

Nishant Garg

Assistant Professor

University of Illinois Urbana-Champaign
Department of Civil and Environmental Engineering
2129 Newmark Civil Engineering Lab, Urbana, IL 61801

Phone: (217) 300-9448

Email: nishantg@illinois.edu

Web: garg.cee.illinois.edu

CURRENT EMPLOYMENT

10/2018 - **University of Illinois Urbana-Champaign**, *Assistant Professor*.
Present Department of Civil and Environmental Engineering

PREVIOUS EMPLOYMENT

2016-2018 **Princeton University**, *Postdoctoral Research Associate*.
Supervisor: Prof. Claire White

2012-2015 **Aarhus University**, *PhD Researcher*.
Supervisor: Prof. Jørgen Skibsted

2010-2012 **Iowa State University**, *Research and Teaching Assistant*.
Supervisor: Prof. Kejin Wang

2009 **STUP Consultants, India**, *Quality Control Engineer*.

EDUCATION

2012-2015 **PhD in Nanoscience**, *Aarhus University, Denmark*.
Thesis Title: *Structure, Reactivity, and Dissolution of Calcined Clays by Solid-state NMR*.

2010-2012 **MS in Civil Engineering Materials**, *Iowa State University, US*.
Thesis Title: *Raman spectroscopy for characterizing and determining the pozzolanic reactivity of fly ashes*.

2007-2010 **BE in Civil Engineering**, *Thapar University, India*.

2004-2007 **Diploma in Civil Engineering (Honors)**, *Chandigarh College of Engineering and Technology, India*.

AWARDS AND HONORS

2021 **Stephen Brunauer Award**, *Awarded the S. Brunauer award from the Cements Division of the American Ceramic Society*.

- 2019 **Collins Scholar**, *Recognized as Collins Scholar from the Academy of Excellence in Engineering Education, Grainger College of Engineering, UIUC.*
- 2018 **Journal of European Ceramic Society (JECS) Trust Grant**, *Awarded the JECS Trust Grant at the conference on alkali-activated materials and geopolymers in Tomar, Portugal.*
- 2017 **Princeton “Writing in Science and Engineering” (WISE) Teaching Fellowship**, *Awarded the prestigious postdoctoral fellowship which involves teaching scientific writing courses to the graduate students enrolled for the year of 2017-2018 at Princeton University.*
- 2016 **Gordon Conference Grant**, *Registration and accommodation fee waived for the Gordon Research Conference on Advanced Materials for Sustainable Infrastructure Development held at Hong Kong University of Science and Technology, Hong Kong.*
- 2014 **Danish NMR Oral Award**, *1st prize in Student Oral Presentation Competition at the 35th Danish NMR Meeting, Skælskør, Denmark.*
- 2013 **ICCM Poster Award**, *3rd prize in Poster Competition at the 1st International Conference on the Chemistry of Construction Materials, Berlin, Germany.*
- 2011 **ISU Poster Award**, *2nd prize in Annual Poster Presentation Competition at Department of CCEE, Iowa State University, Iowa.*
- 2011 **Eisenhower Fellowship**, *Awarded Dwight David Eisenhower Transportation Fellowship of 5,000 USD by US Federal Highway Administration.*
- 2011 **CMMI Travel Award**, *Awarded travel grant for NSF-CMMI Research and Innovation Conference Atlanta, Georgia.*

TEACHING AND MENTORING EXPERIENCE

(S denotes Spring semester (Jan - May) and F denotes Fall semester (Aug - Dec))

- S21,S22,S23 **Advanced Cement Chemistry (CEE 502)**, *Lecturer.*
 S24 Responsible for lecturing 10-15 graduate students
 Average Instructor Score of 4.10/5.00 over 3 semesters
 University of Illinois, Urbana-Champaign
- S19,S20,F21 **Behavior of Materials (CEE 300)**, *Lecturer.*
 F22,F23 Responsible for lecturing 80-90 undergraduate students
 Average Instructor Score of 4.08/5.00 over 5 semesters
 University of Illinois, Urbana-Champaign
- F21,S22 **Energy and Water Sustainability Seminar (CEE 595)**, *Organizer.*
 Responsible for organizing seminars for graduate students
 Average Instructor Score of 4.15/5.00 over 2 semesters
 University of Illinois, Urbana-Champaign
- S18 **Introduction to Materials Science and Engineering (MSE 301)**, *Lecturer.*
 Responsible for lecturing 30-40 undergraduate students
 Princeton Institute for Science and Technology of Materials (PRISM), Princeton University
- F17,S18 **Writing an Effective Scientific Research Article (WRI 503)**, *Instructor.*
 Responsible for teaching 12 advanced PhD students based on the awarded WISE Fellowship
 Princeton Writing Program, Princeton University
- F14 **Inorganic Chemistry**, *Lab Instructor and Study Café Instructor.*
 Responsible for lab sessions of two sections and grading lab reports.
 Department of Chemistry, Aarhus University, Denmark

F11,S11,S12 **Design of Portland Cement Concrete (CE 383)**, *Teaching Assistant*.
Responsible for lab sessions and grading reports/homework of two sections each semester
Department of Civil, Construction, and Environmental Engineering, Iowa State University

JOURNAL PUBLICATIONS (N = 32)

32. **2024** Kumar, V.; Baral, A.; Roesler, J.R.; **Garg, N.***; "Reducing Pb and Cl Mobility in Waste-to-Energy Fly Ashes via Chloroelastadite Formation" *ACS ES&T Engineering*.
31. **2024** Kong, T.; Kothari, C.; Qamhia, I.I.A.; Tutumluer, E.; **Garg, N.**; Peters, T.; Stolba, A.J.; "Freeze–Thaw Performance Trends of Short-Term Cured Cement-Stabilized Aggregate Quarry By-Product Materials" *Transportation Research Record*.
30. **2024** Bejjarapu, D.S.; Chen, Y.; Xu, J.; Shaffer, E.; **Garg, N.***; "Enhancing Learning Outcomes for Materials Crystallography via Virtual Reality: Role of User Comfort and Game Design" *Journal of Chemical Education*. [Featured on Journal Cover]
29. **2024** Witte, A.C.; **Garg, N.***; "Quantifying the Global Warming Potential of Low Carbon Concrete Mixes: Comparison of Existing Life Cycle Analysis Tools" *Case Studies in Construction Materials*.
28. **2024** Qadri, F.; Kumar, S.; **Garg, N.***; "Impact of C–S–H Seeds on Cementitious Hydration Kinetics: New Insights on Porosity and Microstructure" *Materials Today Communications*.
27. **2023** Samouh, H.; Kumar, V.; Santiago, H. **Garg, N.***; "Enhancing Phase Identification in Waste-to-Energy Fly Ashes: Role of Raman Spectroscopy, Background Fluorescence, and Photobleaching" *Journal of Hazardous Materials*.
26. **2023** Polavaram, K.C.; **Garg, N.***; "Elucidating the Size and Shape of Individual Clinker Phases via Raman Imaging: Impact on Cement Hydration" *The Journal of Physical Chemistry C*. [Featured on Journal Cover]
25. **2023** Qadri, F.; **Garg, N.***; "Early-stage Performance Enhancement of Concrete via Commercial C–S–H Seeds: From Lab Investigation to Field Implementation in Illinois, US" *Case Studies in Construction Materials*.
24. **2023** Kabir, H.; **Garg, N.***; "Rapid Prediction of Cementitious Initial Sorptivity via Surface Wettability" *npj Materials Degradation*.
23. **2023** Srivastava, S.; **Garg, N.***; "Tracking Spatiotemporal Evolution of Cementitious Carbonation via Raman Imaging" *Journal of Raman Spectroscopy*. [Featured on Journal Cover]
22. **2023** Sharma, R.; **Garg, N.***; "Superhydrophobic and Self-cleaning Aluminum via a Rapid and Controlled Process" *ACS Applied Engineering Materials*.
21. **2023** Kabir, H.; **Garg, N.***; "Machine Learning Enabled Orthogonal Camera Goniometry for Accurate and Robust Contact Angle Measurements" *Scientific Reports*.
20. **2022** Cheniour, A.; Li, Y.; Sanahuja, J.; Le Pape, Y.; Rodriguez, E.T.; Anovitz, L.M.; Polavaram, K.C.; **Garg, N.**; Rosseel, T.; "FFT-based Model for Irradiated Aggregate Microstructures in Concrete" *Materials and Structures*.
19. **2022** Baral, A.; Rodriguez, E.T.; Hunnicutt, W.A.; Cakmak, E.; Sun, H.; Ilavsky, J.; Le Pape, Y.; Rosseel, T.M.; **Garg, N.***; "Ultra-high Gamma Irradiation of Calcium Silicate Hydrates: Impact on Mechanical Properties, Nanostructure, and Atomic Environments" *Cement and Concrete Research*.

18. **2022** Romero, P.; **Garg, N.***; "Evolution of Kaolinite Morphology upon Exfoliation and Dissolution: Evidence for Nanoscale Layer Thinning in Metakaolin" *Applied Clay Science*.
17. **2022** Abdelrahman, O.; **Garg, N.***; "Impact of Na/Al Ratio on the Extent of Alkali-Activation Reaction: Non-linearity and Diminishing Returns" *Frontiers in Chemistry*.
16. **2022** Kumar, V.; **Garg, N.***; "The Chemical and Physical Origin of Incineration Ash Reactivity in Cementitious Systems" *Resources, Conservation and Recycling*.
15. **2021** Polavaram, K. C.; **Garg, N.***; "Enabling Phase Quantification of Anhydrous Cements via Raman Imaging" *Cement and Concrete Research*.
14. **2021** Kumar, V.; **Garg, N.***; "National and Regional Waste Stream in the United States: Conformance and Disparity" *Environmental Research: Infrastructure and Sustainability*.
13. **2021** Polavaram, K. C.; **Garg, N.***; "High-fidelity and High-resolution Phase Mapping of Granites via Confocal Raman Imaging" *Scientific Reports*.
12. **2019** Özcelik, V. O.; **Garg, N.**; White, C. E.; "Symmetry Induced Stability in Alkali Doped Calcium-Silicate-Hydrate" *Journal of Physical Chemistry C*.
11. **2019** **Garg, N.**; Özcelik, V. O.; Skibsted, J.; White, C. E.; "Nanoscale Ordering and Depolymerization of Calcium Silicate Hydrates in the Presence of Alkalis" *Journal of Physical Chemistry C*.
10. **2019** **Garg, N.**; Skibsted, J.; "Dissolution Kinetics of Calcined Kaolinite and Montmorillonite in Alkaline Conditions: Evidence for Reactive Pentahedral Aluminum Sites" *Journal of American Ceramic Society*.
9. **2018** White, C. E.; **Garg, N.**; Olds, D. P.; Vocaturo, J.; Everett, M.; Page, K.; "A Uniaxial Load Frame For Performing In Situ Neutron Studies of Stress-induced Changes in Cementitious Materials and Related Systems" *Review of Scientific Instruments*.
8. **2018** Yang, K.; Özclik, V. O.; **Garg, N.**; Gong, K.; and White, C. E.; "Drying-induced Atomic Structural Rearrangements in Sodium-based Calcium-Alumino-Silicate-Hydrate Gel and the Mitigating Effects of ZrO₂ Nanoparticles" *Physical Chemistry Chemical Physics*.
7. **2017** **Garg, N.**; White, C. E.; "Mechanism of Zinc Oxide Retardation in Alkali-activated Materials: an In Situ X-ray Pair Distribution Function Investigation" *Journal of Materials Chemistry A*.
6. **2016** **Garg, N.**; Skibsted, J.; "Pozzolanic Reactivity of a Calcined Interstratified Illite/Smectite (70/30) Clay" *Cement and Concrete Research*.
5. **2015** **Garg, N.**; Wang, K.; "Estimating Efficiency of Fly Ashes: an Alternative Definition of K Values" *Journal of Sustainable Cement Based Materials*.
4. **2014** **Garg, N.**; Skibsted, J.; "Thermal Activation of a Pure Montmorillonite Clay and its Reactivity in Cementitious Systems" *Journal of Physical Chemistry C*.
3. **2014** Wang, X.; Wang, K.; Li, J.; **Garg, N.**; and Shah, S. P. "Properties of Self-consolidating Concrete Containing High-volume Supplementary Cementitious Materials and Nano-limestone" *Journal of Sustainable Cement-Based Materials*.
2. **2013** **Garg, N.**; Wang, K.; Martin, S.W. "A Raman Spectroscopic Study of the Evolution of Sulfates and Hydroxides in Cement-fly Ash Pastes" *Cement and Concrete Research*.
1. **2012** **Garg, N.**; Wang, K.; "Comparing Performance of Different Clays on Fly Ash Modified Mortars" *Journal of Sustainable Cement Based Materials*.

Underlined authors are advisees, asterisk (*) indicates the corresponding author.

As of January 2024, my h-index is 14. Refer to my [Google Scholar profile](#) for more details.

CONFERENCE PUBLICATIONS (N = 22)

22. **2023** Ament, S.; Witte, A.C.; **Garg, N.**; Kusuma, J.; "Sustainable Concrete via Bayesian Optimization" NeurIPS (Conference on Neural Information Processing Systems), New Orleans, USA.
21. **2023** Witte, A.C.; **Garg, N.**; "Mineralogical Investigation of Coal Fly Ash using Combined SEM-EDS and Raman Spectroscopy" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
20. **2023** Samouh, H.; Kumar, V.; **Garg, N.**; "Mineralogical Characterization of Waste to Energy (WTE) Ashes - Insights from Raman Imaging" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
19. **2023** Qadri, F.; **Garg, N.**; "Impact of C-S-H Seeds on Cementitious Hydration Kinetics, Pore Structure, and Early Age Strength" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
18. **2023** Polavaram, K.C.; **Garg, N.**; "Assessment of Radiation-Induced Degradation in a Siliceous Rock via Correlative Characterization" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
17. **2023** Kumar, S.R.; Srivastava, S.; **Garg, N.**; "Spatial and Temporal Analysis of Carbonation Depth via Raman Spectroscopy and Imaging" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
16. **2023** Kothari, C.; Jee, H.; **Garg, N.**; "Role of Gypsum on Early Age Hydration of Alite Polymorphs (TI and TIII): A Temporal X-ray PDF Analysis" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
15. **2023** Kabir, H.; **Garg, N.**; "Low-Cost and Reliable Contact Angle Goniometry for Cementitious Materials" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
14. **2023** Jee, H.; Kothari, C.; **Garg, N.**; "In Situ X-ray Total Scattering Study on the Impact of Gypsum in C3S-Metakaolin-Limestone Systems" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
13. **2023** Baten, B.; Samouh, H.; **Garg, N.**; "A Particle Packing Approach for Eco-efficient Ultra High-Performance Concrete (E-UHPC)" International Congress on the Chemistry of Cement (ICCC), Bangkok, Thailand.
12. **2023** Polavaram, K.; Kothari, C.; Witte, A.C.; Srivastava, S.; Kumar, S.R.; Samouh, H.; **Garg, N.**; "Raman Imaging of Cementitious Systems" RILEM Meeting, Vancouver, BC, Canada.
11. **2022** Samouh, H.; Kumar, V.; **Garg, N.**; "Confocal Raman Imaging for Phase Identification of Municipal Solid Waste Incineration (MSWI) Ashes" RILEM Meeting, Japan.
10. **2022** Polavaram, K.; **Garg, N.**; "Multi-Modal Imaging Approach to Assess Radiation Damage in Concrete" RILEM Meeting, Japan.
9. **2022** Polavaram, K.; Tajuelo Rodriguez, E.; Cheniour, A.; Le Pape, Y.; **Garg, N.**; "Multi-Modal Characterization of Aggregates in Concrete via EDS and Raman Imaging." Oak Ridge National Lab.(ORNL), Oak Ridge, TN (United States).

8. **2022** Ge, X.; Goodwin; R.T.; Yu, H.; Romero, P.; Abdelrahman, O.; Sudhalkar, A.; Kusuma, J.; Cialdella, R.; **Garg, N.**; Varshney, L.R.; "Accelerated Design and Deployment of Low-Carbon Concrete for Data Centers." *ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS)*, Seattle, USA.
7. **2017** **Garg, N.**; Gomez, J. M.; White, C. E.; "Impact of Nano-sized Additives on the Atomic Structure and Reaction Kinetics of Alkali-activated Slag." *Proceedings of the 37th Cement and Concrete Science Conference*, London, UK.
6. **2015** **Garg, N.**; Dai, Z.; Rasmussen, K. E.; Skibsted, J.; "Pozzolanic Reactivity of Thermally Activated Kaolinite and Montmorillonite in Portland Cement Blends and their Impact on the Formed C-S-H Phase" *14th International Congress on the Chemistry of Cement*, Beijing, China.
5. **2015** Skibsted, J.; Dai, Z.; Rasmussen, K. E.; **Garg, N.**; "Thermal Activation and Pozzolanic Reactivity of Calcined Clay Minerals for Applications in Portland Cement Blends" *19th Internationale Baustofftagung Ibausil*, Weimar, Germany.
4. **2013** **Garg, N.**; Skibsted, J.; "Structure and Reactivity of a Thermally Activated Smectitic Clay by Solid-State NMR." *Proceedings of the 1st International Conference on the Chemistry of Construction Materials*, Berlin, Germany.
3. **2013** **Garg, N.**; Skibsted, J.; "Structure and Reactivity of a Thermally Activated Montmorillonite by Solid-State NMR Spectroscopy." *Proceedings of the 33rd Cement and Concrete Science Conference*, Portsmouth, UK.
2. **2013** Wang, K.; Shah, S.; Wang, X.; Li, J.; **Garg, N.**; "Properties of Self-consolidating Concrete Containing High Volume Supplementary Cementitious Materials and Nano-limestone" *Proceedings of the 5th North American Conference on the Design and Use of Self-Consolidating Concrete*, Chicago, USA.
1. **2012** **Garg, N.**; Wang, K.; "Applying Raman Spectroscopy For Studying Cement-Based Materials" *Proceedings of 2nd International conference on Microdurability*, Amsterdam, Netherlands. April, 2012. Published in "Microstructural-related Durability of Cementitious Composites" (*RILEM Publications SARL*), pp 275-282.

Underlined authors are advisees.

BOOK CHAPTERS AND REPORTS (N = 2)

2. **2023** Qadri, F.; **Garg, N.**; "Reducing Concrete Cure Times for Bridge Substructure Components and Box Culverts" Illinois Center for Transportation, Illinois Department of Transportation.
1. **2015** **Garg, N.**; Skibsted, J.; "Heated Montmorillonite: Structure, Reactivity, and Dissolution" *Proceedings of 1st international conference on Calcined Clay for Sustainable Concrete*, Lausanne, Switzerland. June, 2015. Published as a chapter in "Calcined Clays for Sustainable Concrete" RILEM Bookseries Volume 10, pp 117-124.

Underlined authors are advisees.

CONFERENCE PRESENTATIONS (N = 85)

85. **2024** Tracking and Quantifying the Extent of Carbonation via Raman Imaging, Rathnakumar, S.; **Garg, N.**; Oral Presentation, *1st RILEM International Conference on Mineral Carbonation for Cement and Concrete*, RWTH, Aachen University, Aachen, Germany.

84. **2024** Phase-Specific Characterization of Static and Dynamic Cementitious Systems via Raman Imaging, Garg, N.; Oral Presentation, *American Concrete Institute Spring Convention*, New Orleans, Louisiana.
83. **2024** On the Physio-Chemical Characterization of Multi-Binder, Eco Ultra-High Performance Concrete (E-UHPC), Baten, B.; Garg, N.; Oral Presentation, *American Concrete Institute Spring Convention*, New Orleans, Louisiana.
82. **2024** Predicting Sorptivity via Surface Wettability: A Computer Vision Approach, Kabir, H.; Garg, N.; Oral Presentation, *American Concrete Institute Spring Convention*, New Orleans, Louisiana.
81. **2024** Moving Towards Low-Clinker Limestone Calcined Clay Cement (LC3) - Insights on Carbonation Performance, Rathnakumar, S.; Garg, N.; Oral Presentation, *American Concrete Institute Spring Convention*, New Orleans, Louisiana.
80. **2024** An Ultra-Rapid Reactivity (UR²) Test for Real-Time, Low-Cost Quality Control of Calcined Clays, Min, Y.; Kabir, H.; Kothari, C.; Iqbal, F.; Garg, N.; Oral and Poster Presentation, *Advanced Materials for Sustainable Infrastructure Development (GRS)*, Ventura, California.
79. **2024** Reducing Chloride & Lead Release from Waste-to-Energy Ashes via Mineralogical Transformations, Kumar, V.; Baral, A.; Roesler, J.; Garg, N.; Poster Presentation, *Advanced Materials for Sustainable Infrastructure Development (GRS)*, Ventura, California.
78. **2024** Raman Imaging of Cementitious Systems, Polavaram, K.C.; Kothari, C.; Witte, A.C.; Rathnakumar, S.; Samouh, H.; Garg, N.; Poster Presentation, *Advanced Materials for Sustainable Infrastructure Development (GRS)*, Ventura, California.
77. **2024** Initial Sorptivity Prediction in Seconds, Kabir, H.; Garg, N.; Poster Presentation, *Advanced Materials for Sustainable Infrastructure Development (GRS)*, Ventura, California.
76. **2024** A VR Approach to Learning Materials Crystallography, Tabassum, N.; Shaffer, E.G.; Garg, N.; Poster Presentation and Demo, *IMMERSE Symposium*, Urbana, Illinois.
75. **2024** On the Physio-Chemical Characterization of Multi-binder Eco-Ultra-High-Performance Concrete (E-UHPC), Baten, B.; Garg, N.; Oral Presentation, Lectern Session, *Transportation Research Board 103rd Annual Meeting*, Washington, D.C.
74. **2024** Freeze-Thaw Performance Trends of Short-Term Cured Cement-Stabilized Aggregate Quarry By-Product Materials, Kong, T.; Kothari, C.; Qamhia, I.I.A.; Tutumluer, E.; Garg, N.; Peters, T.; Stolba, A. J.; Oral Presentation, Lectern Session, *Transportation Research Board 103rd Annual Meeting*, Washington, D.C.
73. **2024** Quantitative Characterization of Aggregate Mineralogy via Raman Imaging, Garg, N.; Oral Presentation, *AKM 80 Aggregates Committee, Transportation Research Board 103rd Annual Meeting*, Washington, D.C.
72. **2023** Silicon Ion Radiation as a Viable Surrogate for Emulating Neutron Radiation Damage in Silicates, Garg, N.; Oral Presentation, *Light Water Reactor Sustainability (LWRS) Stakeholder Meeting*, Oak Ridge National Lab, Tennessee.
71. **2023** Sustainable Concrete via Bayesian Optimization, Ament, S.; Witte, A.C.; Garg, N.; Kusuma, J.; Oral presentation, *NeurIPS (Conference on Neural Information Processing Systems)*, New Orleans, USA
70. **2023** Phase Characterization in Anhydrous CSA via Complementary XRD and Raman Imaging: Opportunities and Challenges, Kothari, C.; Garg, N.; Oral presentation, *2nd International Workshop on Calcium Sulfoaluminate Cements*, Rome, Italy.

69. **2023** Nanoscale Layer Thinning in Metakaolin upon Dissolution, Garg, N.; Oral presentation, *RILEM Week*, Vancouver, Canada.
68. **2023** Nanoscale Layer Thinning in Metakaolin upon Dissolution, Garg, N.; Oral presentation, *31st International Materials Research Congress*, Cancun, Mexico.
67. **2023** Elucidating Radiation-Induced Degradation in Siliceous Minerals via Multi-Modal Imaging, Polavaram, K.; Garg, N.; Oral presentation, *Goldschmidt Conference*, Lyon, France.
66. **2023** Phase Quantification of Anhydrous CSA Cements via Raman Imaging, Kothari, C.; Garg, N.; Oral presentation, *CSA Cements Seminar*, University of California, Los Angeles, California.
65. **2023** Enhancing Mineralogical Understanding of Fly and Bottom Ashes via Raman Imaging, Witte, A.; Garg, N.; Poster presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
64. **2023** Enhancing Rheology of Ultra-High-Performance Concrete (UHPC) Mixes through Optimization of Particle Packing and Water Demand, Baten, B.; Samouh, H.; Garg, N.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
63. **2023** Assessment of Irradiation Damage in Concrete via Correlative Imaging, Polavaram, K.; Garg, N.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
62. **2023** Low-cost Automated Orthogonal Camera Goniometry for Accurate Wettability Assessment of Cementitious Materials, Kabir, H.; Garg, N.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
61. **2023** Variability in Phase Identification and Quantification of OPC Cement via the X-ray Diffraction and Raman Imaging-based Methods, Kothari, C.; Garg, N.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
60. **2023** Radiation Impact on C-S-H and Aggregates, Rodriguez, E.T.; Baral, A.; Hunnicutt, W.A.; Garg, N.; Anovitz, L.M.; Cheshire, M.C.; Ilavsky, J.; Sun, H.; Cakmak, E.; Rosseel, T.; & Le Pape, Y.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
59. **2023** Fluorescence Mitigation in Raman Spectra of Waste-to-Energy Fly Ashes, Samouh, H.; Kumar, V.; Garg, N.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
58. **2023** Tracking Spatiotemporal Evolution of Cementitious Carbonation via Raman Imaging, Garg, N.; Oral presentation, *Cements Meeting, American Ceramic Society*, Columbia University, Manhattan, New York.
57. **2023** Influence of Gypsum on Tricalcium Silicate in Blended System: In Situ X-ray Total Scattering Study, Jee, H.; Kothari, C.; Garg, N.; Oral presentation, *Engineering Mechanics Institute Meeting, American Society of Civil Engineering*, Georgia Tech, Atlanta, Georgia.
56. **2023** Raman Imaging of Alkali Silica Reaction Product Formed Under Accelerated Conditions, Kothari, C.; Garg, N.; Oral presentation, *Engineering Mechanics Institute Meeting, American Society of Civil Engineering*, Georgia Tech, Atlanta, Georgia.
55. **2023** Tracking Spatiotemporal Evolution of Cementitious Carbonation via Raman Imaging, Garg, N.; Oral presentation, *Engineering Mechanics Institute Meeting, American Society of Civil Engineering*, Georgia Tech, Atlanta, Georgia.

54. **2023** Crystal Vision: Designing and Evaluating a Virtual Reality Game for Teaching Crystallography, Bejjarapu, D.S.; Garg, N.; Poster presentation, *15th International Conference on Computer Supported Education*, Prague, Czech Republic.
53. **2023** Permanent CO₂ Storage in Cement via Carbonation: Insights from Raman Imaging, Kumar, S.R.; Srivastava, S.; Garg, N.; Poster presentation, *Gordon Research Conference on Carbon Capture, Utilization, and Storage*, Les Diablerets, Switzerland.
52. **2023** Understanding Neutron Radiation Damage in Concrete via Correlative Characterization, Polavaram, K.C.; Garg, N.; Oral presentation, *American Concrete Institute Spring Convention*, San Francisco, California.
51. **2023** Using Raman Imaging for Understanding Mineralogy of Unconventional Ashes, Garg, N.; Oral presentation, *American Concrete Institute Spring Convention*, San Francisco, California.
50. **2023** Phase Quantification of Anhydrous CSA cements via Raman Imaging, Garg, N.; Oral presentation, *American Concrete Institute Spring Convention*, San Francisco, California.
49. **2023** Quantitative Characterization of Aggregate Mineralogy via Raman Imaging, Garg, N.; Oral presentation, *AKM 80 Committee Meeting, Transportation Research Board Meeting*, Washington D.C.
48. **2023** Using Raman Imaging for Characterizing Concrete Ingredients: From Aggregates to Clinker, Garg, N.; Oral presentation, *AKM 50 Committee Meeting, Transportation Research Board Meeting*, Washington D.C.
47. **2022** Metakaolin Pozzolanic Reactivity via Exfoliation & Dissolution, Garg, N.; Oral presentation, *American Concrete Institute Fall Convention*, Dallas, Texas.
46. **2022** Raman Spectroscopy & Imaging: What, How, and Why?, Garg, N.; Oral presentation, *American Concrete Institute Fall Convention*, Dallas, Texas.
45. **2022** Ultra-high Gamma Irradiation of Calcium Silicate Hydrates: Impact on Mechanical Properties, Nanostructure, and Atomic Environments, Garg, N.; Oral presentation, *Nuclear Science User Facilities (NSUF) Board Review Meeting*, (Virtual).
44. **2022** Understanding Metakaolin Pozzolanic Reactivity via Exfoliation & Dissolution, Garg, N.; Oral presentation, *International Conference on Calcined Clays for Sustainable Concrete*, EPFL, Lausanne, Switzerland.
43. **2022** Mapping Mineralogy of MSWI Ashes via Raman Imaging, Samouh, H.; Kumar, V.; Garg, N.; Oral presentation, *12th Advances in Cement-Based Materials*, University of California, Irvine.
42. **2022** Nanoscale Layer Thinning in Metakaolin Upon Dissolution, Garg, N.; Oral presentation, *12th Advances in Cement-Based Materials*, University of California, Irvine.
41. **2022** Utilizing Municipal Solid Waste Incineration Ashes to Realize a Circular Economy, Kumar, V.; Garg, N.; Poster presentation, *Gordon Research Seminar on Industrial Ecology*, Maine.
40. **2022** Mineralogical Compositions via Raman Imaging: From Granites to Clinkers, Garg, N.; Oral presentation, *Engineering Mechanics Institute 2022*, Johns Hopkins University, Baltimore, Maryland.
39. **2022** Elucidating Radiation Damage in Concrete via Multi-Modal Imaging, Polavaram, K. C.; Garg, N.; Poster presentation, *Materials Research Society*, Honolulu, Hawaii.

38. **2022** Tuning Behavior of Alkali-Activated Materials for Extreme Environments, Abdelrahman, O.; Garg, N.; Oral presentation, *ASCE Earth & Space Conference, the 18th Biennial International Conference*, Colorado.
37. **2022** Impact of Na/Al Ratio on Behavior of Alkali-Activated Metakaolin, Abdelrahman, O.; Garg, N.; Oral presentation, *46th International Conference and Exposition on Advanced Ceramics and Composites, American Ceramic Society*, Daytona Beach, Florida (Virtual).
36. **2021** Novel Raman Imaging Protocol for High-resolution Phase Mapping of Granite, Polavaram, K. C.; Garg, N.; Oral presentation, *PACRIM Conference, American Ceramic Society*, Vancouver, Canada (Virtual).
35. **2021** Municipal Solid Waste Incineration Ashes – A Precursor for Sustainable Ceramics, Kumar, V.; Garg, N.; Oral presentation, *PACRIM Conference, American Ceramic Society*, Vancouver, Canada (Virtual).
34. **2021** Raman Imaging: A New Technique for Old Problems, Garg, N.; Oral presentation, *ACI Fall Convention* (Virtual).
33. **2021** High-Fidelity and High-Resolution Phase Mapping of Granite via Raman Imaging, Polavaram, K. C.; Garg, N.; Oral presentation, *75th RILEM Week*, Merida, Mexico (Virtual).
32. **2021** Predicting Reactivity of Municipal Solid Waste Incineration Ashes, Kumar, V.; Garg, N.; Oral presentation, *75th RILEM Week*, Merida, Mexico (Virtual).
31. **2021** Rapid and Accurate Mineral Mapping of Granites using Raman Imaging, Polavaram, K. C.; Garg, N.; Poster presentation, *American Chemical Society Fall Convention*, Atlanta, Georgia.
30. **2021** Reactivity of Municipal Solid Waste Incineration (MSWI) Ashes in a Cementitious Matrix, Kumar, V.; Garg, N.; Oral presentation, *Goldschmidt Conference* (Virtual).
29. **2021** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, *11th Advances in Cement-Based Materials* (Virtual).
28. **2021** Performance of OPC blended with Municipal Solid Waste Incineration (MSWI) Ashes, Kumar, V.; Garg, N.; Poster presentation, *11th Advances in Cement-Based Materials* (Virtual).
27. **2021** High-Resolution Phase Mapping of Granite via a Novel Raman Imaging Protocol, Polavaram, K. C.; Garg, N.; Poster presentation, *11th Advances in Cement-Based Materials* (Virtual).
26. **2021** Novel Raman Imaging Protocol for High-Resolution Phase Mapping of Granite, Polavaram, K. C.; Garg, N.; Poster presentation, *3rd International Conference on the Chemistry of the Construction Materials*, Germany (Virtual).
25. **2021** Municipal Solid Waste Incineration Ashes - a Viable SCM. Garg, N.; Oral presentation, *American Concrete Institute Spring Convention*, Chicago, Illinois (Virtual).
24. **2021** Municipal Solid Waste Incineration Ashes - A Precursor for Sustainable Ceramics. Garg, N.; Oral presentation, *45th International Conference and Exposition on Advanced Ceramics and Composites*, American Ceramic Society Daytona Beach, Florida. (Virtual)
23. **2020** Understanding Impact of Gamma Radiation on C-S-H using ¹H NMR. Baral, A.; Rodriguez, E. T.; Le Pape, Y.; and Garg, N. Oral presentation, *ICIC Workshop on Effects of Gamma Irradiation of Cement Systems*. (Virtual).

22. **2020** Effects of Radiation on Concrete and its Components. Elena Tajuelo, David Arregui, Yujie Li, William Hunnicutt, Aniruddha Baral, Paramita Mondal, Nishant Garg, Lawrence Anovitz, Michael Cheshire, Tom Rosseel, Yann Le Pape. Oral presentation, *LWRS MRP Stakeholders Meeting*. ORNL (Virtual).
21. **2020** Understanding Impact of Gamma Radiation on C-S-H using ¹H NMR. Baral, A.; Rodriguez, E. T.; Le Pape, Y.; Garg, N. Poster presentation, *Gordon Research Conference on Advanced Materials for Sustainable Infrastructure Development* Ventura Beach, California.
20. **2020** Dissolution of Calcined Clays at the Atomic Scale: Evidence of Reactive Al(V) Sites. Garg, N.; Oral presentation, *44th International Conference and Exposition on Advanced Ceramics and Composites*, American Ceramic Society Daytona Beach, Florida.
19. **2019** Manipulating the Reaction Kinetics of Alkali-activated Materials using ZnO. Garg, N.; Oral presentation, *Workshop Internacional Proyecto Fondecyt Iniciación* Santiago, Chile.
18. **2019** Creepy Concrete: Understanding Concrete Creep in situ using Neutron Scattering. Garg, N.; Oral presentation, *Materials Research Society Fall Meeting* Boston, Massachusetts.
17. **2019** Dissolution of Calcined Clays at the Atomic Scale: Evidence of Reactive Al(V) Sites. Garg, N.; Oral presentation, *American Concrete Institute Fall Convention* Cincinnati, Ohio.
16. **2019** AI Tools for Optimizing Concrete Mixes. Ge, X.; Garg, N.; Varshney, L. Poster presentation, *Facebook Workshop* San Francisco, California.
15. **2019** Dissolution Kinetics of Calcined Clays: Evidence of Reactive Al(V) Sites. Garg, N.; Oral presentation, *10th Advances in Cement-based Materials*, American Ceramic Society Urbana, Illinois.
14. **2019** Manipulating Reaction Kinetics of Alkali-activated Materials using Nano-sized Additives. Garg, N.; Oral presentation, *43rd International Conference and Exposition on Advanced Ceramics and Composites*, American Ceramic Society Daytona Beach, Florida.
13. **2018** Effect of Alkalis on the Atomic Structure of C-S-H: Insights from X-Ray PDF and NMR. Garg, N.; Skibsted, J.; White, C. E. Oral presentation, *9th Advances in Cement-based Materials*, American Ceramic Society University Park, Pennsylvania.
12. **2018** Retardation in Alkali-Activated Materials via Zinc Oxide: Mechanism and Implications. Garg, N.; White, C. E. Oral presentation, *Alkali Activated Materials and Geopolymers*: Tomar, Portugal.
11. **2017** Impact of Nano-sized Additives on the Atomic Structure and Reaction Kinetics of Alkali-activated Slag. Garg, N.; Gomez, J. M.; White, C. E. Oral presentation, *37th Cement and Concrete Science Conference* London, UK.
10. **2017** Impact of Alkalis on the Atomic Structure of Calcium Aluminosilicate Gels: An X-ray Pair Distribution Function Investigation. Garg, N.; White, C. E. Oral presentation, *253rd American Chemical Society Conference (Geochemistry Division)* San Francisco, USA.
9. **2016** Manipulating the Atomic Structure of Alkali-Activated Materials with Nanoparticles. Garg, N.; White, C. E. Poster presentation, *Gordon Research Conference* Hong Kong University of Science and Technology, Hong Kong.
8. **2016** Impact of Nanoparticles on the Atomic Ordering of C-(N)-A-S-H Gels: New Insights from Synchrotron X-rays. Garg, N.; White, C. E. Oral presentation, *Cements 2016 Meeting of American Ceramic Society* Northwestern University, Illinois, USA.

7. **2015** Heated Montmorillonite: Structure, Reactivity, and Dissolution. Garg, N.; Skibsted, J. Oral presentation, *1st International Conference on Calcined Clay for Sustainable Concrete* Lausanne, Switzerland.
6. **2014** Structure and Reactivity of a Heated Montmorillonite Clay Probed by ²⁹Si and ²⁷Al MAS NMR Spectroscopy. Garg, N.; Skibsted, J. Poster presentation, *56th Annual Rocky Mountain Conference on Magnetic Resonance* Colorado, USA.
5. **2014** Solid-state NMR Investigation of a Heated Clay*. Garg, N.; Skibsted, J. Oral presentation, *35th Danish NMR Meeting* Skælskør, Denmark. (*Won best student presentation award)
4. **2013** Structure and Reactivity of a Thermally Activated Smectitic Clay*. Garg, N.; Skibsted, J. Poster presentation, *International Conference on the Chemistry of Construction Materials* Berlin, Germany. (*Won 3rd best poster award)
3. **2013** Structure and Reactivity of a Thermally Activated Montmorillonite by Solid-state NMR Spectroscopy. Garg, N.; Skibsted, J. Oral presentation, *33rd Cement and Concrete Science Conference* Portsmouth, UK.
2. **2013** Activated Phyllosilicates for Replacement of Cement. Garg, N.; Skibsted, J. Oral presentation, *34th Danish NMR Meeting* Aalborg, Denmark.
1. **2011** Using Raman Spectroscopy for Analyzing Fly Ashes. Garg, N.; Wang, K. Poster presentation, *TVA-Kingston Fly Ash Release Environmental Research Symposium* Tennessee, USA.

Underlined authors are presenters.

INVITED PRESENTATIONS (N = 30)

30. **2024** Small-scale Characterization of Complex Systems, Garg, N.; Oral presentation, *R&D at Heidelberg Materials*, Heidelberg, Germany.
29. **2024** Three Tiny Tales from the World of Construction Materials, Garg, N.; Oral presentation, *Wiss, Janney, Elstner Associates (WJE)*, Northbrook, Illinois
28. **2024** History and Future of Construction Materials, Garg, N.; Oral presentation, *Thapar Institute of Engineering and Technology*, Patiala, India
27. **2023** Rapid Prediction of Sorptivity: From Hours to Seconds, Garg, N.; Oral Presentation, *Anna Maria Workshop XXIII*, Holmes Beach, Florida
26. **2023** Addressing Concrete Durability and Sustainability with AI: Role of Computer Vision and Machine Learning, Garg, N.; Keynote Lecture, *Neville Symposium and Adam Neville PhD Competition at University of Leeds*, UK, Virtual
25. **2023** Raman Imaging: A New Technique for Old Problems, Garg, N.; Oral presentation, *ETH Zurich*, Switzerland.
24. **2023** Gypsum for/in/to Concrete, Garg, N.; Oral presentation, *Meta Headquarters*, San Francisco, California.
23. **2023** Advanced Imaging of Construction Materials, Garg, N.; Oral presentation as Invited Honorary Guest, *National Institute of Technology*, Trichy, Tamil Nadu, India.
22. **2023** Advanced Construction Materials: From Granite to Cement, Garg, N.; Oral presentation as Invited Discussion Leader in Technologies for Low-Carbon and Lean Construction (TLC2), *Indian Institute of Technology*, Madras, India.

21. **2023** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Rice University](#), Houston, Texas.
20. **2023** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Penn State University](#), Virtual.
19. **2022** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Texas A&M University](#), College Station, Texas.
18. **2022** Raman Imaging: a Concrete Tool for Concrete Sustainability, Garg, N.; Oral presentation, *Anna Maria Workshop*, Anna Maria Island, Florida.
17. **2022** Embodied Carbon of Concrete, Garg, N.; Oral presentation, *Airports Going Green Conference*, Chicago, Illinois.
16. **2022** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [University of Texas at Austin](#), Austin, Texas.
15. **2022** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Cornell University](#), Ithaca, New York.
14. **2022** Innovations in Construction Materials, Garg, N.; Oral presentation, *Chicago Innovate Symposium*, Chicago, Illinois.
13. **2022** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Purdue University](#), West Lafayette, Indiana.
12. **2022** Design & Deployment of Low Carbon Concrete for Data Centers, Garg, N.; Oral presentation, *Gordon Research Conference on Advanced Infrastructure Materials*, Tuscany, Italy.
11. **2022** Elucidating Radiation Damage in Concrete via Multi-Modal Imaging, Garg, N.; Oral presentation, *International Committee on Irradiated Concrete*, Italy (hybrid presentation).
10. **2022** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Virginia Tech](#), Blacksburg, Virginia.
9. **2022** Impact of Na/Al ratio on Behavior of Alkali-Activated Metakaolin, Garg, N.; Oral presentation, *46th International Conference and Exposition on Advanced Ceramics and Composites*, Virtual.
8. **2021** Raman Imaging: a New Technique for Old Problems, Garg, N.; Oral presentation, [Carnegie Mellon University](#), Pittsburgh, Pennsylvania.
7. **2021** Sustainable and Resilient Concrete, Garg, N.; Oral presentation, *Illinois Transportation and Highway Engineering Conference*, Urbana, Illinois. (Virtual)
6. **2021** Municipal Solid Waste Incineration Ashes – A Precursor for Sustainable Ceramics, Garg, N.; Oral presentation, *45th International Conference and Exposition on Advanced Ceramics and Composites*, Virtual
5. **2020** Understanding Impact of Gamma Irradiation on C-S-H using ¹H NMR, Garg, N.; Oral presentation, *ICIC Workshop on Effects of Gamma Irradiation of Cement Systems*, Virtual, (Online, originally scheduled for Italy)
4. **2020** Dissolution of Calcined Clays at the Atomic Scale: Evidence of Reactive Al(V) Sites, Garg, N.; Oral presentation, *44th International Conference and Exposition on Advanced Ceramics and Composites*, Daytona Beach, Florida
3. **2019** Manipulating the Reaction Kinetics of Alkali-activated Materials using ZnO, Garg, N.; Oral presentation, *Workshop Internacional Proyecto Fondecyt Iniciación* at [Pontifical Catholic University of Chile](#), Santiago, Chile.

2. **2019** Manipulating Reaction Kinetics of Alkali-activated Materials using Nano-sized Additives, Garg, N.; Oral presentation, *43rd International Conference and Exposition on Advanced Ceramics and Composites (ICACC 2019)*, American Ceramic Society, Daytona Beach, Florida.
1. **2016** Alternative Cements: What and Why?, Garg, N.; Oral presentation, *Energy Seminars at Andlinger Center for Energy and the Environment*, [Princeton University](#), New Jersey, USA.

INDUSTRIAL EXPERIENCE

Aug 2009- **Quality Control Engineer**, *Internship at a railway over-bridge construction site*, STUP
 Dec 2009 Consultants Pvt. Ltd., Punjab, India.

MEDIA COVERAGE

- Nov 2023** Garg participated in the podcast “Engineering Greatness” sponsored by the American Concrete Institute where he talks about his career and research. Recording is available [here](#).
- Sep 2023** Garg presented a research webinar to 60 alumni from the CEE department at the University of Illinois. Recording of the webinar, titled “Three Tiny Tales from the World of Construction Materials”, is available [here](#).
- Jul 2023** Our recent work on rapid estimation of cementitious sorptivity was covered by the [Illinois News Bureau](#).
- Dec 2022** An article titled “Crystals in Trash” was published in the newsletter of the International Union of Crystallography (IUCr).
- Nov 2022** Garg was interviewed by the Illinois Public Media on his work on reducing embodied carbon of concrete. The story is available [here](#) (Garg’s interview appears after the 8:23 mark.)
- May 2022** A story featuring our team was released in the morning edition of [NPR](#).
- Apr 2022** Our recent [research work with Meta](#) (formerly Facebook) where we designed low-carbon concrete recipes (low OPC and high SCM) and deployed them in a Facebook data center in DeKalb, Illinois - was covered by media outlets such as [ENR](#), [Engadget](#), and [CNET](#).

PROFESSIONAL SERVICE AND LEADERSHIP

Internal Service (University of Illinois Urbana-Champaign)

- 2020-Present CEE Advisory Committee
- 2020-Present CEE Grad Affairs Committee
- 2020-2021 NSEL Advisory Committee

External Service

- American Ceramic Society (ACerS)

Associate Member – Young Professional Network, Cements Division (2016 - Present)

- Co-chair and Organizer of "10th Advances in Cement-based Materials Conference", Urbana, Illinois (June 2019) with 150+ attendees

- American Concrete Institute (ACI)

Young Professional Member (2016 – Present)

- Committee 123 - Research and Current Developments: Voting Member
- Committee 236 - Material Science of Concrete: Associate Member
- Committee 241 - Nanotechnology of Concrete: Associate Member
- Organizer and moderator of sessions such as "Research in Progress" and "123 Forum" with 50+ attendees.

- American Society of Civil Engineers (ASCE)

Engineering Mechanics Institute (EMI) Member (2021 - Present)

- Properties of Materials Committee: Member
- Organizer and moderator of mini-symposium on "Small Scale Phenomena in Sustainable and Complex Materials"

- Transportation Research Board (TRB)

Young Professional Member (2022 - Present)

- Standing Committee on Advanced Concrete Materials and Characterization: Member

- International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM)

Young Member (2021 - Present)

- Technical Committee 309-MCP - Accelerated Mineral Carbonation for the production of construction materials: Member
- Session Chair of S2: Carbonation Mechanisms at the 1st RILEM International Conference on Mineral Carbonation for Cement and Concrete, RWTH, Aachen University, Aachen, Germany (April 2024)

RESEARCH ADVISEES

Postdocs (N = 1)

1. Dr. Yujia Min (2022 - Present)

PhD Candidates (N = 11)

1. Hossein Kabir (2020 - Present)
2. Faisal Qadri (2020 - Present)
3. Bayezid Baten (2021 - Present)
4. Vikram Kumar (2021 - Present)
5. Chirayu Kothari (2021 - Present)
6. Hyeonseok Jee (2021 - Present)
7. Brandy Diggs-McGee (2021 - Present)
8. Tausif Elahi (2022 - Present)
9. Farjad Iqbal (2022 - Present)
10. Aysan Farajnia (2023 - Present)
11. Momina Rauf (2023 - Present)

MS Candidates (N = 7)

1. Mohamed Abdelrahman (2022 - Present)
2. Sudharsan Rathnakumar (2022 - Present)
3. Sunav Dahal (2023 - Present)

4. Nanzeeba Tabassum (2023 - Present)
5. Nischal Kanel (2023 - Present)
6. Yaman Garg (2023 - Present)
7. Ayyan Iqbal (2024 - Present)

Alumni (N = 9)

- 2024: Krishna C. Polavaram (PhD), Dr. Hamza Samouh (postdoc)
2023: Omar Abdelrahman (MS), Jacob Doehring (MS), Dhanush S. Bejjarapu (MS), Andrew Witte (MS)
2022: Pablo Romero (MS), Sonali Srivastava (MS), Ravi Sharma (MS)

Student Awards and Fellowships

- American Concrete Institute S.P. Shah Fellowship, Hossein Kabir - 2024
- Energy Biosciences Institute Postdoctoral Fellowship, Dr. Yujia Min - 2023
- American Concrete Institute President's Fellowship, Bayezid Baten - 2023
- DIGI-MAT (NSF-NRT) Fellowship, Hyeonseok Jee - 2023
- Carver Fellowship, Tausif Elahi - 2022
- American Coal Ash Association Fellowship, Andrew Witte - 2022
- Ravindar K. and Kavita Kinra Fellowship in Civil and Environmental Engineering, UIUC (Krishna C. Polavaram - 2019, Sonali Srivastava - 2020, Chirayu Kothari - 2021, Yaman Garg - 2023)

Last updated 05/15/24