

# Nea Maloo, FAIA

NOMA | NCARB | LEED | AP ICC

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## Academic Appointments

- 2013-present                      Assistant Professor, Howard University, Department of Architecture  
Teaching varied range of courses: Studio Design, Professional Practice, Building Science + Technology Courses  
Developed new interdisciplinary Architecture courses:
- Sustainability of Traditional and Historic buildings in India (travel to India as component), Ecology and Architecture
  - Building Decarbonization – From Theory to Practice
  - Managing Sustainable Design and Decarbonization projects, Howard University and Stanford University
  - Equitable High-Performance buildings, Environmental Justice + Health + Decarbonization

## Professional Practice

- 2007-present                      Founder / Principal Architect, Showcase Architects and Developers, North Bethesda, MD

## Published Papers

- Sage Encyclopedia contributor “Environmental Justice in built Environment”, Forthcoming
- Technical paper “ “ Solar 2024, conference proceedings, forthcoming.
- Book Chapter “Building Decarbonization “Forthcoming
- Noma Journal “Transformation of school Education design”, with Jeff Luker, Quinn Evans, European - Susana Figueroa and Nuno
- Maloo, N. & Dahlia (2019-20) “*Strategic methods of Integrating Building science and Design?*”, published at the 108th Annual Meeting, ACSA Association of Collegiate Schools of Architecture (A’20)
- Maloo, N. & Onyango, J. , University of Notre Dame); “*Analysis of impact of Window design detail on energy demand profile of typical hotel*”, peer reviewed and published (2019)  
<http://mts.intechopen.com/articles/show/title/isbs-2019-4th-international-sustainable-buildings-symposium>, chapter 54
- Maloo, N, "*Healing of patients with Nature's positivity and Social distraction* " Poster published at HIBR- NIH (2018)

## Awards / Fellowships

- Appointed, First Cohort, Faculty- Applied Clean Energy Sciences (FACES), National Renewable Energy Laboratory (NREL), June – Aug 2024
- Deans Equity and Inclusive Initiative Fellow, cohort #3, 2023-34 Dumbarton Oaks, DC
- Faculty mentor, 2023 Solar Decathlon (won third place in international competition), National Renewable Energy Laboratory, U.S. Department of Energy.
- Elevated to the Fellows in American Institute of Architects (2023)
- Invited member, Advisory Board 2023, MSI STEM Research and Development Consortium (MSRDC), an intent

to collaborate on Department of Energy (DOE) project “Building Energy Innovation and Minority Serving Institutions Partnerships”.

- Planning, and Visual Education (PAVE) Global, Educator of the Year Award (2022)
- Awarded Zero Energy design designation, Department of Energy, Howard University (2022)
- Appointed by Governor of Maryland to Real Estate Commission (2022)
  
- Lumen Circles, Fellowship, “*Evidence based teaching*”, Howard University (2022)
  
- Research and Collaboration with HBN (Healthy Building Network and student for curriculum integration, raised \$23,000 (2021-2022)
- Howard University + Stanford University partnership, raised \$50,000 for new course Building Decarbonization for student scholarship (2021-2023)

### Presentations *(most recent)*

- Speaker, “Designing High-Performance Buildings with a Focus on Equity: A U.S Department of Energy Solar Decathlon Case Study”, Solar 2024, American Solar Energy Society, Geroge Washington, DC, May 2024
- Invited speaker “Women in Solar Energy”, American Solar Energy Society, Geroge Washington, DC, May 2024
- Invited Speaker, “Carbon neutral design” HBCU Forum, UDC, Washington DC, April 2024
- Invited Speaker, “Perspectives on Architecture for Education in the Nation’s Capital” Committee on Education, AIA 24, national conference, Washington DC, June
- Moderator, “Ecology of Design “, ACSA 112 Annual meeting, Vancouver, BC, CA, March 2024
- Invited Panelist, “Abolish Professional Practice: A Turncoats-Style Debate “, ACSA 112 Annual meeting, Vancouver, BC, CA, March 2024
- Invited Panelist, “Bringing your whole Self to Work: Aligning Academy and Practice to meet Personal and Professional” AIA, Vancouver, BC, CA, March 2024
- Organizer, “Allies Against The climate Crisis: Harnessing AI AS a Design Tool for Environmental Justice within Architectural Education, Vancouver, BC, CA, March 2024
  
- Panelist, Society for College and University Planning, July 2023, Cleveland, Ohio
- Panelist, Workshop, “Healthy Europe 2023”, Aachen, Germany
- Speaker, “ZEDD” National Webinar, DOE, February 2023
- Speaker, Construction Institute Annual Program Advisory Committee Meeting, CIFE Stanford, 2022
- Speaker, “Decarbonization as Curriculum”, Angolan embassy, Howard University
- Speaker, “*Transformation with Education* “, AIADC, Committee of Education, September 2022
- Moderator, “Equity as Policy - Making Connections - Research to Practice”, Health in Building Roundtable, September 2022
- Speaker, NOMA 2022, “*Transformations: Evolving educational landscapes improve outcomes and strengthen communities*”, Jeff Luker, Quinn Evans, Susana Figueredo Oliveira, Portugal
- Speaker, Global Conference on Sustainability in Higher Education, September 2022, “*Building Decarbonization Education for the Next Generation*“, Association for the Advancement of Sustainability in Higher Education, with Peter Rumsey
- Panelist, Center for Excellence in Teaching, Learning and Assessment, “Let’s Talk spotlight on Lumen Fellows”, June 2022
- Panelist, Building Decarbonization Teaching Symposium, with Dean Bailey (4<sup>th</sup> Howard student and Ray Tesiero, Professor NCA&T, Zaria Ankar - Student NCA&T, May 2022

## Research Grants

- **Maloo N.**, PI, “Student Training in Applied Research (STAR) Program”, National Renewable Energy Laboratory, U.S Department of Energy, 89,900, 2023-2024 Student research,- LCA of a fungi-based insulation product and Life Cycle Assessment” NREL, U.S Department of Energy, 89,900, 2023-2024
  - **Maloo N.**, PI, HBCU clean energy Education Prize, partnership track, with Carlton Waterhouse, Dr. Burke Janelle, Dr. Amy and Drexel University, ongoing, 2023-2025
- **Maloo PI**, for Howard University, Environmental justice and education EPA grant, “VERE-LCA: Validating and Expanding Research and Education for LCA Policy, University of Washington, Howard University, and UC Berkeley, with PNNL, \$1.20000, 2023-27
- **Maloo N**, Energy Education Prize, Partnership Track, DOE, 2023, \$100,000, Funded
- Maloo N, Energy Education prize, Inspire track, DOE,2023, \$50,000, not funded.
- **Maloo, N.**, PI, Healthy Building Network: Plan and implement student-designed research projects that address the human and environmental health impacts of building materials, especially in the context of affordable housing design and environmental justice implications of materials (2021-22). Student research, “Climate Change & the Material Disparity in Underdeveloped Communities”.
- **Maloo, N. (team member)**, Dr Marin C., PI, Civil Engineering, Howard University, University of Kentucky and Southern Illinois University: “*Infrastructure Safety Monitoring*”, Civil Engineering Department, NSF Convergence Accelerator, awarded 2020-21, [Infrastructure Safety Monitoring with Artificial Intelligence \(ISMwithAI\)](#)
- **Maloo, N(co PI)**, Dr. Mosleh, M, PI, Howard University”, “*Industry- research inclusion in STEM education (I-RISE)*”, Department of Education, awarded 2019-2020, <https://howardirise.wixsite.com/mseip-irise>.1st, 2020; Project Bid: \$300,000