

# MOSTAFA BATOULI

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## EDUCATION

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### **PhD in Civil and Environmental Engineering**

**May 2017**

Graduate Assistant, School of Construction

Florida International University, Miami, Florida, US

**Dissertation Title:** Exploratory Assessment of Roadway Infrastructure Adaptation to the Impacts of Sea-Level Rise

### **Master of Public Administration**

**July 2015**

Green School of International and Public Affairs, Florida International University, Miami, Florida, US

### **Graduate Certificate in Homeland Security and Emergency Management**

**December 2014**

Green School of International and Public Affairs, Florida International University, Miami, Florida, US,

### **M.Sc. in Civil Engineering-Construction Engineering and Management**

**September 2009**

IAU, Science and Research Branch, Tehran, Iran

**Thesis title:** Proposing a Multi-Parameter Model for Contractor Selection and Assessment of the Model Applicability

### **B.Sc. in Civil Engineering - Surveying**

**April 2006**

University of Tehran, Tehran, Iran

### **High School Diploma**

**May 2000**

National Organization for Development of Exceptional Talents (NODET)

Allame Helli High School, Tehran, Iran

## RESEARCH INTERESTS

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Smart City Resilience, Sustainable and Resilient Infrastructure, Infrastructure Adaptation to Climate Change, Engineering Education, Sustainable Construction, Construction Automation, Project Control and Project Management, Life Cycle Assessment, Life Cycle Cost Analysis, Complex System-of-Systems Modeling, Decision-Making under Deep Uncertainty, Disaster and Emergency Management.

***Mostafa Batouli**, Assistant professor of Civil and Construction Engineering, The Citadel*

1. **Batouli, M.**, Joshi, D., Smart and Equitable Resilience: A Social Sensing Approach for Infrastructure Adaptation to Sea Level Rise (2021), In Preparation.
2. Saadatzaheh, E., Ali Abbaspour, R., Chehreghanb, A., **Batouli, M.** (2021). Infrastructure-free Indoor Navigation based on Smartphone Sensors in Smart Buildings, Under Review, Sensors
3. **Batouli, M.**, Mostafavi, A., Chowdhury, A. (2020). DyNet-LCCA: A Simulation Framework for Dynamic Network-Level Life Cycle Cost Analysis in Evolving Infrastructure Systems. Sustainable and Resilient Infrastructure, <https://doi.org/10.1080/23789689.2019.1710071>
4. Orgut, R. E., **Batouli, M.**, Zhu, J., Mostafavi, A., & Jaselskis, E. J. (2019). Critical Factors for Improving Reliability of Project Control Metrics throughout Project Life Cycle. Journal of Management in Engineering, 36(1), 04019033.
5. **Batouli, M.**, & Mostafavi, A. (2018). Multiagent simulation for complex adaptive modeling of road infrastructure resilience to sea-level rise. Computer-Aided Civil and Infrastructure Engineering, 33(5), 393-410.
6. Orgut, R. E., Zhu, J., **Batouli, M.**, Mostafavi, A., & Jaselskis, E. J. (2018). Metrics That Matter: Core Predictive and Diagnostic Metrics for Improved Project Controls and Analytics. Journal of Construction Engineering and Management, 144(11), 04018100. (Selected as the Editor's Choice).
7. Inyim, P., **Batouli, M.**, Reyes, M., Carmenate, T., Bobadilla, L., Mostafavi, A. (2018) "A Smartphone Application for Personalized and Multi-Method Interventions toward Energy Saving in Buildings", Sustainability, 10(6), 1744.
8. **Batouli, M.**, Bienvenu, M., & Mostafavi, A. (2017). Putting sustainability theory into roadway design practice: Implementation of LCA and LCCA analysis for pavement type selection in real world decision making. Transportation Research Part D: Transport and Environment, 52, 289-302.
9. **Batouli, M.**, & Mostafavi, A. (2017). Service and performance adjusted life cycle assessment: a methodology for dynamic assessment of environmental impacts in infrastructure systems. Sustainable and Resilient Infrastructure, 1-19.
10. **Batouli, S. M.**, Zhu, Y., Nar, M., & D'Souza, N. A. (2014). Environmental Performance of Kenaf-fiber Reinforced Polyurethane: a Life Cycle Assessment Approach. Journal of Cleaner Production, 66, 164-173.
11. Rasoulkhani, K., Mostafavi, A., Reyes, M., **Batouli, M.** (2020), Resilience Planning in Hazards-Humans-Infrastructure Nexus: Simulation-based Exploratory Assessment of Coastal Water Supply Infrastructure Adaptation to Sea-level Rise. Environmental Modelling and Software, 125.104636

## PEER REVIEWED CONFERENCE PAPERS

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1. Rasoulkhani, K., Mostafavi, A., Reyes, **M.**, **Batouli**, M. (2020), Simulation-based Assessment of Adaptive Planning in Coastal Water Supply Infrastructure Systems. Accepted, Proceedings of Construction Research Congress 2020.
2. **Batouli**, M., Burke, R., Plumblee, J., Davis, J. (2019) Deconstructing Student Motivations for Selecting a College Major: Strategies to Improve Recruitment in Construction Engineering. In: 55<sup>th</sup> International Conference of Associated Schools of Construction.
3. **Batouli**, M., Burke, R., Plumblee, J., Davis, J. (2019) Impact of Misperception on Selecting an Engineering College Major: An Empirical Analysis. In: Proceedings of 2019 ASEE Southeastern Section Conference.
4. **Batouli**, M., Burke, R., Wood, T. (2019) Gamification of Student Advising: Helping Students Decide Between Civil and Construction Engineering. In: Proceedings of 2019 ASEE Southeastern Section Conference.
5. Wood, T., **Batouli**, M., Book, E., Michalaka, D., Brown, K. (2019) Perspectives on an Innovative Homework Policy. 2019 ASEE Southeastern Section Conference. In: Proceedings of 2019 ASEE Southeastern Section Conference.
6. **Batouli**, M., & Mostafavi, A. (2016). Assessment of Sea-Level Rise Adaptation in Coastal Infrastructure Systems: Robust Decision-Making under Uncertainty, Proceedings of Construction Research Congress 2016
7. **Batouli**, M., & Mostafavi, A. (2016). A Simulation Framework for Sustainability Assessment in Evolving Socio-Technical Infrastructure Systems, ICSDEC16 – International Conference on Sustainable Design, Engineering and Construction
8. Orgut, R., **Batouli**, M., Zhu, J. , Mostafavi, A., Jaselskis, J. (2016). Metrics that Matter: Evaluation of Metrics and Indicators for Project Progress Measurement, Performance Assessment, and Performance Forecasting during Construction, Proceedings of Construction Research Congress 2016
9. Carmenate, T., Inyim, P., Pachekara, N., Chauhana, G., Bobadilla, L., Mostafavi, A., **Batouli**, M. (2016). Modeling Occupant-Building-Appliance Interaction for Energy Waste Analysis, ICSDEC16 – International Conference on Sustainable Design, Engineering and Construction
10. **Batouli**, M., & Mostafavi, A. (2015). Assessment of network-level environmental sustainability in infrastructure systems using service and performance adjusted life cycle analysis, ICSC15 – The Canadian Society for Civil Engineering's 5th International/11th Construction Specialty Conference
11. Orgut, R. E., Zhu, J., **Batouli**, M., Mostafavi, A., & Jaselskis, E. J. (2015). A review of the current knowledge and practice related to project progress and performance assessment, The Canadian Society for Civil Engineering's 5th International/11th Construction Specialty Conference

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12. **Batouli, M.,** Mostafavi, A. (2014). A hybrid simulation framework for integrated infrastructure management, Winter Simulation Conference 2014.
13. **Batouli, M.,** Swei, O. A., Zhu, J., Gregory, J., Kirchain, R., & Mostafavi, A. (2015, June). A Simulation Framework for Network Level Cost Analysis in Infrastructure Systems. In International Workshop on Computing in Civil Engineering.
14. **Batouli, S. M., & Zhu, Y.**(2014). A Framework for Assessing Environmental Implications of an Urban Area, Construction Research Congress 2014
15. **Batouli, S. M., & Zhu, Y.**(2014). Using Accrual Accounting Life Cycle Assessment as an Indicator of Urban Sustainability, International Conference on Computing in Civil and Building Engineering 2014
16. **Batouli, S. M.,** Zhu, Y.(2013). Comparative Life-Cycle Assessment Study of Kenaf Fiber-Based and Glass Fiber-Based Structural Insulation Panels. In ICCREM 2013@Construction and Operation in the Context of Sustainability (pp. 377-388). ASCE.
17. **Batouli, M.,** Vesali, N., Ghoddousi, P. (2010)“Contractor Selection Criteria: Investigation of Opinions of Iran Construction Practitioners”, 6<sup>th</sup> International project Management Conference, Tehran, Iran
18. Vesali, N., **Batouli, M.,** Hosseinalipour, M. (2010)“Factors Influencing Bid/No-Bid Decision of Iranian Construction Contractors”, 6<sup>th</sup> International project Management Conference, Tehran, Iran
19. **Batouli, M.,** Vesali, N., Hosseinalipour, M. (2008) “Multi-parameter contracting and prequalification: A comparative study”, 2<sup>nd</sup> National Conference on Projects Procurement System, Tehran, Iran
20. Vesali, N., **Batouli, M.,** Hosseinalipour, M. (2008) “Factors affecting mark-up decisions among large contractors in Iran”, 2<sup>nd</sup> National Conference on Projects Procurement System, Tehran, Iran

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## RESEARCH REPORTS

1. **Batouli, M.,** Michalaka, D., Nale, D., Ryan, J. (2020). SC ASCE Report Card Sections Ports, Aviation, Roads, Transit, and Bridges, Under Review by ASCE Infrastructure Initiatives
2. **Batouli, M.,** Bienvenu, M. & Mostafavi, A. (2016). Development of Life-Cycle Assessment (LCA) and Life-Cycle Cost Analysis (LCCA) for Pavement-Type Selection for SR-836 Extension, Research Study for the Miami-Dade Expressway Authority (MDX)
3. Orgut, R; **Batouli, M.;** Zhu, J; Jaselskis, E; Mostafavi, A (2016) “Metrics That Matter: Improving Project Progress and Performance Assessment, Research Study for the Construction Industry Institute, Austin, TX.
4. Orgut, R; **Batouli, M.;** Zhu, J; Jaselskis, E; Mostafavi, A (2016) “Project Control Improvement (PCI) Software and User Guide, Research Study for the Construction Industry Institute, Austin, TX.

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## GRANTSMANSHIP

1. “Climate Risks, Infrastructure, and Income Disparity: Impacts of Sea-Level Rise on Social Inequality in South Carolina’s Coastal Communities”, June 2019

**Mostafa Batouli,** *Assistant professor of Civil and Construction Engineering, The Citadel*

Funding Source: SC Sea Grant Consortium

**PI: Mostafa Batouli**, Co-PI: Ismail Farajpour

Amount of Funding: \$70,590

Status: Accepted

2. “Infrastructure Reliability, Public Perception, and Social Networks: A social sensing approach to study evacuation decisions during natural disasters,” October 2019

Funding Source: The Citadel Center for Climate Studies

PI: Deepti Joshi, **Co-PI: Mostafa Batouli**

Amount of Funding: \$12,000

Status: Accepted

3. “Developing ASCE Report Card for South Carolina”, March 2019

Funding Source: ASCE SC Board

Role: Chair of the Report Card Committee

Amount of Funding: \$8,000

Status: The report card to be published in 2020

4. “Faculty Development Grant to Attend ASCE ExCEED Workshop”, April 2019

Funding Source: Shared between ASCE and College of Engineering and Computing at The Citadel

Amount of Funding: \$3,717.60

Status: I attended the workshop in Florida in August 2019

5. “Faculty Research Grant”, June 2019

Funding Source: College of Engineering and Computing at The Citadel

Amount of Funding: \$4,250

Status: Completed

6. “Faculty Research Grant”, April 2019

Funding Source: College of Engineering and Computing at The Citadel

Amount of Funding: \$3,000

Status: Completed

7. “Faculty Development Grant”, April 2019

Funding Source: College of Engineering and Computing at The Citadel

Amount of Funding: \$2,500

Status: Completed

8. “Faculty Presentation Grant”, April 2019

Funding Source: College of Engineering and Computing at The Citadel

Amount of Funding: \$1,306

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- Status: Used to attend the 2019 Engineering Sustainability Conference in Pittsburgh, PA
9. “Faculty Presentation Grant”, April 2019  
Funding Source: College of Engineering and Computing at The Citadel  
Amount of Funding: \$1,283  
Status: Used to attend the 2019 ASC Conference in Denver, Colorado
10. “Dissertation Year Fellowship”, July 2018  
Funding Source: Graduate School, Florida International University  
Amount of Funding: \$16,000+Tuition Waiver+ Health Insurance  
Status: Completed
11. “PhD Colloquium Scholarship”, December 2014  
Funding Source: Winter Simulation Conference  
Amount of Funding: \$1000+ Registration Waiver  
Status: Used to attend 2014 Winter Simulation Conference

#### **AWARDS & HONORS**

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- Third Place Best PhD Poster Award, Construction Research Congress, 2016
- Dissertation Year Fellowship, Florida International University, 2016
- Student Government Association Graduate Scholarship Award, 2015
- Graduate Student Appreciation Week (GSAW) Scholarly Forum Third Poster Award, 2015
- University Wide Scholarship Award, Florida International University, 2014
- PhD Colloquium Scholarship, Winter Simulation Conference, 2014
- FIU Finalist for Odebrecht Award for Sustainable Development, 2013
- Ranked 2<sup>nd</sup> among 40 students in the Department of Engineering and awarded a scholarship, Islamic Azad University, Science and Research Branch, 2007
- Ranked 2<sup>nd</sup> among 40 students in the Department of Engineering and awarded a scholarship, Islamic Azad University, Science and Research Branch, 2008
- Ranked 6<sup>th</sup> among more than 12,000 applicants in National Azad University Matriculation for graduate students, Fall 2006
- Ranked 1270<sup>th</sup> among more than 500,000 students in the Nationwide Universities Matriculation, Summer 2000
- Ranked 3<sup>rd</sup> in Chess competition among Iranian students, 1994
- Ranked 1<sup>st</sup> in Scientific competition of students in province of Tehran, 1994

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## TEACHING EXPERIENCE

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### **At The Citadel**

#### **Instructor**

Project Management Career Skills	Spring 2020
Project Scheduling	Fall 2019, Fall 2020
Project Management and Engineering Administration	Fall 2019
Project Management Career Skills	Spring 2020, Fall 2020, Spring 2021
Statics and Mechanics of Materials	Summer 2019, Summer 2020, Summer 2021
Advanced Estimating	Spring 2019, Spring 2020, Spring 2021
Asphalt & Concrete Laboratory	Spring 2019, Spring 2020, Spring 2021
Commercial Construction Equipment	Spring 2019, Spring 2020, Spring 2021
Resource Estimating	Fall 2018, Fall 2019, Fall 2020
Quality Management and Labor Relations	Fall 2018, Fall 2019, Fall 2020
Statics	Fall 2018

### **At FIU**

#### **Instructor**

Construction Documentation and Communication	Spring 2018, Summer 2018
Construction Sitework and Equipment	Fall 2017, Spring 2018
Construction Materials and Methods	Fall 2017
Management of Construction Projects	Summer 2017

#### **Co-Instructor:**

Construction Information Systems	Summer 2017
Sustainable Construction	Spring 2014, Spring 2015
Topics in International Construction	Spring 2018

#### **Online Course Moderator:**

Construction Information Systems	Summer 2014, Summer 2015, Summer 2016
Topics in International Construction	Spring 2015, Spring 2016
Management of Construction Organization	Fall 2014, Fall 2015, Fall 2016

#### **Teaching Assistant:**

Sustainable Construction	Spring 2012, Spring 2013
Construction Scheduling	Fall 2013

#### **Guest Lecturer:**

Sea Level Solutions Interdisciplinary Studio	Spring 2016- Spring 2017
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## PROFESSIONAL EXPERIENCE

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[Fall 2018- Present] **Assistant Professor of Civil and Construction Engineering**

Department of Civil & Environmental Engineering; The Citadel

[Fall 2017-Summer 2018] **Visiting Professor of Construction Management**

Moss School of Construction, Infrastructure, & Sustainability; Florida International University

[Summer 2017] **Adjunct Professor**

Moss School of Construction, Infrastructure, & Sustainability; Florida International University

[2012-2017] **Research and Teaching Assistant**

Moss School of Construction, Infrastructure, & Sustainability; Florida International University

[2009- 2011] **Quality Control Director**

Iranian Concrete Manufacture; Tehran, Iran

[2007- 2009] **Quality Control Coordinator**

Iranian Concrete Manufacture; Tehran, Iran

[2006-2008] **Assistant Project Manager** (part time)

Parsan Engineering Company; Tehran, Iran

[2004-2006] **Surveying Engineer, Assistant Project Manager** (part time)

Parsan Engineering Company; Tehran, Iran

## PROFESSIONAL MEMBERSHIP AND CERTIFICATES

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Project Management Professional (PMP), Since February 2020

ASCE ExCEED Fellow, Since August 2019

Member of Project Management Institute (PMI) Since 2019

Associate Member of American Society of Civil Engineering (A.M.ASCE), Since 2019

## COMPUTER SKILLS

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**Programming Language:** Java, Visual C++, Visual Basic, and MATLAB

**Technical Software:** Anylogic, Arc GIS, Revit, SPSS, AutoCAD, MS Project, Primavera Project Planner, SimaPro LCA Software, Athena Impact Estimator for Buildings, Athena Pavement LCA

**Tools:** Microsoft Office, @Risk, Adobe Photoshop, etc.

## REFERENCES

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[Dr. A. Mostafavi](#), Assistant Professor, Zachry Department of Civil Engineering, Texas A&M University, Email: [amostafavi@civil.tamu.edu](mailto:amostafavi@civil.tamu.edu) ; Ph: 979-845-4856

[Dr. Jin Zhu](#), Assistant Professor, Department of Civil and Environmental Engineering; University of Connecticut; Email: [jzhu@uconn.edu](mailto:jzhu@uconn.edu) ; Ph: 860-486-0489

***Mostafa Batouli**, Assistant professor of Civil and Construction Engineering, The Citadel*



[Dr. Deepti Joshi](#), Associate Professor of Computer Science, Department of Cyber and Computer Science, The Citadel, ; Email: [djoshi@citadel.edu](mailto:djoshi@citadel.edu) ; Ph: 843-953-7895

[Dr. E. Jaselskis](#), Clancy Distinguished Professor, Department of Civil, Construction, and Environmental Engineering, North Carolina State University, Email: [ejjasels@ncsu.edu](mailto:ejjasels@ncsu.edu) ; Ph: 919-515-1158

[Dr. N. Ganapati](#), Associate Professor, Department of Public Administration, Florida International University, Email: [ganapat@fiu.edu](mailto:ganapat@fiu.edu) ; Ph: 305-348-0436

[Dr. Y. Zhu](#), Pulte Homes Endowed Professor in Construction Management, Turner Department of Construction Management, Louisiana State University, Email: [yiminzhu@lsu.edu](mailto:yiminzhu@lsu.edu) ; Ph: 225-578-5373

All documents are available upon request.

***Mostafa Batouli***, Assistant professor of Civil and Construction Engineering, The Citadel