strengthened with FRCC Composites," *ACI Convention Spring*, April 17-21, 2016, Milwaukee, WI.
- Loreto, G.** "Development of a Self-Roughening Concrete (SRC) for Cold Joints in Walls," *1st Postdoctoral Research Symposium, Georgia Institute of Technology* September 19, 2014, Atlanta, GA.
- Loreto, G.** "University of Miami Research Projects," *NSF I/UCRC for "Integration of Composites into Infrastructure" Industrial Advisory Board Meeting*, January 29, 2012, Orlando, FL.
- Loreto, G.** "University of Miami Research Projects," *NSF I/UCRC for "Integration of Composites into Infrastructure" Industrial Advisory Board Meeting*, June 28, 2012, Morgantown, WV.
- Loreto, G.** "University of Miami Research Projects," *NSF I/UCRC for "Integration of Composites into Infrastructure" Industrial Advisory Board Meeting*, January 28, 2012, Miami, FL.
- Loreto, G.** "Rehabilitation of the Geiger Creek Bridge," *ACI Convention Spring*, 3-7 April, 2011, Tampa, FL.

Teaching

Courses Taught

Kennesaw State University

ARCH 2003 Architecture Studio 3

<i>Semester</i>	<i>Year</i>	<i>Number of Student</i>	<i>Course evaluation</i>	<i>Instructor Evaluation</i>
Fall	2020	16	3.70/4.00	3.90/4.00
Fall	2019	14	3.50/4.00	3.70/4.00
Fall	2018	16	3.50/4.00	3.75/4.00
Fall	2017	12	3.90/4.00	3.90/4.00
Fall	2016	16	3.80/4.00	3.90/4.00

ARCH 2004 Architecture Studio 4

<i>Semester</i>	<i>Year</i>	<i>Number of Student</i>	<i>Course evaluation</i>	<i>Instructor Evaluation</i>
Spring	2021	17	4.00/4.00	4.00/4.00
Spring	2018	11	3.60/4.00	3.75/4.00
Spring	2017	15	3.60/4.00	3.70/4.00

ARCH 3211 Architecture Structure 2

<i>Semester</i>	<i>Year</i>	<i>Number of Student</i>	<i>Course evaluation</i>	<i>Instructor Evaluation</i>
Fall	2020	36	3.80/4.00	3.90/4.00
Fall	2019	30	3.90/4.00	3.90/4.00
Fall	2018	22	3.60/4.00	3.75/4.00

Fall	2017	28	3.80/4.00	3.85/4.00
Fall	2016	20	3.80/4.00	3.85/4.00

ARCH 3212 Architecture Structure 3

<u>Semester</u>	<u>Year</u>	<u>Number of Student</u>	<u>Course evaluation</u>	<u>Instructor Evaluation</u>
Spring	2021	Section 1, 25	4.00/4.00	4.00/4.00
Spring	2021	Section 2, 27	3.90/4.00	3.90/4.00
Spring	2020	Section 1, 30	-	-
Spring	2020	Section 2, 27	-	-
Spring	2019	Section 1, 17	4.00/4.00	4.00/4.00
Spring	2019	Section 2, 20	3.60/4.00	3.70/4.00
Spring	2018	Section 1, 26	3.80/4.00	3.80/4.00
Spring	2018	Section 2, 28	3.60/4.00.	3.70/4.00
Spring	2017	34	3.40/4.00	3.60/4.00

ARCH 5016 Thesis Research

<u>Semester</u>	<u>Year</u>	<u>Number of Student</u>	<u>Course evaluation</u>	<u>Instructor Evaluation</u>
Fall	2020	2	-	-
Fall	2019	3	3.80/4.00	4.00/4.00
Fall	2018	1	-	-
Fall	2017	3	-	-
Fall	2016	2	4.00/4.00	4.00/4.00

ARCH 5017 Thesis Design Studio

<u>Semester</u>	<u>Year</u>	<u>Number of Student</u>	<u>Course evaluation</u>	<u>Instructor Evaluation</u>
Spring	2021	2	-	-
Spring	2020	3	-	-
Spring	2019	1	4.00/4.00	4.00/4.00
Spring	2018	3	-	-
Spring	2017	2	4.00/4.00	4.00/4.00

Summer 2017

CEE 3051 Introduction to Structural Engineering

Georgia Institute of Technology – Study Abroad (London)

Attendance: 25. Course evaluation: 4.80/5.00. Instructor Evaluation: 4.90/5.00

CEE 4803 Design and Construction of Historic Structures

Georgia Institute of Technology – Study Abroad (London)

Attendance: 19. Course evaluation: 4.80/5.00. Instructor Evaluation: 4.80/5.00

Spring 2016

ARCH 6532 Environmental Systems II

Georgia Institute of Technology

Attendance: 14. Course evaluation: 4.40/5.00. Instructor Evaluation: 4.80/5.00

Spring 2012

ARC 531 Building Technology II - Instructor

University of Miami

Attendance: 14. Course evaluation: 4.55/5.00. Instructor Evaluation: 4.80/5.00

Summer 2012

CAE100 Introduction to Civil, Architectural, and Environmental Engineering - Lecturer

University of Miami

Attendance: 16. Course instructor: F. De Caso y Basalo

Winter/Spring 2009

Building Technology 2 - Lecturer

Università degli Studi di Napoli “Federico II” – Faculty of Engineering

Attendance: 90. Course instructor: Dr. R. Iovino

Design of Building Components - Instructor

Università degli Studi di Napoli "Federico II" – Faculty of Engineering

Attendance: 63. Course evaluation: 4.75/5.00. Instructor Evaluation: 4.90/5.00

Fall 2008

Technologies for Building Recovery - Teaching Assistant

Università degli Studi di Napoli "Federico II" – Faculty of Engineering

Attendance: 70. Course instructor: Dr. F. Fascia

Building Technology 2 - Teaching Assistant

Università degli Studi di Napoli "Federico II" – Faculty of Engineering

Attendance: 90. Course instructor: Dr. R. Iovino

Winter/Spring 2008

Design of Building Components - Teaching Assistant

Università degli Studi di Napoli "Federico II" – Faculty of Engineering

Attendance: 60. Course instructor: Dr. R. Iovino

Building Technology 1 - Teaching Assistant

Università degli Studi di Napoli "Federico II" – Faculty of Engineering

Attendance: 110. Course instructor: Dr. F. Fascia

Individual Students Guidance**Undergraduate Students (B.Arch. with thesis)**

14. Huntington Brown, *Embedded Form: Using Structure to Inform Engaging Spaces Responsive to the Human Experience*, Spring 2021.
13. Lindsay Pannel, *Retrofitting the Future*, Spring 2021.
12. Adalla Fullbeck, *L.I.F.E. is Beautiful*, Spring 2020.
11. Douglas Reid, *The Factories: Bringing a Derelict Icon into the New Age*, Spring 2020.
10. Breck Small, *Primary Focus*, Spring 2020.
9. Jacob Powell, *In Memory of Nuclear Waste | Architecture that Endures a Millennia*, Spring 2019.
8. Joel Lee, *Re-HANOK-ization*, Spring 2018.
7. Didier Porter, *Vertical Essence*, Spring 2018.
6. Rana al Rawi, *Post-War Learning Environments: Redefining Schools Designs in Iraq*, Spring 2018.
5. Alexis Corrao, *Restitching Metro Atlanta*, Spring 2017. (Co-advised with E. Martin)
4. Antonio Hinson, *Healing Architecture: Engagement, Nature, Community*, Spring 2017. (Co-advised with E. Martin)
3. Maria Jarda, *A Formal Building Dress*, Spring 2017. (Co-advised with E. Martin)
2. Yuanyuan Xiao, *Urban Space Regeneration*, Spring 2017. (Co-advised with E. Martin)
1. Zeyue Zhang, *Secret Place: Generated from Place and Non-Place*, Spring 2017. (Co-advised with E. Martin)

Service on thesis or dissertation committees**M.S. Students - External, Graduated with M.S. Thesis**

2. Sung Yeob Lim "Ultra-High Performance Concrete for Closure Pours Between Precast Concrete Deck Panels" Georgia Institute of Technology, April 2021. Advisor(s): Dr. Lauren Stewart.
1. Aaron Miller "Georgia Institute of Technology, "Development and Optimization of Ultra-High Performance Concrete Using Local Materials" April 2020. Advisor(s): Dr. Kimberly Kurtis and Dr. Lauren Stewart.

PhD - External

2. Ahmal Shalan "Assessment of Limetone Portland Cement for Structural Applications" Georgia Institute of Technology, May 2019. Advisor(s): Dr. Larry Kahn.
1. Natalia Cardelino "Design of Self-consolidating Precast Concrete Using Powdered Limestone," Georgia Institute of Technology, July 2018. Advisor(s): Dr. Kimberly Kurtis and Dr. T. Russell Gentry.

Institutional and Professional Service

Institutional Service

2011 – present

ACI Committee 123 – Research and Current Developments

ACI Committee 549 – Thin Reinforced Cementitious Products & Ferrocement. Voting Member.

Journal Peer-Reviewer

2017 – present Structures, Elsevier

2017 – present *Journal of Testing and Evaluation*, Elsevier

2017 – present *Materials in Civil Engineering*, ASCE

2014 – present *Construction and Building Materials*, Elsevier

2011 – present *Journal of Composites for Construction*, ASCE

Journal of Materials in Civil Engineering, ASCE

Professional Experience

02/2011 – present

Forum Pro srl – 59, *viale Don Giovanni Minzoni, Firenze, Italy*

Professional Educational Development.

Consulting

11/2007 – 12/2009

AU project srl - 28, *via Amato, Nocera Inferiore (SA), Italy*

Architectural Design, structural design, yard management.

Technical Advice

01/2007 – 01/2008

Matera's Studio, 39, *Via Trento, Salerno (Italy)*

Architectural Design, structural design, yard management.

Consulting

10/2006 – 10/2007

Perna Ecologia s.r.l., 25, *via Selve, Marigliano (NA) Italy*

Environmental Engineering: Advice and feasible research.

Consulting

Professional Memberships

2020 – present

Precast/Prestress Concrete Institute (PCI)

2014 – present

American Society for Engineering Education (ASEE)

2012 – present

American Concrete Institute (ACI)

Honors and Awards:

International or National Awards

05/2015

Outstanding TMS Journal Paper Award, "FRCM-Strengthened CMU Masonry Walls Subjected to Out-of-Plane Load," *The Masonry Society Journal*.

07/2006

Cum laude Master's Degree in Architectural and Construction Engineering, Università degli Studi di Napoli "Federico II", Faculty of Engineering, Italy.

2001 – 2006

A.Di.SU. Scholarship, University of Napoli "Federico II", Italy.

Institute or School Awards

2020-21

Provost's Faculty Leadership Fellow, *Kennesaw State University*.

2019-20 and 2020-21

First-Year Scholar Program, CETL, *Kennesaw State University*.

09/2016

Quick Starters Faculty Award, Faculty Learning Community, *Kennesaw State University*.