

**LISSETTE FERNANDEZ**

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Enthusiastic and detail-oriented graduate student with exceptional organizational skills. Passionate about architecture and engineering and more specifically, educating new generations on the importance to enhance community infrastructure and sustainable design.

**EDUCATION**

Higher Polytechnic Institute at Havana, Cuba (GPA 4.86/5)	Architecture	B.S., Sep 2004 – Jul 2009 <i>with Honors</i>
Clarkson University, Potsdam, NY (GPA 3.761/4)	Civil Engineering	B.S., Sep 2013 – Dec 2015 <i>with Great Distinction</i>
Clarkson University, Potsdam, NY (GPA 3.846/4)	Civil Engineering	Ph.D., Jan 2016 – May 2021 (anticipated)

**RELEVANT EXPERIENCE**

Fall 2019, Fall 2017	<b>Clarkson University, Civil Engineering Department, Potsdam NY</b> <i>Instructor</i> , ES 220 Statics (91 & 61 students) <ul style="list-style-type: none"><li>Developed course material including syllabus, lecture materials, homework assignments, quizzes and exams.</li><li>Delivered all class lectures (three lectures per week).</li></ul>
Spring 2019	<b>Preemptive Advanced Studies Institute (ASI), University of Costa Rica</b> <i>Invited Participant</i> , Resilience of Aging Infrastructure Workshop <ul style="list-style-type: none"><li>Assessed structural conditions of bridges affected by earthquakes in San Jose and Limon.</li><li>Proposed structural solutions to minimize the impact of natural hazards in the transportation network.</li></ul>
Fall 2018, Fall 2016	<b>Clarkson University, Civil Engineering Department, Potsdam NY</b> <i>Graduate Teaching Assistant</i> , CE 320 Structural Analysis <ul style="list-style-type: none"><li>Conducted and taught laboratory sections (102 &amp; 88 students in 2016 &amp; 2018).</li><li>Graded laboratory reports.</li><li>Performed static and moving influence lines experiments on scaled bridges.</li></ul>
Fall 2015	<b>Clarkson University, Civil Engineering Department, Potsdam NY</b> <i>Undergraduate Teaching Assistant</i> , Structural Analysis & Foundations, Stability & Retaining Structures <ul style="list-style-type: none"><li>Assisted students with homework help sections.</li><li>Graded homework assignments.</li></ul>
Spring 2015	<b>Exxon Mobil &amp; Clarkson University, Newfoundland, Canada</b> <i>Selected to participate on a field trip to the Hebron site</i> <ul style="list-style-type: none"><li>Visited offshore oil field with stand-alone concrete gravity-based structures (GBS).</li></ul>
Nov 2012–Sep 2017	<b>Brooks Washburn Architect PC, Potsdam, NY</b> <i>Architectural Drafter</i> <ul style="list-style-type: none"><li>Built CAD drawings to ensure structural integrity and soundness based on information provided by the architect and customers.</li><li>Visited construction sites to measure field dimensions.</li><li>Developed designs for residential and commercial buildings.</li><li>Improved pedestrian accessibility to facilities in local hospitals, universities and restaurants.</li></ul>

## HONORS AND AWARDS

- Spring 2020      **Outstanding Civil & Environmental Engineering Graduate Student Teaching Award**,  
Clarkson University
- Spring 2020 &  
Spring 2019      **Invited Participant**, Advanced Studies Institute (ASI) on *Resilience of Aging Infrastructure*,  
National Science Foundation
- Spring 2019      **Awardee**, Structural Engineering Institute (SEI) Student Scholarship, American Society of  
Civil Engineers (ASCE)
- Spring 2016      **Fellow**, The George A. Gray Endowed Fellowship, Clarkson University
- Spring 2015      **Scholarship Recipient**, Ralph E. '55 and Solita-Anna Hawes Endowed Scholarship Fund  
Clarkson University

## CONFERENCES AND PUBLICATIONS

- **L. Fernandez** and S. Wojtkiewicz, “Computationally Efficient Frequency Analysis of Vibrational Energy Harvesters under Uncertainty” *Clarkson University Summer Research and Project Showcase (RAPS)* 2018. Awarded best oral presentation in Physics and Engineering Session.
- **L. Fernandez**, S. Wojtkiewicz, E. A. Johnson and J.M Gibert, “Holistic Vibration Energy Harvesting in Structural Systems” *Clarkson University Spring Research and Project Showcase (RAPS)* 2018. Received Poster Award.
- **L. Fernandez**, S. Wojtkiewicz, E. A. Johnson and J.M Gibert, “Exploiting Locality of Attachments of Vibrational Energy Harvesters in Computational Analysis, Design and Optimization under Uncertainty” *Engineering Mechanics Institute (EMI)* 2017. Oral Presentation.

## OTHER SKILLS

- Software expertise: Advanced mastery of MATLAB, AutoCAD, DataCAD, Sketchup, QuickBooks, Microsoft Office, REVIT
- Fluent in both English and Spanish (oral and written).
- Conversational communication skills in Italian.