

# MARIA CORINA PORADA, P.E.

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## EDUCATION

UNIVERSITY OF DELAWARE, Newark, DE <b>Ph.D Student in Civil Engineering</b> , Concentration in Civil Infrastructure Systems	2021 - present
CORNELL UNIVERSITY, Ithaca, NY <b>Master of Science in Civil Engineering</b> , Concentration in Structural Engineering	1999 - 2002
JOHNS HOPKINS UNIVERSITY, Baltimore, MD <b>Bachelor of Science in Civil Engineering</b> , Concentration in Structural Engineering	1995 - 1999

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## RESEARCH EXPERIENCE

UNIVERSITY OF DELAWARE, NEWARK, DE <b>Research Assistant</b> <i>Project: LEAP-HI: An Interdisciplinary Approach to Modeling Multiple Stakeholder Decision Making to Reduce Regional Natural Disaster Risk</i> <i>Advisor: Dr. Rachel Davidson, Ph.D., Department of Civil Engineering</i> <ul style="list-style-type: none"><li>Model household decision-making as it relates to mitigative action prior to a hurricane event by implementing a multi-state Markov model to predict decision stage transitions and factors affecting these transitions</li></ul> <b>Teaching Assistant</b> <i>CIEG 320: Soil Mechanics and Foundation Engineering</i> <i>CIEG 323: Soil Mechanics Lab</i>	2021 - present
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## PROFESSIONAL EXPERIENCE

PICKERING FIRM, Memphis, TN <b>Senior Structural Engineer</b> <i>Analysis, Design, and Inspection</i> <ul style="list-style-type: none"><li>Design new buildings, building expansions, retrofit work on existing buildings, and miscellaneous structures</li><li>Analyze existing structures for new loading/use or for reduced capacity due to damage or deterioration</li><li>Prepare construction documents including drawings and technical specifications for permit and bid</li><li>Inspect existing structures to assess structural condition</li><li>Prepare inspection reports summarizing observations, load rating analysis if applicable, conclusions, and recommendations for continued or future use</li></ul> <i>Construction Administration</i> <ul style="list-style-type: none"><li>Respond to questions by contractor or client to address unforeseen problems encountered in the field</li><li>Review shop drawings and submittals</li></ul> <i>Mentorship/ Student Outreach</i> <ul style="list-style-type: none"><li>Whitehaven Elementary 2018 STEM Expo</li><li>St. George's Career Day at Pickering</li></ul>	2015 – 2020
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JOHNSON, MIRMIRAN, AND THOMPSON, Sparks, MD

2013 – 2014

**Structural Engineer***Analysis, Design, and Inspection*

- Designed new structures and retrofit work on existing buildings
- Performed load rating analysis for existing structures
- Inspected existing structures to assess structural condition
- Prepared inspection reports summarizing observations, conclusions, and recommendations for continued or future use

MOFFATT &amp; NICHOL, Baltimore, MD

2003 – 2009

**Marine Structural Engineer***Analysis and Design*

- Designed new waterfront structures, repairs for the rehabilitation of existing waterfront structures, and miscellaneous land-side structures
- Conducted 12-month monitoring program to determine efficacy of a repair to deteriorating concrete piles. Collected and analyzed data. Prepared report summarizing results and recommended the repair for strengthening other piles exhibiting similar characteristics
- Rated numerous existing waterfront structures for load capacity and prepared reports summarizing analysis, results, and design recommendations
- Prepared construction documents including drawings, technical specifications, and cost estimates for permit and bid

*Inspection*

- Inspected existing waterfront structures topside and at water level to assess structural condition
- Prepared reports summarizing observations and repair recommendations as needed to halt continued deterioration and restore original load capacity of structures

*Construction Oversight*

- Collaborated with contractors to oversee construction of waterfront and land-side projects by conducting regular site visits, responding to contractor questions, and addressing problems encountered in the field.
- Facilitated communication among contractor, client, and design team through regular progress meetings
- Reviewed shop drawings and submittals

*Project Management*

- Directed several government and private construction projects through design, bid, and construction phases
- Assessed and met evolving needs of client, Maryland Port Administration (MPA), resulting in two open-ended repair contracts for miscellaneous port facility repairs. Collaborated closely with client to develop scope of work and cost estimate for each repair type.
- Worked closely with operations personnel to minimize impact on ongoing activities surrounding construction site (i.e. vessel loading/unloading, warehouse operations, etc.)

PARSONS BRINCKERHOFF, Pittsburgh, PA

2001 – 2003

**Engineer in Training**

*Analysis, Design and Inspection*

- Designed/analyzed miscellaneous structural components
- Prepared cost estimates for projects
- Reviewed shop drawings
- Assisted in bridge inspections

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**PROFESSIONAL LICENSES**

PROFESSIONAL ENGINEER, State of Maryland

Expiration: Jan. 2026

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**DESIGN SOFTWARE**

STAAD Pro, Ram Elements, Eneccalc, AutoCAD, Revit

**OTHER SOFTWARE**

ArcGIS

**PROGRAMMING LANGUAGES**

Python, R

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**VOLUNTEER ENGAGEMENTS**

**WSE Mentoring Program**, Johns Hopkins University, 2019 to present

**WSE Alumni Leadership Committee**, Johns Hopkins University, 2018 to present