Nicole D. Jackson, Ph.D.

Senior Member of the Technical Staff Sandia National Laboratories jackson.nicole.d@gmail.com

 \Box +1 (312) 852.9734

https://ndjackso.github.io

Education -

Ph.D. Civil Engineering

2020

University of Illinois at Urbana-Champaign, Urbana, IL

Advisor: Megan Konar

Dissertation: From Global to Local: Understanding Linkages Between Climate Shocks and Food Security

M.S. Materials Science & Engineering

2014

University of Illinois at Urbana-Champaign, Urbana, IL

M.S. Engineering Mechanics

2008

Virginia Tech, Blacksburg, VA

Advisor: Scott Case

Thesis: Reliability-based Durability Assessment of GFRP Bars for Reinforced Concrete

B.S. Civil Engineering

2005

University of Illinois at Urbana-Champaign, Urbana, IL Minor in International Engineering – Germanic Studies

Professional and Research Appointments -

Senior Member of the Technical Staff

07/2021 - Present

Energy Water Systems Integration Department

Sandia National Laboratories, Albuquerque, NM

Postdoctoral Appointee 11/2019 – 07/2021

Energy Water Systems Integration Department

Mentors: Vincent Tidwell, Thushara Gunda, and Andrea Staid

Sandia National Laboratories, Albuquerque, NM

Graduate Research Assistant 01/2019 – 08/2019

Department of Bioengineering, Karin Jensen Research Group

University of Illinois at Urbana-Champaign, Urbana, IL

Graduate Research Assistant 08/2014 – 11/2019

Department of Civil & Environmental Engineering, Megan Konar Research Group

University of Illinois at Urbana-Champaign, Urbana, IL

Physical Sciences Trainee 06/2014 – 02/2016

Land Remediation and Pollution Control Division

U.S. Environmental Protection Agency, Cincinnati, OH

Project Manager 08/2013 – 08/2013

Learning-in-Community: Haiti Infrastructure and Development **University of Illinois at Urbana-Champaign**, Urbana, IL

Graduate Research Assistant 08/2008 – 04/2010

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Department of Civil & Environmental Engineering, John S. Popovics Research Group University of Illinois at Urbana-Champaign, Urbana, IL	
Graduate Research Assistant Department of Engineering Science & Mechanics, Materials Research Group Virginia Tech, Blacksburg, VA	01/2007 - 08/2007 08/2004 - 12/2005
Undergraduate Research Assistant Department of Civil & Environmental Engineering, John S. Popovics Research Group University of Illinois at Urbana-Champaign, Urbana, IL	05/2003 - 08/2003
Undergraduate Research Assistant Del E. Webb School of Construction, Christine Fiori Research Group Arizona State University , Tempe, AZ	06/2002 - 08/2002
Honors and Awards —	
Bay Area Research Slam Finalist 1 of 3 Sandia postdocs in a research competition sponsored by Lawrence Berkele tional Laboratory, Lawrence Livermore National Laboratory, Sandia National Laboratory and SLAC National Accelerator Laboratory	=
Sandia National Laboratories Postdoctoral Technical Showcase Third Place Recognition from the Sandia Postdoctoral Association	2020
Rising Stars in Civil & Environmental Engineering Participant Workshop for early-career women at the Massachusetts Institute of Technology	2019
Academic Leadership for Women in Engineering Travel Grant Recipient (\$2,000) Sponsored by the Society of Women Engineers) 2018
List of Teachers Ranked as Excellent with Outstanding Ranking (x2) Recognition at University of Illinois at Urbana-Champaign based on student course evaluation	2018 nations
Diversifying Faculty in Higher Education in Illinois Fellowship (\$30,000) Tuition and stipend provided by the State of Illinois	2017 – 2019
Mavis Future Faculty Fellowship (\$2,000) Fellowship from the University of Illinois at Urbana-Champaign College of Engineering	2017 – 2018
Congressional Visit Days Participant 1 of 2 members of the Illinois delegation sponsored by the American Geophysical Union	2017 on
Fall Conference Travel Grant Recipient (\$425) Sponsored by University of Illinois at Urbana-Champaign Graduate College and Depar of Civil & Environmental Engineering	2016 tment
Fall Conference Travel Grant Recipient (\$425) Sponsored by University of Illinois at Urbana-Champaign Graduate College and Depart of Civil & Environmental Engineering	2015 tment

Research Grants -

Total: \$2.217.000

"Completing the Feedback Loop: Linking Data, Operation and Maintenance, Manu- 2022 – 2024 facturers, and Insurance Markets"

Institutional PI (Sandia) with PI Adam Shinn (kWh Analytics), and Institutional PI Andy Walker (National Renewable Energy Laboratory), U.S. Department of Energy Solar Energy Technology Office, \$1,967,000 (DE-EE0009827)

Tuition and stipend provided by the National Science Foundation and Virginia Tech

"FY22 Strategic Initiative: Climate Impacts on National Critical Infrastructure" 2021 – 2022 **(CINCI)**

Senior Personnel with PI Jon Zimmerman (Sandia), Sandia National Laboratories, \$250,000

Peer-reviewed Publications -

7 peer-reviewed publications including 4 as first author (Google Scholar Page)

- [7] **N.D. Jackson** and T. Gunda. (2021) Evaluation of Extreme Weather Impacts on Utility-scale Photovoltaic Plant Performance in the United States, *Applied Energy*, Vol 302, pp 117508 (paper) (data)
- [6] **N.D. Jackson**, M. Konar, P. Debaere, and J. Sheffield. (2021) Crop-specific Exposure to Extreme Temperature and Moisture for the Globe for the Last Half Century, *Environmental Research Letters*, Vol 16, Issue 6, pp 064006 (paper) (data)
- [5] R. von Gnechten, J. Wang, M. Konar, K. Baylis, P. Anderson, S. Giroux, N.D. Jackson, and T. Evans. (2020) A Gravity Model and Network Analysis of Household Food Sharing in Zambia, *Environmental Research Letters*, Vol 15, Issue 11, pp 115010 (paper)
- [4] **N.D. Jackson**, M. Konar, P. Debaere, and L. Estes. (2019) Probabilistic Global Maps of Crop-Specific Areas from 1961 to 2014, *Environmental Research Letters*, Vol 14, Issue 9, pp 094023 (paper) (data)
- [3] M. Niazi, C. Nietch, M. Maghrebi, **N.D. Jackson**, B.R. Bennett, M. Tryby, and A. Massoudieh. (2017) Storm Water Management Model: Performance Review and Gap Analysis, *Journal of Sustainable Water in the Built Environment*, Vol 3, Issue 2, pp 04017002 (paper)
- [2] **N.D. Jackson**, M. Konar, and A.Y. Hoekstra. (2015) The Water Footprint of Food Aid, *Sustainability*, Vol 7, Issue 6, pp 6435-6456 (paper)
- [1] J.S. Popovics, G.P. Cetrangolo, and **N.D. Jackson**. (2006) Experimental Investigation of Impact-Echo Method for Concrete Slab Thickness Measurement, *Journal of the Korean Society for Nondestructive Testing*, Vol 26, Issue 6, pp 427-439 (paper)

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Manuscripts in Preparation

- [5] "Global Crop-Specific Trade Openness and Risk due to Extreme Temperature and Wetness for the Last Half Century" with Megan Konar, Peter Debaere, and Kathy Baylis
- [4] "Projecting Water Shortage: The Modeling Conundrum" with Vincent Tidwell, Nathalie Voisin, and Jim Yoon
- [3] "Estimating Wildfire-Induced Impacts to Photovoltaic Energy Production in the Western United States" with Samuel D. Gilletly and Andrea Staid
- [2] "Characterization of Weather During Large-Scale Power Outages in the United States" with Jinzhu Yu, Hiba Baroud, Andrea Staid, and JP Watson
- [1] "Long-term estimates of hazard risks to power system assets" with Joshua Mott and Andrea Staid

Conference Proceedings —

- [4] S. Gilletly, **N.D. Jackson**, and A. Staid. (2021) Quantifying Wildfire-Induced Impacts to Photovoltaic Energy Production in the Western United States, 48th IEEE Photovoltaic Specialists (PVSC), virtual (paper)
- [3] **N.D. Jackson**, K.I. Tyler, Y. Li, W. Chen, C. Liu and R. Bhargava. (2017) Keeping Current: An Update on the Structure and Evaluation of a Program for Graduate Women Interested in Engineering Academia, *ASEE Annual Conference & Exposition, Conference Proceedings*, Dayton, Ohio (paper)
- [2] K.I. Tyler, Y. Li, **N.D. Jackson**, W. Chen, C. Liu and R. Bhargava. (2017) Overcoming Difficulties in Research Statement Preparation for the Academic Job Search: Expansion of a Peer-Focused Professional Development Program, *ASEE Annual Conference & Exposition, Conference Proceedings*, Dayton, Ohio (paper)
- [1] **N. Jackson**, Y. Malave, C.L. Roberts-Wollmann, S. Case, and J. Lesko (2005) Reliability-based Uniform Flexural Resistance Factors for GFRP Reinforced Concrete Members, *Third International Conference for Composites in Construction*, Lyon, France

SAND Reports —

- [2] T. Gunda, N.D. Jackson, D. Sanchez, K. Klise, K. Ruehl, and S.Kuzio (2021) Advanced Data Analytics in Renewable Energy: Review of Capabilities, Needs, and Opportunities, Sandia National Laboratories, SAND2021-6297 R
- T. Gunda, A. Neal, P. Carlson, C. Richardson, J.A. Perez, M. Aamir, B. Anderson, and N.D. Jackson (2020) TAOS: A Tool for Assisting Organization Selections for Security Integrated Assessments", Sandia National Laboratories, SAND2020-10751

Invited Presentations —

- [9] A Tale of Two Models: Projecting Water Scarcity for the Colorado River Basin, AGU Fall Meeting, Virtual, December 2021.
- [8] Panelist, PV Magazine Roundtables: Optimizing systems and hardware to meet environmental and performance challenges, Virtual, November 2021.
- [7] Estimating Weather Impacts on Utility-Scale Photovoltaic Plant Performance, Bay Area Research Slam 2021, Virtual, October 2021.

- [6] Weather Impacts On Utility-Scale Photovoltaic Plant Performance, Materials and Structural Systems Division, National Institute of Standards and Technology, Virtual, October 2020.
- [5] Reusing Operations & Maintenance Records: Moving from Reactive to Proactive Management of Solar Photovoltaic Sites, Sandia National Laboratories Emeritus Meeting Early-Career Technical Showcase, Albuquerque, NM, March 2020.
- [4] Multi-Site Assessment of Extreme Weather Impacts on PV Plant Performance and Reliability, PV Reliability Workshop. Lakewood, CO, February 2020.
- [3] Climate Shocks, Agriculture and Trade, Civil and Environmental Engineering Department, Massachusetts Institute of Technology, October 2019.
- [2] Global Gridded Crop Specific Agricultural Areas from 1961-2014, Civil, Materials, and Environmental Engineering Department, University of Illinois at Chicago, February 2019.
- [1] Global Gridded Crop Specific Agricultural Areas from 1961-2014, Energy Water Systems Integration Department, Sandia National Laboratories, January 2019.

Contributed Presentations -

† - presentation by mentee

Oral Presentations

- [16] **N.D. Jackson**, V.C. Tidwell, N. Voisin, and J. Yoon. Do We Really Trust Projections of Water Scarcity: Case Study of the Colorado River Basin, American Meteorological Society Annual Meeting, Virtual, January 2022.
- [15] **N.D. Jackson**, T.Gunda, and A. Staid, Weather Impacts On Utility-Scale Photovoltaic Plant Performance, eLightning presentation, AGU Fall Meeting, Virtual, December 2020.
- [14] A. Miara (speaker), J. Macknick, H. Jager, V.C. Tidwell, B.M. Fekete, N. Rao, F. Corsi, C.J. Vörösmarty, N.D. Jackson, and S. Cohen, Water Risk for the Bulk Power System: Asset to Grid Impacts, AGU Fall Meeting, Virtual, December 2020.
- [13] **N.D. Jackson**, Evaluation of Extreme Weather Impacts on Utility-scale Photovoltaic Plant Performance, DuraMat Early Career Scientists Seminar Series, Virtual, October 2020.
- [12] **N.D. Jackson**, Multi-site assessment of extreme weather impacts on PV plant performance and reliability, Sandia National Laboratories 2020 Earth Science Symposium, Virtual, May 2020.
- [11] **N.D. Jackson**, T. Gunda, Incorporating compound weather events into utility-scale PV performance estimates, PV Performance Modeling Collaborative Workshop, Salt Lake City Utah, May 2020, NOTE: Cancelled due to COVID-19.
- [10] N.D. Jackson, M. Konar, P. Debaere, and J. Sheffield, Global climate shocks to agriculture from 1961 to 2014, eLightning presentation, AGU Fall Meeting, San Francisco, CA, December 2019.
- [9] M. Konar (speaker) and **N.D. Jackson**, Global gridded crop specific agricultural areas from 1961-2014. Fall Meeting of the American Geophysical Union. New Orleans, LA, December 2017.
- [8] **N.D. Jackson**, K.I. Tyler, Y. Li, W. Chen, C. Liu and R. Bhargava. Keeping Current: An Update on the Structure and Evaluation of a Program for Graduate Women Interested in Engineering Academia, ASEE Annual Conference & Exposition, Columbus, Ohio, June 2017.

- [7] K.I. Tyler (speaker), Y. Li, **N.D. Jackson**, W. Chen, C. Liu and R. Bhargava. Overcoming Difficulties in Research Statement Preparation for the Academic Job Search: Expansion of a Peer-Focused Professional Development Program, ASEE Annual Conference & Exposition, Columbus, Ohio, June 2017.
- [6] **N.D. Jackson**, M. Konar, and P. Debaere, Global crop allocation and climate shocks to agriculture from 1950-2015, Midwest Big Data Hub Machine Learning Workshop, Urbana, IL, April 2017.
- [5] **N. Jackson**, M. Konar, P. Debaere and J. Sheffield, Global climate shocks and crop allocation to agriculture from 1950 2015, Civil and Environmental Engineering Department Hydrology Seminar Series, University of Illinois at Urbana-Champaign, January 2017.
- [4] N. Jackson, M. Konar, P. Debaere and J. Sheffield, Global climate shocks to agriculture from 1950 -2015, AGU Fall Meeting. San Francisco, CA, December 2016.
- [3] **N.D. Jackson**, Climate change and drought in Marcala, Honduras, Rotary International Vocational Technical Training workshop to Agua y Desarrollo Comunitario, Marcala, Honduras. August 2015.
- [2] **N. Jackson**, M. Konar, A.Y. Hoekstra, The Water Footprint of Food Aid, Interdisciplinary Student Summit, Urbana, IL April 2015.
- [1] **N. Jackson**, Y. Malave, C.L. Roberts-Wollmann (speaker), S. Case, and J. Lesko. Reliability-based Uniform Flexural Resistance Factors for GFRP Reinforced Concrete Members (presentation), Third International Conference in Composites for Construction, Lyon, France, July 2005.

Poster Presentations

- [10] S. Gilletly (speaker), **N.D. Jackson** and A. Staid, Quantifying Wildfire-Induced Impacts to Photovoltaic Energy Production in the Western United States, June 2021.
- [9] **N.D. Jackson**, T.Gunda, and A. Staid, Weather Impacts On Utility-Scale Photovoltaic Plant Performance, PV Reliability Workshop, Virtual, February 2021.
- [8] N.D. Jackson and T. Gunda, Reusing Operations & Maintenance Records: Moving from Reactive to Proactive Management of Solar Photovoltaic Sites. Sandia National Laboratories 13th Annual Postdoctoral Technical Showcase, Albuquerque, NM, December 2019.
- [7] N.D. Jackson and T. Gunda, Reusing Operations & Maintenance Records: Moving from Reactive to Proactive Management of Solar Photovoltaic Sites, AGU Fall Meeting, San Francisco, CA, December 2019.
- [6] M. Konar (speaker), **N.D. Jackson**, P. Debaere, and J. Sheffield. Trade openness and climate shocks in agriculture, AGU Fall Meeting, San Francisco, CA, December 2019.
- [5] J. Kolweier (speaker)[†], T. Bhole (speaker)[†], and **N.D. Jackson**. Evaluating FAIRness for Effective Dataset Presentation. University of Illinois at Urbana-Champaign Undergraduate Research Symposium, April 2019.
- [4] R. von Gnechten (speaker)[†], M. Konar, **N.D. Jackson**, K. Baylis, P. Anderson, S. Giroux, T.P. Evans, A network analysis of household food sharing in Zambia, AGU Fall Meeting, San Francisco, CA, December 2018.
- [3] **N. Jackson**, M. Konar, A.Y. Hoekstra, The Water Footprint of Food Aid, AGU Fall Meeting, San Francisco, CA, December 2015.
- [2] **N. Jackson**, M. Konar, A.Y. Hoekstra. The Water Footprint of Food Aid, Illinois Water Day, Urbana, IL, April 2015.
- [1] **N. Jackson** and A-P Witmer, The Human-Water Nexus: Effective Engineering Lessons from Fatima, Honduras Water Project, Illinois Water Day, Urbana, IL, April 2015.

Media -

- [13] Sandia Lab News: "Sandia Shines in Inaugural Bay Area Postdoctoral Research SLAM" by Amy Treece, 10 December 2021.
- [12] Ars Technica: "The Stormy Relationship Between Solar Power and the Weather" by Doug Johnson, 14 September 2021.
- [11] PV Magazine: "Measuring Impacts on Solar Performance, Whatever the Weather" by Mark Hutchins, 01 September 2021.
- [10] Meteorological Technology International: "Snowstorms Found to Have the Biggest Impact on US Solar Farm Production" by Dan Symonds, 01 September 2021.
- [9] Technology Times: "Use of Machine Learning to Study Impacts of Severe Weather on US Solar Farms" by Zainab Asif, 01 September 2021.
- [8] Lab Manager: "Researchers Uncover Hidden Factors That Affect Solar Farms during Severe Weather", 01 September 2021.
- [7] Focus Technica: "Measuring Impacts, Whatever the Weather" by Peter Moore, 01 September 2021.
- [6] Eurasia Review: "Sandia Uncovers Hidden Factors That Affect Solar Farms During Severe Weather", 01 September 2021.
- [5] Tech Post and Science: "Machine Learning Identifies Hidden Factors That Affect Solar Farms During Severe Weather", 31 August 2021.
- [4] Tech Xplore: "Machine Learning Identifies Hidden Factors That Affect Solar Farms During Severe Weather", 31 August 2021.
- [3] Science Daily: "Hidden Factors That Affect Solar Farms During Severe Weather", 31 August 2021.
- [2] Environmental News Network: "Sandia Uncovers Hidden Factors That Affect Solar Farms During Severe Weather", 31 August 2021.
- [1] Sandia Lab News: "Sandia Uncovers Hidden Factors That Affect Solar Farms During Severe Weather" by Mollie Rappe, 27 August 2021.

Teaching -

8 semesters teaching experience with 3 as an instructor

† – Ranked as outstanding, ‡ – Ranked as excellent

F = Fall, Sp = Spring, Su = Summer

Role	Course Title	Academic Unit	Term
University of Illinois	at Urbana-Champaign		
Co-Instructor	iEFX Research	College of Engineering	Su 2018 [†]
Co-Instructor	Writing in the Engineering Fields	College of Engineering	Sp 2018 [†]
Teaching Assistant	Water Resources Engineering	Civil & Environmental Engineering	F 2015
Teaching Assistant	Mechanics for MatSE	Materials Science & Engineering	Sp 2014 [‡]
Teaching Assistant	Thermal-Mech Behavior of Matls	Materials Science & Engineering	F 2013
Teaching Assistant	Thermal-Mech Behavior of Matls	Materials Science & Engineering	F 2012

Virginia Tech

Instructor	Mechanical Behavior of Materials	Engineering Science and Mechanics	Su 2008
	Laboratory		
Teaching Assistant	Engineering Exploration	Engineering Education	F 2007

Mentorship —

Provided direct supervision to 3 graduate and 7 undergraduate students as well as mentored 52 students in 6 training programs

F = Fall, Sp = Spring, Su = Summer

Direct Supervision

* – From a demographic under-represented in STEM fields

Gra	duate	Stud	lents
Ula	uuatt	Juu	LLILS

Undergraduate Students		
Rachel von Gnechten*	University of Illinois at Urbana-Champaign	2017 – 2019
Mariah Caballero*	Sandia National Laboratories	F2020 - Present
Natalie Gayoso*	Sandia National Laboratories	F2021 - Present

Sinder graduate Stadenits		
Joshua Mott	Sandia National Laboratories	Su2020 - Present
Tanvi Bhole*	University of Illinois at Urbana-Champaign Undergraduate	Sp2019
	Research Apprenticeship Program (UIUC URAP)	
Jonathan Kolweier	UIUC URAP	Sp2019
Jacob Povlich	University of Illinois at Urbana-Champaign Civil & Environ-	Sp2018
	mental Engineering Research Experience for Undergradu-	
	ates (UIUC CEE REU)	
Rayan Fadel	UIUC CEE REU	Sp2018
Sajani Gumidyala*	UIUC CEE REU	Sp2016
Namrata Logishetty*	UIUC CEE REU	Sp2015

Training Programs

Role	Program	Students	Term
Professional Mentor	Florida International University Senior Capstone	5	F2021 - Present
Research Team Leader	Summer Research Opportunities Program	12	Su2019
	(SROP) & Incubating a New Community of		
	Leaders Using Software, Inclusion, Innovation,		
	Interdisciplinary and OpeN-Science (INCLUSION)		
Research Team Leader	SROP & INCLUSION	11	Su2018
Research Team Leader	SROP & INCLUSION	10	Su2017
Research Team Leader	SROP	8	Su2016
Research Team Leader	SROP	6	Su2009

Appointed or Elected Leadership

Steering Committee Member	Hazards Equity Workin	g Group f the Natural Hazards	2020 – Present
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Section, AGU

Board of Directors	Akelos	2016 – 2018
Membership Chair	Student Divsion, ASEE	2015 - 2016

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Committee Membership I	nvolvement	
Member	Natural Hazards Section Student and Early Career Committee, AGU	2019 - Present
Member	Earth & Space Science Informatics Honors Canvassing Committee, AGU	2019 – 2020
Conference Organization		
Primary Convener	Challenges and Opportunities to Tackle Uncertainty and Risk in the Energy-Water-Climate Nexus, Frontiers in Hydrology Meeting	2022
Co-Convener	Student & Early Career Voices at AGU, AGU Fall Meeting	2021
Co-Convener	Resilience Modeling of Energy Systems - Parts I/II, SRA Annual Meeting	2021
Co-Organizer	Student & Early Career Conference, AGU Fall Meeting	2019 - 2021
Reviewing Activities		
Reviewer	Earth's Future	2021 - Present
Conference Reviewer	IEEE Resilience Week	2021
Reviewer	Environmental Research Letters	2016 - Present
Conference Reviewer	ASEE Annual Convention	2015 – Present
Membership in Profession	al Societies	
Society for Risk Analysis (SRA)		2021 - Present
American Society for Civil Engine		2015 - Present
American Geophysical Union (AG	U)	2014 – Present
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Society of Women Engineers (SV	/É)	2014 – Present
Society of Women Engineers (SV American Society for Engineering	/É) Education (ASEE)	2014 - Present
Society of Women Engineers (SV American Society for Engineering Society for Industrial and Applied	/É) Education (ASEE) Mathematics (SIAM)	2014 - Present 2008 - Present
Society of Women Engineers (SV American Society for Engineering	/É) Education (ASEE) Mathematics (SIAM)	2014 - Present
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Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La	Description (ASEE) Mathematics (SIAM) boratory, and Community Service ————————————————————————————————————	2014 - Present 2008 - Present
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Society of Women Engineers (SV American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service ies Service Future Of Research in Climate, Earth and Energy	2014 – Present 2008 – Present 2004 – 2008
Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator Hiring Committee Member	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service — ies Service Future Of Research in Climate, Earth and Energy (FORCEE) Student Internship Program	2014 - Present 2008 - Present 2004 - 2008 2022 - Present
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Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator Hiring Committee Member Planning Member Core Member University of Illinois at Ur Laboratory Assistant	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service ies Service Future Of Research in Climate, Earth and Energy (FORCEE) Student Internship Program Climate Analytics Community of Practice Electric Grid Community of Practice Electric Grid Community of Practice Oana-Champaign Campus Service Girls' Adventure in Mathematics (GAMES), Engineering and Science Environmental Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee Worldwide Youth in Science & Engineering Camp	2014 - Present 2008 - Present 2004 - 2008 2022 - Present 2021 - Present 2020 - Present 2019
Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator Hiring Committee Member Planning Member Core Member University of Illinois at Ur Laboratory Assistant	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service Fies Service Future Of Research in Climate, Earth and Energy (FORCEE) Student Internship Program Climate Analytics Community of Practice Electric Grid Community of Practice Electric Grid Community of Practice Girls' Adventure in Mathematics (GAMES), Engineering and Science Environmental Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee Worldwide Youth in Science & Engineering Camp Engineering Ethics session	2014 - Present 2008 - Present 2004 - 2008 2022 - Present 2021 - Present 2020 - Present 2019 2017-2019 2017-2018
Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator Hiring Committee Member Planning Member Core Member University of Illinois at Ur Laboratory Assistant Interdisciplinary Representative Instructor	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service Fies Service Future Of Research in Climate, Earth and Energy (FORCEE) Student Internship Program Climate Analytics Community of Practice Electric Grid Community of Practice Electric Grid Community of Practice Girls' Adventure in Mathematics (GAMES), Engineering and Science Environmental Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee Worldwide Youth in Science & Engineering Camp Engineering Graduate Student Student Advisory Committee Roan-Champaign Campus Service Girls' Adventure in Mathematics (GAMES), Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee	2014 - Present 2008 - Present 2004 - 2008 2022 - Present 2021 - Present 2020 - Present 2019 2017-2019 2017-2018 2017-2018
Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator Hiring Committee Member Planning Member Core Member University of Illinois at Ur Laboratory Assistant Interdisciplinary Representative Instructor Chair	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service ies Service Future Of Research in Climate, Earth and Energy (FORCEE) Student Internship Program Climate Analytics Community of Practice Electric Grid Community of Practice Electric Grid Community of Practice oana-Champaign Campus Service Girls' Adventure in Mathematics (GAMES), Engineering and Science Environmental Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee Worldwide Youth in Science & Engineering Camp Engineering Ethics session Engineering Graduate Student Advisory Committee Campus Student Election Commission	2014 - Present 2008 - Present 2004 - 2008 2022 - Present 2021 - Present 2020 - Present 2019 2017-2019 2017-2018 2017-2018 2016-2017
Society of Women Engineers (SW American Society for Engineering Society for Industrial and Applied American Concrete Institute (AC University, National La Sandia National Laborator Hiring Committee Member Planning Member Core Member University of Illinois at Ur Laboratory Assistant Interdisciplinary Representative Instructor Chair Vice Chair	Education (ASEE) Mathematics (SIAM)) boratory, and Community Service Fies Service Future Of Research in Climate, Earth and Energy (FORCEE) Student Internship Program Climate Analytics Community of Practice Electric Grid Community of Practice Electric Grid Community of Practice Girls' Adventure in Mathematics (GAMES), Engineering and Science Environmental Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee Worldwide Youth in Science & Engineering Camp Engineering Graduate Student Student Advisory Committee Roan-Champaign Campus Service Girls' Adventure in Mathematics (GAMES), Engineering and Sustainability (EES) Camp Department of Civil and Environmental Engineering Graduate Student Advisory Committee	2014 - Present 2008 - Present 2004 - 2008 2022 - Present 2021 - Present 2020 - Present 2019 2017-2019 2017-2018 2017-2018

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Program, Jefferson Middle School, Champaign, IL

2004-2005

FIRST LEGO League of Virginia

Volunteer Judge