

ACADEMIA

2013 – PRESENT

DEPARTMENT OF ARCHITECTURE, COLLEGE OF ENGINEERING AND ARCHITECTURE,
HOWARD UNIVERSITY, WASHINGTON DC, Assistant Professor

Experienced architecture educator and researcher specializing in sustainable design, decarbonization, and environmental justice. Developed and led interdisciplinary courses at Howard University, including award-winning programs, fostering innovation, global collaboration, and student mentorship. Distance learning certified, with expertise in traditional, hybrid, and virtual course delivery.

Design Courses:

- Design Communications 1 (5 credits)
- ARCH 266 - Pre -Design
- ARCH 101 - Design 1 (6 credits)
- ARCH 102 -Design 2(6 credits)
- ARCH 202 - Design 4 (6 credit)

Practice Courses:

- ARCH 751 - Professional Practice

Building Science + Technology Courses:

- ARCH 501 - Structures 501
- ARCH 502 - Structures 502
- ARCH 521 - Intro to Environmental Systems 1
- ARCH 522 - Intro to Environmental Systems 2
- Arch 540- Building Decarbonization –Theory + Practice, (Professional Elective)

Interdisciplinary courses: (Civil Engineering, environmental studies, and other disciplines)

- ARCH003 - Architecture & Environment, (Professional Elective)
- ARCH 440 - Ecology and Architecture, (Professional Elective)
- ARCH 311 - Southeast Asia, Art, and Architecture, (Professional Elective)
- Arch 842- Independent Studies

Developed and led new Architecture and interdisciplinary courses

- Arch 312- Sustainability of Traditional and Historic buildings in India (Travel to India as component)
- Arch 440 -Ecology and Architecture
- Arch 540/740- Building Decarbonization – From Theory to Practice (3 credits)(undergraduate /Graduate (Money raised 23,000(2021), 17,500(2022), 27,000(2023))
- ARCH 542/741- Managing Sustainable design projects and Decarbonization project (3 credit), Howard University and Stanford University
- ARCH 442/ 842– Equitable High-Performance buildings
- ARCH 443/843- Environmental Justice + Health + Decarbonization, Award winning course

Koru Mindfulness new Courses:

As a certified Koru instructor, I teach mindfulness as the ability to be fully attentive to all the moments of one's life, reducing the student's stress and improving their focus.

- Fall 2021 – CEA Students, in person.
- Spring 2022 – Virtual, staff, CEA -faculty and Students
- Spring 2022 – CEA Students, in person, Mackey building

2010 – 2014

UNIVERSITY OF DISTRICT OF COLUMBIA, COMMUNITY COLLEGE, WASHINGTON DC

Adjunct Professor – Design and Theory, Construction Management

- Introduction to Computer Aided Design CADD
- Introduction to History of Architecture
- Architectural Drawing and Design1
- Architectural Drawing and Design 2
- Architectural Design 3
- Architectural Drawing and Design 4
- CADD Doc/specification and Estimation
- Mechanical and Electrical Systems
- Structural Design
- Environmental Systems 2
- Revit technology

2008– 2010

MONTGOMERY COLLEGE, ROCKVILLE MD

Adjunct Professor – Graphics

- Introduction to Architectural Drawing,
- Introduction to Architectural Graphics and Presentation

PROFESSIONAL PRACTICE

- 2007–Present, **Showcase Architects and Developers**, North Bethesda
Founder, Principal Architect, Developer and Sustainability, Land planning, single-family residential design, construction management, green architecture, interior and commercial design, renovation/remodeling, new construction, Design/Build Eco Estates.
- 2007-2004, **Interior Solutions Masterworks**, Rockville, MD

Designer for new residential, institutional, hospitality, and commercial construction
- 2001-2004, **Panoramic Design**, Washington, DC
Construction management, architectural designer, space planning, and presentation
- 1999 -2001, **Sorg and Associates**, Washington, DC
Project architect, State Department Projects, residential, schools, child care center, Edgar Hoover office building lobby renovation, EPA, multi-family housing
- 1998 -1999, **Sheladia Associates**, Rockville, MD
Construction documents and RFP
- 1996-1998, **S.S. Architects**, Tamil Nādu, India
Interior design projects, including hotels and retail stores.

EDUCATION

- Elevated to the Fellows in American Institute of Architects, 2023
- Koru certified, mindfulness and meditation teacher, 2022
- AIA, Disaster Safety Assessment. Trained Evaluator (SAP), Registered (91600) 2021
- Koru Trained Mindfulness, Certified Iyengar Yoga trained teacher, 2021
- International Code Council (ICC) Plumbing Inspector, Residential Inspector, 2020
- National Council Architectural Registration Board (NCARB) Certificate Holder (81226), BIM certification, 2015
- Yoga Alliance certification (200 RYT), 2015

- Registered Architect, State of Maryland (14591), 2005
- Registered Architect -District of Columbia (100836), 2005
- Registered Architect- Commonwealth of Virginia, US (81226), 2007
- LEED AP, USGBC, 2004
- Master of Architecture and Urban Planning, India
Thesis: "Waterfront Development and Planning in Urban Metropolis," Anna University, 1998
- Bachelor of Architecture and Urban Planning, India
Thesis: "MIOT- Ortho Trauma Hospital and Rehabilitation," Anna University, 1996

AWARDS

- Awarded, Fair Housing, consumer education 2024, Association of Real Estate License Law Officials, ARELLO, Chicago, Illinois
- Faculty mentor, 2023 Solar decathlon won third place in international competition, NREL, U.S. department of Energy.
- Elevated to the Fellows in American Institute of Architects, 2023
- Educator of the year 2022 award, PAVE, Planning, and visual education global.
- Awarded Zero Energy design designation (ZEDD), Department of Energy, Howard University, 2022-25
- Course Development Prize in Architecture, Climate Change, and Society. ACSA + Buell center, *"Environmental Justice (EJ) + Health + Decarbonization*, \$10,000 prize to develop course at Howard University, 2022
- Lumen Circles, Fellowship, *"Evidence based teaching"*, Howard University, Spring 2022.
- Featured Teacher 2 -CETLA (center for Excellence in Teaching, Learning and Assessment), Howard University, 2018
- HU- Teach Finalists, conversion of course to Hybrid teaching, 2018.
- Faculty Mentor for Overall Student Research Award, Howard University, 2017
- Winner, Solar Roof table competition, Thomas Circle, Washington, DC, 2014. Guided team of architecture/multidisciplinary students win the competition at Howard University,

- Gold Medal for academic excellence/ project appraisal in thesis, 1998
- Winner NASA sponsored competition for design, 1994.
- Won the Formica Interior Design Corporate competition, 1993.
- Team member winning the Louis I. Khan Trophy for National Level Competition, India, 1993.

FELLOWSHIP/ APPOINTMENTS

- Selected to Host, NCARB 2024, Professional Practice scholars, Howard University, Aug 2025
- Selected, Nea Maloo, Dean's Equity and Inclusion Initiative Fellow, 2023-2024, nominated by Chair of Howard university, <https://www.deansequityandinclusioninitiative.com/fellows>
- Selected, First Cohort, Faculty- Applied Clean Energy Sciences (FACES), National Renewable Energy Laboratory (NREL), June – Aug 2024
- Howard University Junior faculty fellowship 2024, Peer elected, Winter green resort, 2024
- Invited to DEII Fellow, cohort #3, 2023-34 Dumbarton Oaks, DC
- Invited member for new advisory board 2023, MSI STEM Research and Development Consortium (MSRDC), an intent to collaborate on a Department of Energy (DOE) project titled, Building Energy Innovation and Minority Serving Institutions Partnerships, which aims to develop a grass roots and data-driven engagement strategy to increase the participation and representation of researchers, the workforce, and communities currently underrepresented in the Buildings ecosystem; specifically (minority populations, low socioeconomic, rural, sexual and gender minorities, and Minority Serving Institutions)
- Appointed to Presidents Bison council for strategic committee, 2024-45
- Appointed, Decanal search for college engineering and Architecture
- Appointed, ACSA counselor, Howard University, 2023-2026
- Appointed, Licensing Advisor, NCARB, 2024-2026

- Faculty mentor, 2023 Solar decathlon won third place in international competition, NREL, U.S. department of Energy.
- Lumen Circles, Fellowship, *"Evidence based teaching"*, Howard University, Spring 2022.
- JAE Fellowship "Climate justice with Decarbonization, 2022 (submitted)
- Research and Collaboration with HBN (Healthy Building network and student for curriculum integration, raised \$23,000.00(twenty-three thousand dollars), 2021-22
- Howard University + Stanford University partnership, Raised \$17,500.00 for new course Building decarbonization for student scholarship, collaboration teaching with Stanford. Summer 2021
- NCARB Scholars in Professional Practice fellowship, San Luis obispo, Cal poly, 2021.
- International Network of Networks for Well-Being in the Built Environment (IN2WIBE) Artificial Intelligence for Healthy Buildings Workshop invited members workshop, Nov 2-4, 2021.
- International Network of Networks for Well-Being in the Built Environment (IN2WIBE) workshop, March 2021
- Sho-Ping Chin Women's Leadership Summit Grant, Women in Leadership Grant recipient, Minneapolis, 2019

EXHIBITION

- Curator, *"Creative Resilience: Carbon + Complexity,"* Octagon Exhibition, March 2025
- Curator, Student work Lumina Exhibition, HBCU Marthas Vineyard Union chapel, *HBCU Arts Summer Festival schedule*, August 2024
- Curator, *Showcase student work Exhibition*, First Unitarian Universalist Church of Houston, Nov, Dec 2024-25
- Curator, Solar decathlon Lumina work, *Envision," Resilience: Designs for Living with Rising Seas"*, New Bedford, Massachusetts., 2024

PUBLISHED PAPER

- Maloo N & Daniel Sagan, Peer Reviewed paper *"Evaluating Embodied Carbon Tools for Sustainable Architectural Performance"* BTES conference 2025, Forthcoming.

- Maloo N, peer Reviewed paper “*Designing for Carbon Reduction: Tools and Strategies in the Built Environment*”, EDRA56, Halifax, Nova Scotia, Forthcoming, 2025
- Maloo N, & Robert Hermann, selected video book chapter” *Lifecycle of Architectural Firm*”, ACSA and NCARB, PROPEL, forthcoming 2025
- Maloo N, Peer- Reviewed Poster “*Expanding Sustainability Assessments: Integrating Environmental, Social, and Resilience Metrics*”, EDRA56, Nova Scotia, Forthcoming, 2025
- Maloo N & N Jonathan Unaka, Peer reviewed conference proceedings “*Implementing Decarbonization Across Contexts: From Wampanoag to the Amazigh: Sustainable Design for Community*” 8th International Conference on Construction, Real Estate, Infrastructure, and Project Management (ICCRIP) on August 23, 2024, at NICMAR University, Pune, India
- Maloo N & Adele Houghton, “*Using Climate Justice as a Lens for Updating Building Benchmarks and Awards Programs*”, 2025 ARCC International conference: Emerging Challenged: technological, environmental, social, University of Maryland, 2025, forthcoming.
- Maloo, Instruction chapter, open source “*Equitable decarbonization for all*”, customized learning solutions, FACES application <https://openei.org/wiki/FACES>
- Maloo N, invited author, “*Environmental Justice in built Environment*”, Encyclopedia of Environmental Justice Sage Publications, Forthcoming
- Maloo, N, Peer reviewed, Case study paper,” *Designing High-Performance Buildings with a Focus on Equity: A U.S. Department of Energy Solar Decathlon Case Study*” “<https://www.proceedings.com/77496.html> “Solar 2024, <https://doi.org/10.52202/077496> conference proceedings, Published, Jan 2025
- Maloo N, Book Chapter “*Building Decarbonization – Theory to Practice*”, Teaching Carbon Neutral Design in North America Twenty Award-Winning Architectural Design Studio Methodologies, Ed. Robin Pullock, 2025
- Maloo N, Peer reviewed and published in Noma first Journal “*Transformation of school Education design*”, with Jeff Luker, Quinn Evans, European - Susana Figueroa and Nuno, JNOMA 2022 Conference Proceedings, [e3 - NOMA](#)
- Maloo, N. & Dahlia “*Strategic methods of Integrating Building science and Design?*”, published at the 108-annual meeting, ACSA Association of Collegiate Schools of Architecture (A’20)

- Maloo, N. & Onyango, J, “*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 (National Institute of Health) 2018

SPEAKER CONFERENCE

- Speaker, Individual presentation “*Innovation through Competition: Pedagogical Approaches to Zero-Carbon Housing Design*” EDRA56, Nova Scotia, Forthcoming, 2025
- Speaker, Group presentation “*Climate Justice in Architecture: Examples in Teaching and Practice*”, EDRA56, Nova Scotia, Forthcoming, 2025
- Speaker, “*Interdisciplinary Pedagogy,*” NCARB Scholars, Howard University, Aug 2024
- Invited speaker, “*Equitable Decarbonization for all* “ for DOE for people, Hampton university, VA, Oct 2024
- Selected Subject matter expert, “framework for climate justice in architecture”, “AIA National conduct a research project, Adele Houghton,2024
- Speaker, “The pricing of Carbon calculation tools “. Howard University Junior Faculty Fellowship 2024, Falls church, VA, 2024
- 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, Gerge Washington, DC, May 2024
- Invited speaker “*Women in Solar Energy*”, American Solar Energy Society, Gerge 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
- Speaker, “Teaching building decarbonization to next generation”, national workshop AASHE, Feb 29, 2024, Stanford BDLA.
- Invited Keynote, keynote speaker at our upcoming Solar Technology Research Trainee Program Meeting, January 18th and 19th at the University of the District of Columbia MSI research and development,2024.
- Speaker, “Decarbonization of buildings”, Data center engineering, George Mason University, Oct 25, 2023
- Speaker “Designing High-performance Buildings with a Focus on Equity: Howard University Case Study”, Trimble Dimensions, Nov 06-08, 23, Las Vegas.
- Maloo N, speaker, Methods of teaching Decarbonization, Developing Decarbonization curriculum, HBCU teachers, July 2023
- Speaker, NCARB Region 2 Student/Educator/Practitioner Symposium on Thursday, September 21 and Friday, September 22
- Maloo N, Speaker, Environmental Justice, and Climate: How Teaching Building Decarbonization to the Next Generation of AEC Professionals Will Fulfill Our Promise, Greenbuild Conference, Washington DC, Sept 2023
- Maloo N, organized President, BTES bi- conference, Cosanti and Arcosanti, June 2023
- Maloo N, “Professional Practice “Architects licensing advisor summit, Aug 2023
- Maloo N, Panelist, SCUP (society for college and university planning), July 2023, Cleveland, Ohio

- Maloo N, organizer, Workshop, “Healthy Europe 2023, “Aachen Germany
- Maloo, N speaker, “ZEDD”, national webinar, Feb 2023
- Maloo, N speaker, Construction Institute Annual Program Advisory committee meeting, CIFE Stanford, 2022
- Maloo, N, speaker “*Decarbonization as curriculum*”, Angolan embassy, Howard University
- Maloo, N speaker, “*Transformation with Education* “AIADC, Committee of Education, Sept 2022
- Maloo, N, Moderator,” *Equity as policy -Making Connections- Research to Practice*” Health in Building Roundtable, Sept 28,29, 2022.
- Maloo, N speaker, NOMA 2022, *Transformations: Evolving educational landscapes improve outcomes and strengthen communities*, Jeff Luker, Quinn Evans, Susana Figueredo Oliveira, Portugal, European union.
- Maloo N, Speaker, Global conference in Sustainability in higher Education Sept 2022, “*Building Decarbonization Education for the Next Generation* “Association for the Advancement of Sustainability in Higher Education, with Peter Rumsey.
- Maloo, N Panelist, Center for Excellence in Teaching, Learning and assessment “*Let’s Talk spotlight on Lumen Fellows*”, June 15,2022
- Maloo, N, panelist, “*Building Decarbonization Teaching Symposium*”, with Dean Bailey (4th Howard student and Ray Tessier , Professor NCA&T, Zaria Ankar - Student NCA&T May 17,2022
- Maloo, N, speaker “*Inter-disciplinary research and built form*”, Reconstruct, state University of Arizona, April11-14.22
- Maloo, N Speaker at UDC spring lecture series “*Building Decarbonization*”, Virtual, DC
- Maloo, N, speaker “*Environmental justice with Building Decarbonization* “, Climate - teach in, Howard university inter-disciplinary research.

- Maloo, N Presenting at ACSA 110 Annual meeting, Course prize development Environmental Justice (EJ) + Health + Decarbonization, Los Angeles, California
- Maloo, N Session Topic, Organized and moderator "*Leading Climate Justice through Integrating Decarbonization Strategies into the Curriculum*," has been accepted for the Call for Special Sessions. ACSA110 Annual Meeting, March 2022
- Maloo, N presented "*Mindfulness for all*," Howard University
- Maloo, N, Jeff Luker and Sandra Little, Quinn Evans, Ron Skyles, PG county schools, speaker "*Disruption and Regeneration: How Covid19 is redefining "classrooms"*" NOMA national conference Oct 20-23, 2021. Detroit, Virtual
- Maloo, N, Peter Rumsey, Stanford University, speaker "*Building Decarbonization*" Lawrence Berkley national laboratory LBNL), Sept 29, 2021. Virtual
- Maloo, N, Bradford grant, (HU) Bill wash (HBN) speaker "*Anti-racist Sustainability*" Green Build Conference, San Diego, Sept. 2021. Virtual and Live
- Maloo, N, Peter Rumsey , Stanford University, Patrick Thibodeau, JLG architect speaker "*Building Decarbonization*" CIFE Summer program, Stanford University, Sept 15. 2021. Virtual
- Maloo, N, Peter Rumsey, Stanford University speaker "*Building Decarbonization*" Hibr (Healthy building roundtable), Aug 11, 2021. Virtual
- Maloo, N, Howard university, Kristina Hu, University of New Mexico, organized and speaker *Pre-Summit Pro -practice roundtable focus EDI*" NCARB, July 26ht. Virtual
- Maloo, N, Howard university, Kristina Hu, University of New Mexico, organized and speaker "*Pro-Practices session "NCARB Licensing Advisor Summit, Miami Aug 5- 07"*" 21
- Maloo, N, moderator for panel on Climate and Equity in BTES conference 2021, virtual, Auburn University.
- Maloo, N, Rod Henmi, Jeeya Kim, speaker in panel with, moderator Gina Fernandes "*Embrace Asian Unity in Diversity Our forum*", AIA/DC May 26, 2021
- Maloo, N, "*Environmental Justice panel*", HUC3, Howard University Climate change panel,(A21)

- Maloo, N. *“Open and nature guided, healthy buildings”*, Summer Academy Howard University (A’20)
- Maloo, N. *“Virtual Ethics”*, NCARB pro-practice roundtable, Innovative Teaching (A’20)
- Maloo, N. & Dahlia (2019-20) *“Strategic methods of Integrating Building science and Design?”*, published at the 108-annual meeting, ACSA Association of Collegiate Schools of Architecture (A’20)
- Maloo, N, Accepted and Presented *“Biophilic design for positive health outcomes “*, NOMA national conference, 1.5 HSW, speaker, Brooklyn, New York
- Maloo, N. & Onyango, J. , University of Notre Dame *“Analysis of impact of Window design detail on energy demand profile of typical hotel”* presented at the 4th International Sustainable Buildings Symposium (ISBS2019) Dallas/ Texas July 18-20
- Maloo, N , Accepted and Presented *“ Biophilic Architecture- for better outcomes “*, Howard Research week 2019, Education and Outreach.
- Maloo, N & Alfonzye Chisholm (Director, Office of Sustainability, Howard university) *“Sustainability from university to students”*, Architecture Exchange East taking place Nov. 7–9, 2018, at the Greater Richmond Convention Center in Richmond, Virginia.
- Maloo, N & Katherine Williams *“Architect’s roadmap for being developer”*, Architecture Exchange East taking place Nov. 7–9, 2018, at the Greater Richmond Convention Center in Richmond, Virginia
- Maloo, N, speaker" *Healing of patients with Nature's positivity and Social distraction "* 2018 HIBR Conference. - Health in Buildings for Today and Tomorrow, NIH(National Institute of Health) Making Connections July 17,2018
- Maloo, N &. Hazel Edwards, *“Resilient Women – The case of Howard University Graduates of Architecture and Planning “*Speaker at Design DC 2017, Oct 4 Washington DC.
- Maloo, N, Katherine Williams, Kathy Dixon, and Kathrine Richmond VA,” Vortex panel “Spring 2017.
- Maloo, N *“Shades of Green – Analysis of the Various Building Certifications/ Labels and the Value it creates Today”*, Speaker at NOMA 2017, Houston, Texas, Oct 12

- Maloo, N - Education & Outreach – *“The shades of Green - Analysis of the different building certifications/labels for green certifications, cost analysis (Oral Presentation), 2017, Research week, Howard university*
- Maloo, N, Speaker at Richmond VA, Architecture Exchange, “Vortex “panel 2016.
- Maloo, N, “Digital Architecture “Presenter and Speaker at NOMA conference, Philadelphia
Vortex panel 2014 and Digital Architecture paper, 2014, Philadelphia.
- Maloo, N, “Digital Architecture “Presenter and Speaker at NOMA conference, Philadelphia.
- Maloo, N, Vortex panel 2014 and Digital Architecture paper, 2014, Philadelphia.
- Maloo, N, “Green Economics” Presenter and speaker at AIA design DC conference, Washington Dc

RESEARCH GRANTS

- Maloo N, Pi, H2Edge, Hydrogen Education for Decarbonized Global economy Dr. Anqi, Dr. Tharkan, Chemical Engineering, EPRI, 25,500, Jan -July 2025, awarded
- Maloo N PI, “Clean Energy Justice “HBCU clean energy Education Prize, DOE partnership track, with Carlton Waterhouse, Dr. Burke Janelle, Dr. Amy and Drexel University, ongoing, funded, phase 3 1.7 million, submitted
- Maloo N, PI, “ Clean Energy Justice “HBCU clean energy Education Prize, partnership track, with Carlton Waterhouse, Dr. Burke Janelle, Dr. Amy and Drexel University, ongoing, funded, phase 2 400,000, 2023-2025, awarded
- Maloo N PI, HBCU clean energy Education Prize, partnership track, with Carlton Waterhouse, Dr. Burke Janelle, Dr. Amy and Drexel University, ongoing, funded, phase 1 100,000 2023-2025, awarded
- **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, selected.
- **Maloo N**, Energy Education Prize, Partnership Track, DOE, 2023, \$100,000, submitted
- Maloo N, Energy Education prize, Inspire track, DOE, 2023, \$50,000, submitted

- **Maloo N**, Pi, STAR (Student Training in Applied Research Program) Student research dissemination and Professional Development, 2023-24, with interdisciplinary co-pi and seven students. budget \$ 89, 892.
- **Maloo N**, co pi, Dr. Sen PI, “*Howard University Climate Resilience and Adaptation Center*”, submitted Biological and Environmental Research, Department of Energy, March 2023.one million dollars.
- **Maloo, N** , Gift from 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
- **Maloo, N(team member)**, Dr Marin C PI, Civil Engineering Howard University ,University of Kentucky(UK) and Southern Illinois University (SIU) “*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.](https://howardirise.wixsite.com/mseip-irise)
- Maloo N, Raised Scholarship for Summer Decarbonization class Money raised 23,000(2021), 17,500(2022), 27,000(2023)
- **Maloo, N. (co PI, Howard University)**; “*Million-year Materials (MYM)*”, submitted to NSF ERC , PI Mileva Radonjic, Oklahoma University, multi-university and interdisciplinary collaboration , OSU, UTA, UPITT, HU, UTTC, MU Project Bid \$2,000,000 Submitted Oct ,2020.
- **Maloo, N. (PI, Howard University)**; “*Water conservation and sustainability education at Howard university*”, submitted to DC water resources research institute (DCWRRI). Submitted Dec2,2019; Project Bid \$30,000.
- **Maloo, N.** Howard University;” *Environment, Equity and Design ARCH535*”, new course development, 2020 Buell Center Course Development Prize in Architecture, Climate Change and Society. Submitted Nov30, 2019
- **Maloo, N. (co PI. Howard University HU)**, Dr. Yazdani, H (PI, Civil Engineering HU, Dr. Bae, H (COPI, mechanical Engineering HU)& Dr. Edwards, H (co PI, Chair architecture dept, HU), Interdisciplinary team “*EAGER, DREAM -B : A smart and impervious polymer nanocomposite for enhanced habitability and structural health monitoring of buildings*” , submitted to the National Science Foundation (NSF) Submitted, 2019; Project Bid \$500,000.00

- **Maloo, N. (PI, Howard University) & Onyango, J. (CoPI, University of Notre Dame);** *“Strategies for Environmental Comfort that supports better health Outcomes for Dementia Patients”* submitted to the Academy of Architecture for Health Grants *Environment and Perception Tool Validation* Program. Submitted October 1st, 2018; Project Bid \$60,915.80
- Onyango, J. (PI, University of Notre Dame) & **Maloo, N. (CoPI, Howard University)** *“Environmental Comfort that supports better health Outcomes for Dementia Patients”*, submitted to the AIA Upjohn Initiative Grant Program. Submitted September 1st, 2018; Project Bid \$59,000.00

Maloo, N. (PI. Howard University) & Onyango, J. (CoPI, University of Notre Dame); *“Strategies for Environmental Comfort that supports better health Outcomes for Dementia Patients”*, to be submitted to the National Institute for Health (NIH) *National Institute for Aging Research Project (R01)* Program. To be Submitted November 1st, 2020; Project Bid \$300,000.00.

MENTORSHIP/CREATIVE WORKS

- Faculty AIAS Mentor, Bria Johnson, AIAS NE quadrant winner, national board, 2024
- Graphic Designer, Raeesah Amengapoke, “creative resilience: Carbon + Complexities. Exhibition
- COTE Competition AIA competed, faculty Mentor, Julian Newman, Kai Dixon
- Peer Review, BTES conference 2025
- Independent studies mentor, Kai Dixon, AI and built environment, performance , Spring 2025
- Thesis mentor, Roshel Grant wisley, “Amphibian design ”, , 2024
- Thesis mentor, Caden Norville, “ B- more equitable ”, Gold medalist , 2024
- Peer Reviewer, [ACSA112 Annual Meeting: Disrupters on the Edge](#), 2024
- Organized , first HBCU NCARB Scholars in Professional Practice, Aug 08-10, 2024
- Spring 2023 –Professional team NAAB team for Carnegie Melon, Professional designation
- Mentored two FAIA candidates for 2024, Leora Mivrish, Quinn Evans and Marci
- Mentored two students- Kai Howard, Life cycle analysis, (Gokul, NREL) Quaran Ahmad, Workforce wind energy (Jeremy Stefek), summer internship at NREL, Colorado
- Faculty advisor – Solar decathlon team, Design challenge 2023. – two teams, Team revives and Team retro education division and retro-housing division. The team made finals and won third place.
- Howard research month 2023 – mentor for Student Alyse Dees “Toxic and extreme weather effects for different Insulation Materials”
- Advisor for Thesis students – Bianca Briscoe and Dean Bailey, Howard March 2023

- Advisor for Independent study (3 credit) – Bianco Briscoe – Global sustainable strategies of NetZero carbon buildings
- Organized and moderated by **Maloo, N**, Special session focus ASCA2021 “Leading Climate Justice through Integrating Decarbonization Strategies into the Curriculum (BTES Session)”,
- Maloo, N , “Environmental Justice panel”, HUC3, Howard University Climate change panel,(A21)
- Maloo, N – peer reviewer for ACSA 110, San Diego Fall meeting 2021
- Maloo, N – peer Reviewer for paper BTES (Building Technology Educator society) conference 2021.
- Maloo, N -Faculty Advisor – COTE 2018 (Committee on the Environment, AIA), National Competition,
 - Jordan, M submitted his project for the national competition.
- Maloo, N, Accepted and Presented “Biophilic Architecture- for better outcomes “, Howard Research week 2019, Education and Outreach.
- Maloo, N, Faculty Advisor, and Judge Howard Research week 2019
 - Anisa Robertson and Christian Hudson (Third year student) *“The effect of biophilic design on the stress and performance of college Students”*, accepted and presented, Creative Arts and Design.
 - Justina Starred, (third Year Student) *“Mitigating the affordable Housing crisis through Shipping containers”*, Kingston Jamaica, Accepted and presented, “Creative Arts & Design.”
 - Maya Thornton, (Third Year Student) *“How Urban Density Affects Water Accessibility in Developing Countries”*, Accepted and presented, “Creative Arts & Design.”
 - Ayman Lawal, (Third Year Student) *“West African Biophilic Architecture”*, accepted and presented Environmental Sciences.
 - Khadija Calendar, (Third Year Student), *“The implementation of drainage design methods can help resolve the flooding issues in Trinidad and Tobago”* accepted and did not present, Environmental Sciences.
 - Alyssa Jenkins, (Third Year Student), *Architectural Solutions to Impure Water in Slums”* accepted and did not present, Environmental Sciences.
- Maloo, N , Faculty Advisor, Howard Research week 2018
 - Natasha Graves, (final year student) *“The New Studio: The Application of a Field Studio in a Disadvantaged Community”*, has been accepted for poster presentation in the category of “Social Sciences.”

- Lindsey Squire well, (3rd year, student) *“Effects of Environmental Racism: The Food Desert Dilemma”*, has been accepted for poster presentation in the category of “Creative Arts & Design.”
 - Abdullah Muhammad (3rd year, student) *“The Future of Energy Production”*, has been accepted for poster presentation in the category of “Business.”
 - Glenn Vaux iii, (3rd year, student) *“The Use of Art and Design to Positively Impact the Perceptions and Environment of Black Neighborhoods”*, has been accepted for poster presentation in the category of “Creative Arts & Design.”
- The energy audit of Mackey Building as part of our curriculum of sustainability in existing buildings is to help students get hands on experience. The project has been greatly enhanced by the DCSEU (DC sustainability energy utility), Howard University office of sustainability and Howard’s department of operations. Students have had a site visit, lectures, and detailed information on existing systems in the Mackey building.
 - Research of Non- Western Architecture – Art, Architecture, and construction Methods – Study in spring and Travel in Summer to South Asia
 - Integration of Sustainable strategies in design to give students experience for LEED STRATEGIES, ACTIVE and Net Zero strategies.
 - Integration of Selection of Structural Materials and Design Projects to apply learning of structures in practice.
 - NAAB – Accreditation 2017-18, HU- Worked in summer to help department (Melvin Mitchell and Dr. Edwards) create Mackey Floor plans, and supervised students to help with APR.
 - NAAB – site visit18, HU- Covered B5, B6 , B9 and help cover the D realms proof with Professional Practice course from 2014.
 - Faculty Guide, “Falling waters, Frank Lloyd House, West Virginia, visit – Accompanied and Guided 30 students (oct 2017, First year’s architects and Engineers) .
 - 2017 April Ms. Nea Maloo faculty/ junior had been the faculty advisor, speaker and judge representing the Architecture department.
 - “Huy Bui” (3rd year) – won the overall Research week, and in his category of creative design. He was awarded a certificate, research journal and a travel amount \$1000.00 to present his paper on future conference. Faculty advisor is encouraged to travel.

- "Jordan McCrae" (3 rd. year)– won in his category of "Business" and was awarded certificate and research journal.
- Ms. Maloo has also been invited to the center of basic sciences, by fellow judges to present on Sustainability. These are the list of Presentation and shows the variety of research in architecture and technology.

Student Poster Presentation, Maloo, N Faculty

- Christopher Taylor(student) - Physical Sciences & Engineering - *"The solution to feeding the world."*
 - Jordan McCrae (student)– Business – *"How Consumerism Caused (and Can End) the Plastic Plague"*
 - Keyera Howard (student)- Education & Outreach – *"There's more to 'cooking' than Ramen Noodles."*
 - Natasha Graves(student) - Social Sciences – *'The Power of Light in Design to Heal Our Internal Balance.*
 - Huy Bui (HU, student)-Creative Arts & Design – *"Alleviating City's Environmental Impacts and Revitalizing Its Urban Fabric Through Green Roofs – A Case Study in Ho Chi Minh, Vietnam"*
- Michael Schroeder(student) - Physical Sciences & Engineering - *"Bison Bikes"* (Oral Presentation)

INVITED JURY /JUDGE

- Invited Jury, COTE student international competition, 2024
- Invited Judge, The pave Educator award 2023
- Judge, JUMP into STEM program this year! You and Me, Carbon Free Challenge, National Renewable Energy Laboratory (NREL), 2023
- Invited UDC End of Semester Graduate Student Design Jury, UDC, Dec 2023.
- Fall 2023 – Invited to UMD, college park, md integrated studio, MARCH workshop reviews
- Spring 2023 – NAAB team for Carnegie Melon, Professional designation
- 2023-24 Appointed to the advisory board MSI STEM Research and Development Consortium (MSRDC)
- International Network of Networks for Well-Being in the Built Environment (IN2WIBE) Artificial Intelligence for Healthy Buildings Workshop invited members workshop, Nov 2-4, 2021

- International Network of Networks for Well-Being in the Built Environment (IN2WIBE) workshop, March 2021
- Maloo, N, invited to be in Center for active design, Fitwell, invited researcher.
- Maloo, N, peer reviewer for ACSA 110, San Diego, Fall meeting 2021.
- Maloo, N, peer Reviewer for paper BTES (Building Technology Educator society) conference 2021.
- Maloo, N, Peer Reviewer, Greenbuild conference 2021
- Invited participant at Buell Center's "*Green Reconstruction*" curricular workshop on 30 July 2020.

MEDIA PUBLISHED

- <https://www.wbur.org/news/2023/12/29/new-bedford-firehouse-redesign-howard-university>
- <https://www.envisionresilience.org/exhibitionsevents>.
- Student Podcast
https://open.spotify.com/episode/1at3TZxBvtgSPAkw4wFMo8?si=tG_MRIdkToigL_Z6TKrwyQ
- Howard University Architecture Lecturer Nea Maloo Receives Prestigious Course Development Award – Veranda Sky
- Published in , Research , 2020 Green Reconstruction Curricular Workshop (columbia.edu)
- Invited jury for Jason Pettigrew Memorial ARE Scholarship, 2019
- Invited guest for mid-review and Final Review at Notre Dame, South bend, School of Architecture, Indiana. April 2018 (Non -western Design Zanzibar, fourth year Design studio)
- Maloo, N -Judge 2019 Jason Pettigrew Memorial ARE Scholarship jury, Architects Foundation.
- Maloo, N Peer Reviewer, "*Intersection's symposium*", (ACSA + AIA)- AIA National conference 2019
- Published, March edition of the Dupont Circle Current (about 52,000 circulation), the solar competition. 2014
- Invited for Jury , third year and UDC,2017 , University District of Columbia, NAAB Reception.
- Invited for Jury – Graduate Thesis, Architecture Department, University of Maryland, 2014
- Published, the March edition of the Dupont Circle Current (about 52,000 circulation) 2014.

- Published in Howard Newsletter, 2014 www.howard.edu/newsroom/releases/2014/20140226StudentTeamWinsSolarDesignCompetition.html
- Published in Current Newspaper- http://issuu.com/currentnewspapers/docs/dp_03-05-2014, pg. 21
- Published in Maryland Public Television, on June 17. In Money and Business by Charles Robinson. <http://video.mpt.tv/video/1527942969>
- Published in Builder online.com April 2009
- “Architect Begins Building One of Metro Washington’s First Green Subdivisions” Posted on: April 30, 2009, 10:43:00 AM By: [Nigel F. Maynard](#)
- Eco-Estate in Silver Spring, Md, features energy-saving products and common-sense design. <http://www.builderonline.com/building-science/architect-begins-building-NMone-of-metro-washingtons-first-green-subdivisions.aspx>
- Published in Green building advisor.com “Nurturing Eco-Development in the D.C Area” Posted on May 1 by [Richard Defender](#) Published in Contractor Magazine, Oct 1, 2009, <http://contractormag.com/green-contracting/large-homes-energy-efficient-1009/index.html>
- Maloo, N, Presenter and Speaker in Design DC 2009 Topic “Green Economics”
- Architectural/Design Magazine, August 1994. Recognized for National level award winning Traditional Architecture project.

PROFESSIONAL DEVELOPMENT

“Meet the Presses: A Conversation with Academic Publishers” Princeton press, **Howard** undergraduate library, July 2024

“Imposter Syndrome”, Dr. Shareefah N. Al’Uqdah, Associate Professor of Counseling Psychology in the School of Education, Howard undergraduate library, , June 2024

SUBMITTED

The Role of Competitions- Teaching Affordable and high-performance Housing, AIA/Housing, 2025 ACSA/AIA Intersections Research Conference: New Housing Paradigms, Sept 2024

- Maloo N, Conceptualization, Writing-Review and Editing, “*Expanding Sustainability Assessments: Integrating Environmental, Social, and Resilience Metrics for Climate-Adapted Design*”, poster , Mahsa Torabi, Mira Malden, Lakshmi Osorio, Monica Huang, , Kate Simonen, Life Cycle Lab, University of Washington.
- Maloo N, Peer Reviewed, *Designing for Performance: Teaching Zero-Carbon Housing through Competitive Frameworks*, Building Technology Educators' Society Conference 2025, accepted.

- Maloo N, *Peer Reviewed Evaluating Embodied Carbon Tools for Sustainable Architectural Performance*, Building Technology Educators' Society Conference 2025, accepted
- Maloo N, co- author, peer reviewed *Empowering Architectural Performance through Biophilic Shading and Hands-On Teaching*, Daniel Sagan, Norwich University, Building Technology Educators' Society Conference 2025, accepted
- Maloo N, “ *Building futures* “, ACSA Creative award 2024, submitted
- Maloo N,co- Author, “ *Using Climate Justice as a Lens for Updating Building Benchmarks and Awards Programs*”, Adele Houghton, Biositu, Harvard TH Chan School of Public Health, ARCC-arch , university of Maryland , April 2025
- Maloo N, Teaching methodologies Zero Carbon design focusing on equity ,ACSA 113, Repair, Abstract not accepted
- Maloo N, Framing Environmental Justice (EJ), Intersection with Architecture and Landscape Architecture, Gabriel Díaz Montemayor, IACSA 113, abstract, not accepted
- JAE, journal Worliding submitted paper,2023.
- JAE, Fellows submitted application 2024.
- ACSA DEII award 2023, submitted.
- Graham Grants to Individuals cycle. Environmental Justice (EJ) Rating systems, 2023, not funded.
- HBCU Education Prize, 2023
- HBCU Partnership education prize “DDAW” submitted 2023.
- NCARB 2024, Professional Practice scholars, Howard University host submitted.
- ACSA 2024, 112 Annual conference, paper abstract submitted “Disrupters on Edge” .
- Maloo, N. & Onyango, J., O. (2019) “Nexus Between Building, Health and Better Education” - as poster at the *ARCC Architectural Research Center Conference (A’19)*, on May 29 -June 01st, 2019 in Toronto, Canada USA, Accepted .
- Maloo, N. & Onyango, J., O. (2019) “*Resilience in Tropical Construction to Natural Disasters, Haiti,-*” to as poster the *BTES (Building Technology Educators Society Conference)* on June 20-21st, 2019 in University of Massachusetts, Amherst, USA., Accepted.
- Maloo, N. & Dahlia (2019) “Explorations of Design Through the Making of Lemonade” , as poster at the *ARCC Architectural Research Center Conference (A’19)*, on May 29 -June 01st, 2019 in Toronto, Canada USA, Accepted.
- Onyango, J., O. & Maloo, N. (2018) “Analysis of impact of window design detail on energy demand profile of typical hotel room” to be presented at the *International Congress on Engineering and Architecture (ENAR– 2018)*, on November 14-16th, 2018 in Alayna, Turkey , Accepted.

SERVICES

- Appointed for Bison vision council, President the Bison Vision Council plays a vital role in our university's strategic planning process. The Council is tasked with ensuring that the President's strategic priorities are incorporated into the ultimate plan. This includes fostering development, supporting the implementation of these priorities, and ensuring that all vital information is thoroughly examined and integrated into the strategic framework. Your participation is crucial in making sure that our strategic initiatives are aligned with the President's vision for the future of Howard University, 2024-25
- Selected for Decanal Search committee, College of Engineering and Architecture, 2024-25
- Spring 2023 – NAAB team for Carnegie Mellon, Professional designation
- Appointed in the advisory board MSI STEM Research and Development Consortium (MSRDC)
- President- Elect, Building Technology Educator Society, BTES 2022-23
- AIADC, Committee in Education, Co- chair
- NCARB (national Council of Architectural Registration Board) Committee member for Test prep Exam questions ARE 5.0., 2021- 22
- Governor appointed, MD board of Real estate comission,2021-26
- Koru teacher at Student services and Divinity school
- Board of Director, Building Technology Educator Society, BTES 2021-22
- NCARB (national Council of Architectural Registration Board) Committee member for Test prep Exam questions ARE 5.0., 2020- 21
- Summer academy scholar 2020, Howard University
- AIAS Faculty Mentor, Howard University
- NCARB Licensing advisor, Howard University
- HU- teach reviewer, special cycle 2020.
- Peer reviewer, 109 ACSA spring meeting
- AIAS, Faculty Advisor, Howard University, Peer Reviewer, “Intersection’s symposium, (ACSA + AIA)- AIA National conference 2019
- HBCU Liaison, Board of National NOMA, NOMA 2018-19
- HEAG (Higher Education Advisory Group) for American Institute of Architects AIA, mid-Atlantic member ,2018-2019
- NCARB (national Council of Architectural Registration Board) Committee member for Exam questions ARE 5.0, 2018.
- Howard Research Week 2018, judge
- CETLA, Featured Teacher for 2018, Leading yoga for faculty for wellness and productivity.
- Boys Scout Merit Badge Counselor- Sustainability, Architecture and Energy
- AIAS faculty advisor- Help student body to affiliate with AIAS. Arranged for students to Attend the ARCH exchange Seminar for students, Richmond VA
- Trainer and Den Leader Cub Scouts Montgomery County, MD
- Women in Architecture panel, Howard University, DC
- Election Closing Judge, 2012 -2014, MD
- Voting operation Judge ,2014, MD

- Stroke and turn certified official, Potomac Valley Swimming, U.S.A Swimming.
- Architecture in Schools, DC Public Schools, Washington Architectural Foundation, Spring + Fall 2000
- Reading Buddies, Summer reading program, Wheaton library, Montgomery County Libraries
- Rotaract club, Washington, DC
- Chinmaya Mission of Washington DC, Volunteer
- Jain society of Washington DC, Volunteer