

MOSTAFA BATOULI, PhD, PE, MPA, PMP

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EDUCATION

PhD in Civil Engineering

April 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

Artificial Intelligence and Automation in Project Management, Sustainability and Resilience of Civil Infrastructure Systems, Engineering Education, Construction Education and Pedagogical Innovation, Construction Automation, Project Control and Project Management, Entrepreneurial Mindset in Engineering Education, Organizational Improvement and Workforce Development in the AEC Industry, Complex System-of-Systems Modeling, Decision-Making under Deep Uncertainty, Disaster and Emergency Management.

Mostafa Batouli, Associate professor of Civil and Construction Engineering, The Citadel (www.strives-lab.com)

1. **Batouli, M.,** & Joshi, D. (2025). Pathways to socially sustainable adaptation: Real-time and context-specific vulnerability assessment in South Carolina after Hurricane Dorian. *Journal of Construction Engineering and Management*, 151(2), 04024197.
2. Shamsi,N., **Batouli, M.** (2025). Breaking Vicious Cycles of Climate Change Adaptation: Using Smart Soft Solutions for Sustainable and Equitable Adaptation, In Preparation, Target Journal: Natural Hazards Review, Target Submission: December 2025
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. 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
5. 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.
6. **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.
7. 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*).
8. 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.
9. **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.
10. **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.

11. **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.

SELECT PEER REVIEWED CONFERENCE PAPERS

1. **Batouli, M.,** Ghanat, S., & Vesali, N. (March 2025), Mapping the Path to KEEN Fellowships: Trends, Insights, and Impacts from 2020-2024, In: *Proceedings of 2025 ASEE Southeastern Section Conference*.
2. **Batouli, M.,** & Vesali, N. (March 2025), The Case for a Separate FE Exam for Construction Engineering: Addressing Curriculum Discrepancies and Student Performance, In: *Proceedings of 2025 ASEE Southeastern Section Conference*.
3. Ghanat, S., & **Batouli, M.,** (March 2025), An Investigation into the Effectiveness of Web-based Pre-Class Reading Responses, In: *Proceedings of 2025 ASEE Southeastern Section Conference*.
4. Vesali, N. & **Batouli, M.,** (March 2024), Artificial Intelligence and Machine Learning Applications in Engineering Project Management: Developing A Course Module, In: *Proceedings of 2024 ASEE Southeastern Section Conference*.
5. **Batouli, M.,** (March 2024), Enhancing Construction Engineering Education: Identifying Key Competencies and Learning Outcomes, In: *Proceedings of 2024 ASEE Southeastern Section Conference*.
6. **Batouli, M.,** Burke, R., Welch, R. W., & Vesali, N. (2023, June). From Need Assessment to Accreditation: Lessons Learned from Creating a New Construction Engineering Program. In *2023 ASEE Annual Conference & Exposition*.
7. Ghanat, S. T., Loughton, S., Shetty, N. H., Garner, D., Hefner, M. K., **Batouli, M.,** ... & Wittman, T. (2023, June). Investigating Undergraduate Researchers' Perceptions of Mentoring Relationships. In *2023 ASEE Annual Conference & Exposition*.
8. **Batouli, M.,** Joshi, D. (2022, March) Natural Disasters, Inequality, and Civil Infrastructure Systems: Developing Equitable Pathways toward Resilience. In *Construction Research Congress 2022* (pp. 188-197).
9. **Batouli, M.,** Shamsi, N. , Vesali, N. , Burke, R., (2022, June) A Data-Driven Comparison of ABET Accredited Construction Engineering and Construction Management Programs, in *2022 ASEE Annual Conference and Exposition in Minneapolis, MN*
10. Burke, R., & **Batouli, M.,** & Wood, T. A. (2021, July), Gamification of Construction Engineering Inaugural Experience Paper presented at 2021 ASEE Virtual Annual Conference Content Access, Virtual Conference. <https://strategy.asee.org/37218>

Mostafa Batouli, *Associate professor of Civil and Construction Engineering, The Citadel* (www.strives-lab.com)

11. Rasoulkhani, K., Mostafavi, A., Reyes, **M., Batouli, M.** (2020), Simulation-based Assessment of Adaptive Planning in Coastal Water Supply Infrastructure Systems. Proceedings of Construction Research Congress 2020.
12. **Batouli, M.**, Wood, T., Michalaka, D., Brown, K., Welch, R. (2020) Adopting ASCE ExCEED Model for Engineering Education: Lessons Learned and Implementation Strategies, in 2020 ASEE Southeastern Section Conference
13. **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: 55th International Conference of Associated Schools of Construction.
14. **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.
15. **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.
16. 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.
17. **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
18. **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
19. 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
20. 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
21. **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

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22. 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
23. **Batouli, M.**, Mostafavi, A. (2014). A hybrid simulation framework for integrated infrastructure management, Winter Simulation Conference 2014.
24. **Batouli, M.**, Sweil, 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.
25. **Batouli, S. M.**, & Zhu, Y. (2014). A Framework for Assessing Environmental Implications of an Urban Area, Construction Research Congress 2014
26. **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
27. **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.
28. **Batouli, M.**, Vesali, N., Ghoddousi, P. (2010) "Contractor Selection Criteria: Investigation of Opinions of Iran Construction Practitioners", 6th International project Management Conference, Tehran, Iran
29. Vesali, N., **Batouli, M.**, Hosseinalipour, M. (2010) "Factors Influencing Bid/No-Bid Decision of Iranian Construction Contractors", 6th International project Management Conference, Tehran, Iran
30. **Batouli, M.**, Vesali, N., Hosseinalipour, M. (2008) "Multi-parameter contracting and prequalification: A comparative study", 2nd National Conference on Projects Procurement System, Tehran, Iran
31. Vesali, N., **Batouli, M.**, Hosseinalipour, M. (2008) "Factors affecting mark-up decisions among large contractors in Iran", 2nd National Conference on Projects Procurement System, Tehran, Iran

RESEARCH REPORTS

1. Ard, J., Thrasher, J. , **Batouli, M.**, (2021). SC ASCE Report Card, ASCE Infrastructure Initiatives, https://infrastructurereportcard.org/wp-content/uploads/2016/10/SC_IRC_2021-Report-9-7-2021_Reduced-Size.pdf
2. **Batouli, M.**, Bienvu, 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)

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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.

GRANTS AND FUNDED RESEARCH

1. “Uniting Civil and Construction Engineering Programs to Train Flexible Experts”, September 2025
Funding Source: National Science Foundation (NSF), Planning: IUSE/PFE: RED
Role: Senior Personnel
Amount: \$149,990
Status: Ongoing
2. “Social Science Investigation of the Partial Collapse of Champlain Towers South, Surfside, Florida”, November 2024
Funding Source: National Institute of Standards and Technology (NIST) Contract Number PUR-08546
Role: Contractor (via IMPACT Advising LLC)
Amount: \$31,200
Status: Ongoing
3. “Developing ASCE Report Card for South Carolina”, August 2025
Funding Source: ASCE SC Board
Role: Chair of the Report Card Committee
Amount of Funding: \$18,000
Status: The report card to be published in 2026
4. KEEN Community Catalyst, October 2025
Funding Source: Kern Family Foundation
Amount of Funding: \$5,000 for one year
5. National Engineering Unleashed KEEN Fellowship, October 2024
KEEN Fellow: **Mostafa Batouli**
Funding Source: Kern Family Foundation
Amount of Funding: \$10,000 for one year
6. “KEEN Annual Support Package”, November 2022
KEEN Leaders: Mostafa Batouli, Nahid Vesali, Deidre Ragan, Simon Ghanat

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- Funding Source: Kern Family Foundation
Amount of Funding: \$25,000 Per Year for five years
Status: Year 1 funding approved
7. “Coupled Effects of Sea-Level Rise and Electric Vehicles on Coastal Roads”, November 2023
Funding Source: James Near Center for Climate Studies
Amount of Funding: \$11,000
PI: Mostafa Batouli, Co-PI: Nahid Vesali
Status: Project Started
8. “Developing an Interdisciplinary Course in Construction Automation and Robotics”, April 2022
PI: Mostafa Batouli, Co-PI: Nahid Vesali, and Pooya Niksiar
Funding Source: The Citadel School of Engineering Vision Grant
Amount of Funding: \$12,000
Status: Accepted
9. “An Alternative Paradigm for Construction Quality Management”, May 2022
PI: Sybil Grier Hensley (Undergraduate Student)
Faculty Adviser: Mostafa Batouli
Funding Source: The Citadel Undergraduate Research Office
Amount of Funding: \$7,000
Status: Accepted
10. “Climate Risks, Infrastructure, and Income Disparity: Impacts of Sea-Level Rise on Social Inequality in South Carolina’s Coastal Communities”, June 2019
Funding Source: SC Sea Grant Consortium
PI: Mostafa Batouli, Co-PI: Ismail Farajpour
Amount of Funding: \$70,590
Status: Accepted
11. “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
12. “Developing ASCE Report Card for South Carolina”, March 2019
Funding Source: ASCE SC Board

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- Role: Chair of the Report Card Committee
Amount of Funding: \$8,000
Status: The report card published in 2021
13. “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
14. “Faculty Research Grant”, June 2019
Funding Source: College of Engineering and Computing at The Citadel
Amount of Funding: \$4,250
Status: Completed
15. “Faculty Research Grant”, April 2019
Funding Source: College of Engineering and Computing at The Citadel
Amount of Funding: \$3,000
Status: Completed
16. “Faculty Development Grant”, April 2019
Funding Source: College of Engineering and Computing at The Citadel
Amount of Funding: \$2,500
Status: Completed
17. “Faculty Presentation Grant”, April 2019
Funding Source: College of Engineering and Computing at The Citadel
Amount of Funding: \$1,306
Status: Used to attend the 2019 Engineering Sustainability Conference in Pittsburgh, PA
18. “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
19. “Dissertation Year Fellowship”, July 2018
Funding Source: Graduate School, Florida International University
Amount of Funding: \$16,000+Tuition Waiver+ Health Insurance
Status: Completed
20. “PhD Colloquium Scholarship”, December 2014
Funding Source: Winter Simulation Conference

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Amount of Funding: \$1000+ Registration Waiver

AWARDS & HONORS

- **LeTellier Cup Award**, American Society of Civil Engineers (ASCE), South Carolina Section, 2025
Recognized with the LeTellier Cup, the highest annual honor of the ASCE South Carolina Section, for exceptional contributions to the civil engineering profession, service to the community, and advancement of engineering education in the state.
- Provost Faculty Research Award, received for the research titled “Predicting Coastal Roadway Condition Based on Adoption of Electric Vehicles and Climate-induced Sea Level Rise”, 2022
- Harry Saxe Teaching Award, received from The Citadel Department of Civil, Environmental, and Construction Engineering as the best teacher of 2022 based on student evaluations of instruction and student votes, 2022
- Certificate of Achievement for Contributions to ABET Accreditation of BSc in Construction Engineering, The Citadel School of Engineering Dean, 2021
- Founding Faculty Award, Construction Engineering Industry Advisory Board, The Citadel, 2020
- Third Place Best PhD Poster Award, Construction Research Congress, 2016
- Dissertation Year Fellowship, 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 2nd among 40 students in the Department of Engineering and awarded a scholarship, Islamic Azad University, Science and Research Branch, 2007
- Ranked 2nd among 40 students in the Department of Engineering and awarded a scholarship, Islamic Azad University, Science and Research Branch, 2008
- Ranked 6th among more than 12,000 applicants in National Azad University Matriculation for graduate students, Fall 2006
- Ranked 1270th among more than 500,000 students in the Nationwide Universities Matriculation, Summer 2000
- Ranked 3rd in Chess competition among Iranian students, 1994
- Ranked 1st in Scientific competition of students in province of Tehran, 1994

Mostafa Batouli, Associate professor of Civil and Construction Engineering, The Citadel (www.strives-lab.com)

TEACHING EXPERIENCE

At The Citadel

Assistant Professor

Project Scheduling
Project Management and Engineering Administration
Project Management Career Skills
Statics and Mechanics of Materials
Practicum in Construction Engineering
Engineering Management
Advanced Estimating
Asphalt & Concrete Laboratory
Commercial Construction Equipment
Resource Estimating
Quality Management and Labor Relations
Statics

At FIU

Visiting Instructor

Construction Documentation and Communication
Construction Sitework and Equipment
Construction Materials and Methods
Management of Construction Projects
Construction Information Systems
Sustainable Construction
Topics in International Construction
Construction Information Systems
Topics in International Construction
Management of Construction Organization
Sustainable Construction
Construction Scheduling

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PROFESSIONAL EXPERIENCE

[Summer 2024-Present] **Associate Professor of Civil and Construction Engineering**

Department of Civil, Environmental, and Construction Engineering; The Citadel

[Fall 2018- Summer 2024] **Assistant Professor of Civil and Construction Engineering**

Department of Civil, Environmental, and Construction 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 LICENSES AND CERTIFICATES

SC Professional Engineering (PE Construction), Since January 2023

Project Management Professional (PMP), Certified February 2020

ASCE ExCEED Fellow, Since August 2019

KEEN Fellow, Since October 2024

SERVICE AND PROFESSIONAL MEMBERSHIPS

- Secretary, ASEE Construction Division, Since June 2025
- Treasurer, ASEE Construction Division, June 2023-June 2025
- The Citadel's Kern Entrepreneurial Engineering Network (KEEN) Leader, Since June 2022
- The Citadel Enrollment Committee, Committee Member Since January 2023
- SC ASCE 2026 Report Card Committee Member and Chair of The Ports Chapter

Mostafa Batouli, Associate professor of Civil and Construction Engineering, The Citadel (www.strives-lab.com)

- SC ASCE 2021 Report Card Committee Member and Chair of The Ports Chapter
- Research Adviser to 2 Graduate Students and 5 Undergraduate Students, The Citadel
- Faculty Adviser of The Citadel ASCE Concrete Canoe Team, Since 2020
- Member of Project Management Institute (PMI) Since 2019
- Associate Member of American Society of Civil Engineering (A.M.ASCE), Since 2019
- Professional Member of American Society of Engineering Education (ASEE), Since 2018

REFERENCES

[Dr. A. Mostafavi](#), Endowed Professor, Zachry Department of Civil Engineering, Texas A&M University, Email: 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 ; Ph: 860-486-0489

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

[Dr. Ismail Farajpour](#), Associate Professor of Civil Engineering, Department of Engineering, South Carolina State University, Email: ifarajpo@scsu.edu ; Ph: (803) 536- 7081

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

All documents are available upon request.

Mostafa Batouli, Associate professor of Civil and Construction Engineering, The Citadel (www.strives-lab.com)