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EDUCATION

Ph.D. **Virginia Tech**, Civil Engineering, 2016
M.S. **Virginia Tech**, Civil Engineering, 2011
B.S. **Universidad Católica Andrés Bello**, Venezuela, Civil Engineering, 2009

ACADEMIC APPOINTMENTS

Aug. 2016 - Present **Assistant Professor**
Department of Civil, Construction, and Environmental Engineering
North Carolina State University
May 2011 - Aug. 2016 **Graduate Research Assistant**
Department of Civil, and Environmental Engineering, Virginia Tech
March 2013 **Visiting Researcher**
Institut Français des Sciences et Technologies des Transports, de
l'Aménagement et des Réseaux (IFSTTAR), Paris, France.

AWARDS AND HONORS

- 2019 Enabling the Next Generation of Hazards and Disaster Researchers Fellowship
- 2019 Women and Minorities in Engineering Program Award.
- 2018 Outstanding Reviewer, ASCE Journal of Geotech. and Geoenvironmental Engineering.
- Thank a Teacher Letter 2018 (NCSU Office of Faculty Development recognition program)
- Fellow, American Society of Civil Engineers (ASCE) Excellence in Civil Engineering Education (ExCEED), 2017.
- Winner, Annual Graduate Student Paper Competition, Earthquake Engineering Research Institute (EERI), 2014.
- Student Presentation Award, Seismological Society of America (SSA) Annual Meeting, 2014.
- 3rd Place, National Poster Competition, International Foundations Congress and Equipment Expo (IFCEE) / Geo-Congress, ASCE Geo-Institute, 2015.
- Top 6 Finalist, National Poster Competition, Geo-Congress, ASCE Geo-Institute, 2012.
- 2nd Place, Graduate Student Poster Competition, Research Day, Virginia Tech, 2012.
- Juris Vitols Academic Excellence Award, Universidad Católica Andrés Bello, 2009.
- Dean of Engineering Honor List, Department of Civil Engineering, Universidad Católica Andrés Bello, 2003-2008.

TEACHING EXPERIENCE

Assistant Professor, North Carolina State University

- CE 342: Engineering Behavior of Soils and Foundations
- CE 746: Geotechnical Earthquake Engineering
- CE 593: Dynamics of Soils and Foundations

Graduate Teaching Assistant, Virginia Tech

- CEE 3514: Introduction to Geotechnical Engineering, Fall 2010, and Spring 2011.

Undergraduate Teaching Assistant, Universidad Católica Andrés Bello

- Physics II, Spring 2006, Spring 2008, and Fall 2008.

PUBLICATIONS

Journal Articles:

1. **Cabas, A.**, and Rodriguez-Marek, A. (2017). V_S - κ_0 Correction Factors for Input Ground Motions Used in Seismic Site Response Analysis. *Earthquake Spectra* (<https://doi.org/10.1193/122315EQS188M>).
2. **Cabas, A.**, Rodriguez-Marek, A. and Bonilla, L.F. (2017), Estimation of Site-specific Kappa (κ_0)-consistent Damping Values at KiK-net sites to Assess the Discrepancy between Laboratory-based Damping Models and Observed Attenuation (of seismic waves) in the Field, *Bull. Seism. Soc. Am.* **107** (5): 2258-2271 doi: <https://doi.org/10.1785/0120160370>
3. Ji, C., **Cabas, A.**, Cotton, F., Pilz, M., and Bindi, D. (2019), Within station variability in kappa: evidence of directionality effects. *Bull. Seism. Soc. Am.* (under review).
4. Chowdhury, I.N., **Cabas, A.**, Kaklamanos, J., Kottke, A., Assessment of the Contribution of Input Motion Selection Procedures to Uncertainty in Ground Motion Intensity Measures, *Earthquake Spectra*. (under review).
5. **Cabas, A.**, Rodriguez-Marek, A. and Green, R., Assessing the Importance of the Elastic Half-Space Assumption in Site Response Analysis, *J. Geotech. Geoenviron. Eng.* (anticipated submission by January 2020).
6. **Cabas, A.**, Thornley, J., Zimmaro, P., and Thompson, E. Site effects observed after the 2018 Mw 7.1 Anchorage Alaska Earthquake, *Bull. Seism. Soc. Am.* (in preparation).

Refereed Conference Proceedings:

1. Gann, C, Chowdhury, I., **Cabas, A.**, Kaklamanos, J. (2020), Effects of Input Motions from Different Tectonic Settings on Seismic Slope Stability Analyses. Proceedings of the 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan - September 13th to 18th 2020 (abstract accepted).
2. **Cabas, A.**, Franke, K., Koehler, R., Stuedlein, A., Yang, J., Beyzaei, C., Pierce, I. (2020), Turning Disaster into Knowledge: Geotechnical aspects of the 2018 Mw 7.1 Anchorage Alaska Earthquake. Proceedings from ASCE GeoCongress 2020, Minneapolis, MN, February 25-28 2020, ASCE Geotechnical Special Publication
3. Doostmohammadibueini M., **Cabas, A.**, and Montoya, B. (2019), Assessment of Lateral Spreading Estimations through the Lens of Centrifuge Modeling. Proceedings from ASCE GeoCongress 2019, Philadelphia, PA, March 24-27 2019, ASCE Geotechnical Special Publication.

4. Chowdhury, I., **Cabas, A.**, Kaklamanos, J., Kottke, A., Greggor, N. (2019), Hazard-consistent ground motions: Insights on selection and scaling for different tectonic, geological, and geotechnical environments. *Proceedings from the 7th International Conference on Earthquake Geotechnical Engineering*, 17-20 June 2019, Rome, Italy.
5. **Cabas, A.**, (2019). On the Use of Site-specific Probabilistic Seismic Hazard Analysis and the Attenuation Parameter κ in Hazard Assessments of Critical Facilities. *Proceedings from the Structural Mechanics in Reactor Technology (SMiRT) Conference*, August 4-9 2019, Charlotte, NC.
6. Ingabire-Abayo, N., **Cabas, A.**, Chamberlin, E., and Montoya, B. (2019), Assessment of the Variability in Liquefaction-induced Lateral Spreading: Insights from lateral spreading observed in recent seismic events. *Proceedings from the 7th International Symposium on Geotechnical Safety and Risk*, December 11-13 2019.
7. **Cabas, A.**, and Rodriguez-Marek, A. (2018), Toward improving damping characterization for site response analysis, *5th Geotechnical Earthquake Engineering and Soil Dynamics Conference*, Austin, TX, June 10-13 2018.
8. Chowdhury, I.N., and **Cabas, A.** (2018), Assessment of the Influence of the Elastic Halfspace on Site Response Estimations, *11th National Conference on Earthquake Engineering*, Los Angeles, CA, June 25-29 2018.
9. **Cabas, A.**, and Rodriguez-Marek, A. (2017). What Can We Learn from Kappa to Achieve a Better Characterization of Damping in Geotechnical Site Response Models? *Geotechnical Frontiers 2017*, Orlando, Florida, USA, March 12-15, 2017.
10. **Cabas, A.**, Rodriguez-Marek, A., and Montalva, G. (2015). V_S - κ Consistent Input Ground Motions for Site Response Analyses, Case Studies in Concepción and San Pedro, Chile. *XV Pan-American Conference on Soil Mechanics and Geotechnical Engineering*, Buenos Aires, Argentina, November 15-18, 2015.
11. **Cabas, A.** (2015). V_S - κ Correction Factors for Input Ground Motions used in Seismic Site Response Analysis. *Earthquake Engineering Research Institute (EERI) 67th Annual Meeting 2015*, Boston, MA, USA, March 31 - April 3, 2015.
12. **Cabas, A.**, Cárcamo, P., Rodriguez-Marek, A., Godfrey, B., and Olgun, G. (2014). Where to Locate the Elastic Half-Space in Site Response Analysis, A Case Study Using Site Profiles from Charleston, SC, USA. *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, August 25-29, 2014.

Technical Reports:

1. Koehler, R.D., Franke, K.W., Beyzaei, C.Z., **Cabas, A.**, Pierce, I., Stuedlein, A., and Yang, Z., (2018), Geotechnical Engineering Reconnaissance of the 30 November 2018 M7.0 Anchorage, Alaska Earthquake, GEER report Version 1.
2. Koehler, R.D., Franke, K.W., Beyzaei, C.Z., **Cabas, A.**, Pierce, I., Stuedlein, A., and Yang, Z., (2019), Geotechnical Engineering Reconnaissance of the 30 November 2018 M7.0 Anchorage, Alaska Earthquake, GEER report Version 2.
3. **Cabas, A.**, Kaklamanos, J., Kottke, A., and Chowdhury I., (2019). Assessment of the Contribution of Input Motion Selection Procedures to Uncertainty in Ground Motion Intensity Measures. USGS Final Report AWARD NUMBER: G18AP00015.

4. Rodriguez-Marek, A., Dawood, H.M., Upadhyaya, S., and **Cabas, A.**, (2017). An empirical study of the parameterization of site response using the KiKnet array. USGS Report AWARD NUMBER: G14AP00017

CONFERENCE PRESENTATIONS/ABSTRACTS

1. Cabas, A., (2019). On the Use of Site-specific Probabilistic Seismic Hazard Analysis and the Attenuation Parameter κ in Hazard Assessments of Critical Facilities. Proceedings from the Structural Mechanics in Reactor Technology (SMiRT) Conference, August 4-9 2019, Charlotte, NC.
2. Cabas, A., Chowdhury, I., Kaklamanos, J., Kottke, A., and Gregor, N. (2019), Bridging the gap between input motion selection protocols and geotechnical engineering analyses, Oral presentation at the 2019 SSA Annual Meeting, Seattle, WA, April 23-26, 2019.
3. Chowdhury, I., Cabas, A., Kaklamanos, J., Kottke, A., and Gregor, N. (2019), Challenges and Consequences of Input Motion Selection for Subduction Zone Environments: Seattle, Washington, Poster presentation at the 2019 SSA Annual Meeting, Seattle, WA, April 23-26, 2019.
4. Ji, C., and Cabas, A., Cotton, F., Pilz, M., and Bindi, D., (2019). Within station variability and uncertainty in kappa estimations: insights from various KiK-net downhole arrays, Poster presentation at the 2019 SSA Annual Meeting, Seattle, WA, April 23-26, 2019.
5. Koehler, R.D., Franke, K.W., Beyzaei, C.Z., Cabas, A., Pierce, I., Stuedlein, A., and Yang, Z., (2019), Initial observations from the GEER reconnaissance evaluation of the 2018 M7.0 Anchorage Alaska earthquake. Oral presentation at the 2019 SSA Annual Meeting, Seattle, WA, April 23-26, 2019.
6. Chowdhury, I., and Cabas, A. (2019). Ground Motion Selection for Regions Exposed to Diverse Seismic Sources. 2019 Geotechnical, Geophysical, Geoenvironmental Engineering, Technology Transfer Conference, Cary, NC, April 9-10, 2019.
7. Ji, C., and Cabas, A., Cotton, F., Pilz, M., and Bindi, D., (2019). Variability and uncertainty in near-surface attenuation estimations: effects of azimuth and earthquake type. 2019 Geotechnical, Geophysical, Geoenvironmental Engineering, Technology Transfer Conference, Cary, NC, April 9-10, 2019.
8. Sepulveda-Ramos, M., and Cabas, A. (2019). Understanding Key Ground Motion Intensity Measures for Seismic Hazard Assessment of Lifelines: Lessons Learned from Loma Prieta Earthquake. 2019 Geotechnical, Geophysical, Geoenvironmental Engineering, Technology Transfer Conference, Cary, NC, April 9-10, 2019.
9. Sepulveda-Ramos, M., and Cabas, A. (2019). Understanding Key Ground Motion Intensity Measures for Seismic Hazard Assessment of Lifelines: Lessons Learned from Loma Prieta Earthquake. Geo-Carolinas 2019, Charlotte, NC, March 4-5, 2019.
10. Ingabire-Abayo, N., Cabas, A., Montoya, B. (2019) Assessment of lateral spreading case histories from recent seismic events. Poster presentation at the NCSU Summer Undergraduate Research Symposium, Raleigh, NC, July 31st, 2018.
11. Ji, C., and Cabas, A., (2018) Investigation of the Dependence of Kappa Values on the Onset of Soil Nonlinearity as Captured by Shear Strain Index (PGV/Vs30). Poster

- presentation at the Seismology of the Americas (joint conference of the Latin American and Caribbean Seismological Commission (LACSC) and the Seismological Society of America (SSA)), Miami, FL, May 14-17, 2018.
12. Cabas, A., and Rodriguez-Marek, A., (2017), Estimation of Site-Specific Kappa (κ_0)-Consistent Damping Values at Selected Stations from the KiK-net Database. Poster presentation at the 2017 SSA Annual Meeting, Denver, CO, April 18-20, 2017.
 13. Chowdhury, I., and Cabas, A., (2017), Ground Motions from the August 24, 2016 Rieti Earthquake in Italy. Poster presentation at the Geotechnical Frontiers 2017 Conference, Orlando, Florida, March 12-15, 2017.
 14. Cabas, A., (2017), Improvements on the Assessment of Site-Specific Seismic Hazards. Oral presentation at the Third Annual Symposium on Geotechnical Engineering, NCSU, Raleigh, NC, February 3rd, 2017.
 15. Cabas, A., (2017), Influence of Input Motion Selection Protocols on Site Response Estimates. Oral presentation at the Annual Meeting of the Transportation Research Board, Washington, DC, USA, January 8-12, 2017.
 16. Cabas, A., and Rodriguez-Marek, A. (2015). Accounting for Impedance and Attenuation Effects on Input Ground Motions used in Site Response Analyses. Oral presentation at the 2015 Annual Meeting of the Seismological Society of America, Pasadena, CA, USA, April 21-24, 2015.
 17. Cabas (2015). Improvements to the Assessment of Site-Specific Seismic Hazards. Oral presentation at the Young Researcher's Symposium at the EERI 67th Annual Meeting 2015, Boston, MA, USA, March 31 - April 3, 2015.
 18. Cabas, A., and Rodriguez-Marek, A. (2015). Appropriate Ground Motions for Dynamic Analysis of Foundations. Poster presentation at the IFCEE/Geo-Congress 2015 Geo-Institute National Poster Competition, San Antonio, TX, USA, March 17-21, 2015. [3rd Place Poster Competition]
 19. Cabas, A., and Rodriguez-Marek, A. (2014). Influence of the Selection of Input Motions on the Systematic Errors Introduced in Site Response Analyses Conducted in Charleston, SC. Oral Presentation at the 86th Annual Meeting of the Eastern Section of the Seismological Society of America, Charleston, SC, USA, November 2-4, 2014.
 20. Cabas, A., Rodriguez-Marek, A., and Green, R. (2014). The Importance of the Elastic Half-Space Assumption in Site Response Analysis. Oral presentation at the 2014 Annual Meeting of the Seismological Society of America, Anchorage, AK, USA, April 30 - May 2, 2014. [Best Student Presentation Award]
 21. Cabas, A., Dawood, H., and Green, R. (2013). Comparative Site Response Analysis and Soil-Structure Interaction Assessment for the Washington Monument during the 2011 Mineral VA Earthquake. Poster presentation at the Geo-Congress 2013, San Diego, CA, USA, March 3-6, 2013.
 22. Cabas, A., Dawood, H., and Green, R. (2012). Comparative Site Response Analysis and Soil-Structure Interaction Assessment for the Washington Monument during the 2011 Mineral VA Earthquake. Oral presentation at the 84th Annual Meeting of the Eastern Section of the Seismological Society of America, Blacksburg, VA, USA, October 28-30, 2012.

23. Cabas, A., and Rodriguez-Marek, A. (2012), Ground Motions observed during the August 23rd, 2011 Mineral Virginia Earthquake. Poster presentation at the 2nd Civil and Environmental Engineering Department Research Day, Blacksburg, VA, USA, April 13, 2012. [Best Poster Competition]
24. Cabas, A., and Rodriguez-Marek, A. (2012), Ground Motions observed during the August 23rd, 2011 Mineral Virginia Earthquake. Poster presentation at the Geo-Congress 2012, Oakland, CA, USA, March 25-29, 2012.
25. Cabas, A., and Castro, C (2009). Risk-Based Dam and Reservoir Safety Management with Emphasis on Hydraulic, Hydrologic, and Operational Aspects. Application to El Bajo Caroní Dams. Oral presentation at the Civil Engineering Conference UCAB 2009, Caracas, Venezuela, June 18-20, 2009.

CONTRIBUTED/INVITED TALKS AND PRESENTATIONS

1. “Geotechnical Extreme Events Reconnaissance”, April 24 2019, Chancellor’s visit to the CCEE Department at NCSU.
2. “Rethinking Near-Surface Attenuation”, March 25 2019 [Presentation on behalf of the NCSU CNEFS in partnership with visiting professionals from Kore Hydro & Nuclear Power Company at NCSU].
3. “Seismic Risk in Central and Eastern US”. [Invited presentation at the 2018 ASCE NC Section Fall Conference], Cary, NC, September 21st, 2018.
4. “Geotechnical Earthquake Engineering”, June 28th , 2018 [Invited webinar at Universidad Católica Andrés Bello in Ciudad Guayana, Venezuela]
5. “Rethinking How We Parameterize Near-surface Attenuation”, March 23rd, 2018 [Invited talk at the University of Washington in Seattle, WA].
6. “Research Workshop”, Guest Speaker at the 2018 We are Women in Engineering event, NC State, NC, USA, March, 1st 2018.
7. “Estimation of Site-specific Kappa (κ_0)-Consistent Damping Values: Insights on laboratory-based damping models and observed attenuation in the field”, October 24th, 2017 [Invited talk at the University of Texas at Austin].
8. “Research Workshop”, Guest Speaker at the 2017 We are Women in Engineering event, NC State, NC, USA, March, 2nd 2017.
9. “ V_S - κ_0 Correction Factors for Input Ground Motions used in Seismic Site Response Analysis” Guest Speaker at the technical seminar sponsored by the EERI Student Chapter at NC State, Raleigh, NC, USA, October 19th, 2016.

PROFESSIONAL CONTRIBUTIONS

Professional Registration:

- Licensed Engineer, Venezuelan Association of Engineers, Registration Number: 198970.

Professional Affiliations:

- American Society of Civil Engineers (ASCE)
- Geo-Institute (GI)

- Earthquake Engineering Research Institute (EERI)
- Seismological Society of America (SSA)
- Tau Beta Pi, The Engineering Honor Society
- Chi Epsilon, The Civil Engineering Honor Society
- Venezuelan Association of Engineers (CIV)

Professional Service:

Technical Committees in Professional Organizations

- Soil Dynamics and Earthquake Engineering committee, ASCE Geo-Institute, member 2016 – present
- Seismic Design and Performance of Bridges, Transportation Research Board AFF50 Committee, member 2018 - 2021
- Women in Deep Foundations committee, Deep Foundations Institute, member 2014-present

Member of the NSF-GEER team, reconnaissance efforts after the M7.1 Anchorage, AK earthquake.

Conference-Session Chair [C] and Co-Chair [CC]

- Ground Motions and Site Response, ASCE Geotechnical Earthquake Engineering and Soil Dynamics V (GEESD) Conference [C]
- Soil Dynamics and Earthquake Engineering Track at GeoCongress 2020 [CC]
- Advances in Site Response Estimation: From Near-Surface Effects to Building/soil Interactions at 2020 SSA meeting [CC]
- Ground Motion Characterization, 2019 SMiRT [CC]
- PSHA Applications, 2019 SMiRT [CC]
- From source to site: Modelling and understanding of high-frequency ground motion, 2019 Seismological Society of America (SSA) Annual Meeting [CC]
- Soil Dynamics and earthquake engineering: Numerical Modeling, GeoCongress 2019 [CC]
- Advances on the Parameterization of Seismic Attenuation: Current Challenges and Opportunities, 2018 Seismology of the Americas [CC]
- Seismic Parameters 1, 2 and 3, 2017 Geotechnical Frontiers [CC]
- Closing the Gap between Laboratory-based Damping Models and Observed Attenuation of Seismic Waves in the Field, 2017 Seismological Society of America Annual Meeting [CC]

National Panels

- *Proposal review panelist*, US Geological Survey External Grants Panel Member, (FY 2019)
- *Panelist*, National Cooperative Highway Research Program (NCHRP), 2017-2020 [proposal review and project oversight]

Reviewer for scientific journals including: Journal of Geotechnical and Geoenvironmental Engineering (ASCE), Bulletin of the Seismological Society of America (BSSA), Soil Dynamics and Earthquake Engineering, Pure and Applied Geophysics, Seismological Research Letters (SRL), Bulletin of Earthquake Engineering (BEE), Earthquake Spectra.

Reviewer for conference proceedings:

- 2020 GeoCongress, Minneapolis, MN, February 25-28, 2020
- 2019 Transportation Research Record

- 2019 GeoCongress, Philadelphia, PA, March 24-27, 2019
- ASCE Geotechnical Earthquake Engineering and Soil Dynamics V Conference, Austin, TX, June 10-13, 2018
- ASCE IFCEE Student Poster Competition, Orlando, FL, March 5-9, 2018.
- 16th World Conference on Earthquake Engineering (16WCEE), Santiago de Chile, Chile, January 9-13, 2017.
- Geotechnical Frontiers Conference, Orlando, Florida, March 12-15, 2017
- Geo-Risk 2017, Denver, CO, USA, June 4-27, 2017.
- 3rd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering, Vancouver, Canada, July 16-19, 2017.
- XV Pan-American Conference on Soil Mechanics and Geotechnical Engineering, Buenos Aires, Argentina, November 15-18, 2015.
- 15th World Conference on Earthquake Engineering, Lisbon, Portugal, September 24-28, 2012.
- Geo-Risk 2011, Atlanta, GA, USA, June 26-28, 2011.

Professional Service On-Campus:

- Juntos Summer Academy – Future Ingenieros (July 2018)
- North Carolina School of Science and Math (NCSSM) summer experience (July 2017)
- We are Women in Engineering Event: Co-Organizer and Speaker (2017, 2018, 2019)
- Facilities and Equipment Committee, CCEE, (2016 – present)
- Diversity and Recruiting Committee, CCEE, (2016 – present)
- Undergraduate Programs Committee, CCEE, (2017 – present)

Professional Activities

- Curator, EERI Nepal Earthquake Clearinghouse, Geotechnical Impacts (May – Dec. 2015)
- Featured in the Jan/Feb 2016 issue of Pile Buck Magazine as a Deep Foundations Institute's Women in Deep Foundations committee member.

Professional Development:

- NSF RAPID Intensive Workshop, Seattle, WA July 2019
- Soil Structure Interaction short course, GEESD V, Austin, TX, June 10 2018.
- 2018 NSF CMMI CAREER Proposal Writing Workshop, March 25-27, 2018.
- 2018 Faculty Success Program, National Center for Faculty Development and Diversity, January-April 2018.
- *ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Workshop*, June 18-23 2017.
- *NSF-sponsored Geotechnical Women Faculty – Networked and Thriving Workshop*, Washington, DC, April 10-11, 2017.
- *NSF CAREER Program Workshop*, Research Development Office, North Carolina State University, Raleigh, NC, USA, Mar. 2017.
- *Teaching Crisis Clinic*, Dr. Richard Felder and Dr. Rebecca Brent, College of Engineering, North Carolina State University, Raleigh, NC, USA, 20 Jan. 2017.
- *New Faculty Orientation Workshop*, College of Engineering and College of Science, North Carolina State University, Raleigh, NC, USA, 4-9 Aug. 2016.

- *Via Academic Preparation Program*, Dr. Jennifer L. Irish, Associate Professor, Department of Civil and Environmental Engineering, Virginia Tech, Blacksburg, VA, USA, Aug. 2014 - May 2016.
- *Summer School on Simulation and Supercomputing in the Geosciences*, Society for Industrial and Applied Mathematics (SIAM), Monterey, CA, USA, July – Aug. 2012
- *OpenSees Workshop and Seminar*. Virginia Tech. Dr. Frank McKenna, Andrew Hardyniec, John Judd, and Scott Williams. Blacksburg, VA, USA, September 27-28, 2013.
- *Short Course: Seismic Site Response Analysis with GeoMotions Suite*. GeoMotions, LLC Modeling, Software, and Training for Geotechnical Earthquake Engineering. Dr. Neven Matasovic and Gustavo A. Ordoñez. Raleigh, NC, USA, May 18-19, 2012.
- *Virginia Tech Graduate School: Graduate Teaching Assistant (GTA) Workshop*, Dr. Janet Walberg Rankin, Associate Dean, Graduate School, Virginia Tech, Blacksburg, VA, USA, Aug. 2010.

STUDENT ADVISEES

<i>Name</i>	<i>Degree</i>	<i>Date</i>	<i>Dissertation/thesis title</i>
Sugandha Singh	Ph.D.	2019	Design Ground Motions compatible with High-frequency Energy Content in Low-to-Moderate Seismicity Regions
Ishika Chowdhury	Ph.D.	2020	Assessing variability and epistemic uncertainty in site response analysis
Chunyang Ji	Ph.D.	2021	Seismic attenuation parameterization for nonergodic probabilistic seismic hazard analysis.
Kyunguk Na	Ph.D.	2022	Dynamic Characterization of Bio-Mediated Soils
Cristina Lorenzo	Ph.D.	2023	Seismic Hazard Assessment of Lifelines: Insights on Site Effects and Spatially Variable Ground Motions
Nancy Ingabire-Abayo	Ph.D.	2023	Geomorphic and Geologic Considerations in Lateral Spreading
Maria E. Ramos Sepulveda	M.S.	2020	Spatial Variability of Ground Motion Intensity Measures Relevant to Lifelines
Rajprabhu Thangappa	M.S. (graduated)	2019	Scaling and spectral matching of ground motions

UNDERGRADUATE TRAINING AND MENTORING

- Cassie Gann (RISE student, Summer 2018, REU Fall 2019): Investigation of the Contribution of Input Motion Selection Protocols on Estimated Ground Motion Intensity Measures Relevant to Geotechnical Analyses.
- Nancy Ingabire Abayo (RISE student, Summer 2018): Assessment of lateral spreading case histories from recent seismic events.
- Tristan Miller (Spring 2017): Implementation of 1D linear seismic site response analysis using modified models of minimum shear strain damping.

- Daniela Espinoza-Pulgar (Fall 2017), Visiting scholar from Universidad de Concepcion in Chile): Liquefaction triggering in subduction zones.
- Patricia Cárcamo (Spring 2014, Visiting Researcher from Universidad Austral de Chile): Implications of the Elastic Halfspace assumption in Site Response Analysis

Research Awards won by students

- Ishika Chowdhury, Best presentation award at 2019 5th Annual Symposium in Geotechnical Engineering at NCSU.
- Nancy Ingabire-Abayo, Winner of Undergraduate Student Paper Award, 2018 EERI Undergraduate Student Paper Competition
- Ishika Chowdhury: Her work on “Ground Motions from the August 24, 2016 Rieti Earthquake in Italy” ranked within the top 6 submissions to the national poster competition at GeoFrontiers 2017.

INDUSTRY EXPERIENCE

Geotechnical Project Engineer, PREGO Geotechnical Engineering, Caracas, Venezuela (2008 – 2010)

- Participated in the design aspects of geotechnical engineering projects, such as:
 - Deep foundations for two bridges in the State of Anzoátegui, Venezuela.
 - Earth-retaining structures for two unstable slopes in Caracas, Venezuela.
 - Site exploration and subsurface characterization for a gym in the State of Miranda, Venezuela, as well as for multiple radio base stations across the country.
 - Geological survey and geotechnical site characterization for the section of the railway Tinaco-Anaco (total length of 468 km) between the Dos Caminos station and the Chaguaramas station (section length of approx. 135 km).
- Implemented and trained personnel on the use of the geotechnical data management and reporting software, gINT.