

# NEA MALOO

AIA NOMA NCARB LEED AP ICC

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## TEACHING EXPERIENCE

### 2013 – PRESENT

#### HOWARD UNIVERSITY, WASHINGTON DC

Assistant Professor /Adjunct Professor/ Design Studio Professor/ Researcher/AIAS Mentor

- ARCH 266 - Pre -Design
- ARCH 440 - Ecology and Architecture
- ARCH 501 - Structures 501
- ARCH 502 - Structures 502
- ARCH 521 - Intro to Environmental Systems 1
- ARCH 522 - Intro to Environmental Systems 2
- ARCH 150 - Design Communications 1
- ARCH 311 - Southeast Asia, Art, and Architecture
- ARCH 751 - Professional Practice
- ARCH 202 - Design 4
- ARCH 101 - Design 1
- ARCH 102 -Design 2
- ARCH 751 - Professional Practice
- ARCH003 - Architecture & Environment

### NEW COURSES DEVELOPED

- Arch 312- Sustainability of Traditional and Historic buildings in India
- Arch 440 -Ecology and Architecture

### 2010 – 2014

#### UNIVERSITY OF DISTRICT OF COLUMBIA, WASHINGTON DC

Adjunct Professor – Design and Theory, Construction Management

- AETC205C- Introduction to Computer Aided Design CADD
- AETC122C - Introduction to History of Architecture
- AETC101C - Architectural Drawing and Design1
- AETC102C- Architectural Drawing and Design 2
- AETC201C- Architectural Design 3
- AETC202C- Architectural Drawing and Design 4
- AETC 206C- CADD Doc/specification and Estimation
- AETC244C - Mechanical and Electrical Systems
- AETC 232C- Structural Design

- AETC 246C- Environmental Systems 2
- AETC 106C- Revit technology

**2010 – 2014**

**MONTGOMERY COLLEGE, ROCKVILLE MD**

Adjunct Professor – Graphics

- CT181 Introduction to Architectural Drawing,
- CT142 Introduction to Architectural Graphics and Presentation

## **EDUCATION**

**2019 -2020**

**ICC PLUMBING INSPECTOR**

**ICC RESIDENTIAL INSPECTOR**

**2015**

**NCARB CERTIFICATE HOLDER (81226)**

**MDOT/WMBE CERTIFICATION**

**YOGA ALLIANCE CERTIFICATION (200 RYT)**

**BIM CERTIFICATION**

**2005**

**REGISTERED ARCHITECT**

STATE OF MARYLAND (14591)

DISTRICT OF COLUMBIA (100836)

COMMONWEALTH OF VIRGINIA, US (81226)

**2003**

**LEED AP, USGBC**

**1998**

**MASTER OF ARCHITECTURE AND URBAN PLANNING, INIDA**

Thesis: “Waterfront Development and Planning in Urban Metropolis”, Anna University

**1996**

**BACHELOR OF ARCHITECTURE, INIDA**

Thesis: “MIOT- Ortho Trauma Hospital and Rehabilitation”, Anna University

## AWARDS

- Sho-Ping Chin Women's Leadership Summit Grant ,Women in Leadership Grant recipient, Minneapolis, 2019
- 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
- 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
- Won NASA sponsored competition for design ,1994
- Won Formica Interior Design Corporate competition ,1993
- Team member winning the Louis I. Khan Trophy for National Level Competition, India, 1993.

## PUBLISHED PAPER

- **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.** & 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(National Institute of Health) 2018

## ACCEPTED AND PRESENTED CONFERENCE

- **Maloo, N.** "Open and nature guided, healthy buildings" , ,*Summer Academy Howard University* (A'20),
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- **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 4<sup>th</sup> 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** “Architects roadmap for being developer”, Architecture Exchange East taking place Nov. 7–9, 2018, at the Greater Richmond Convention Center in Richmond, Virginia
- **Maloo, N,** “ *Healing of patients with Nature's positivity and Social distraction* ” has been accepted for 2018 HIBR Conference. - Health in Buildings for Today and Tomorrow, NIH(National Institute of Health) Making Connections July 17,2018
- **Maloo**, Speaker at Design DC 2017, Oct 4 Washington DC. “Resilient Women – The case of Howard University Graduates of Architecture and Planning “with Dr. Hazel Edwards. Invited for Jury and UDC, NAAB Reception.
- **Maloo**, Speaker at Design DC 2017, Oct 4 Washington DC. “Resilient Women – The case of Howard University Graduates of Architecture and Planning “with Dr. Hazel Edwards.
- **Maloo**, Speaker at NOMA 2017, Oct 12 Houston Texas– “Shades of Green – Analysis of the Various Building Certifications/ Labels and the Value it creates Today”.
- **Maloo, N** - Education & Outreach – “The shades of Green - Analysis of the different building certifications/labels for green certifications, cost analysis (Oral Presentation).
- **Maloo, N**, “ Digital Architecture “Presenter and Speaker at NOMA conference, Philadelphia Vortex panel 2014 and Digital Architecture paper, 2014, Philadelphia.

- **Maloo, N**, Katherine Williams, Kathy Dixon, and Kathrine Richmond VA,” Vortex panel “Spring 2017.
- **Maloo, N**, “ Digital Architecture “Presenter and Speaker at NOMA conference, Philadelphia.
- **Maloo, N**, Vortex panel 2014 and Digital Architecture paper, 2014, Philadelphia.
- **Maloo, N**, Speaker at Richmond VA, Architecture Exchange, “Vortex “panel 2016.

## ACCEPTED AND NOT PRESENTED CONFERENCE

- **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 01<sup>st</sup>, 2019 in Toronto, Canada USA
- **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 20-21<sup>th</sup>, 2019 in University of Massachusetts, Amherst, USA.
- **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 01<sup>st</sup>, 2019 in Toronto, Canada USA
- 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 14-16<sup>th</sup>, 2018 in Alanya, Turkey  
[\[http://www.enar2018.com/](http://www.enar2018.com/)

## RESEARCH GRANTS

### Research Grants:

- **Maloo, N(team member)**, Dr Marin C PI, Howard University ,University of Kentucky( UK) and Southern Illinois University (SIU) “Infrastructure Safety Monitoring “ , Civil Department, NSF convergence accelerator , awarded 2020.  
**Current.**
- **Maloo, N(co PI)**, Dr. Mosleh,M, PI, Howard University”, “Industry- research inclusion in STEM education (I-RISE), Department of Education, awarded 2019-2022,  
<https://howardirise.wixsite.com/mseip-irise>.

### Research Grants: (Submitted and not accepted.)

- **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 (DCWRRRI). 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.

### CREATIVE WORKS / INTELLECTUAL CONTRIBUTION

- **Maloo, N** -Faculty Advisor – COTE 2018 ( Committee on the Environment, AIA), National Competition,

- Jordan, M submitted his projected 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, Howard Research week 2019, also Judge.
  - 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 Vaulx 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 site visit, lectures, and detailed information on existing systems in 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 in 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 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- could not complete her poster.
- 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 + PUBLISHED

- Invited participant at Buell Center's "Green Reconstruction" curricular workshop on 30 July 2020.
- 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, 4th year Design studio)
- **Maloo, N** -Judge 2019 Jason Pettigrew Memorial ARE Scholarship jury, Architects Foundation
- **Maloo, N** Peer Reviewer, " Intersections symposium, ( ACSA + AIA)- AIA National conference 2019
- Invited for Jury , 3rd year and UDC , University District of Columbia, NAAB Reception.
- Invited for Jury – Graduate Thesis, Architecture Department, University of Maryland, 2014
- Published in Howard Newsletter, 2014
- Published in Current Newspaper- [http://issuu.com/currentnewspapers/docs/dp\\_03-05-2014](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

## SERVICES AT LARGE

- NCARB (national Council of Architectural Registration Board) Committee member for Test prep Exam questions ARE 5.0., 2020- 21
- Summer academy scholar 2020
- HU- teach reviewer, special cycle 2020
- Peer reviewer, 109 ACSA spring meeting.
- AIAS, Faculty Advisor, Howard University
- Peer Reviewer, " Intersections symposium, ( ACSA + AIA)- AIA National conference 2019

- HBCU Liaison for 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 student, Richmond VA
- Trainer and Den Leader Cub Scouts Montgomery County, MD
- Women in Architecture panel, Howard University
- Election Closing Judge – 2012 -2014
- Voting operation Judge -2014
- Stroke and Turn certified official, Potomac Valley Swimming.
- Architecture in Schools, DC Public Schools, Washington Architectural Foundation – Spring and Fall 2000
- Reading Buddies, Summer reading program, Wheaton library, Montgomery County Libraries
- Rotaract club, Washington, DC

## **MEMBERSHIPS**

- Life member, Building Technology Education Society
- Member of American Institute of Architects, DC chapter
- HEAG ( Higher Education Advisory Group, AIA) Members
- Member of HiBR ( Health in Building Roundtable, NIH, Maryland)
- Member of International Code Council
- Member of NOMA, National Organization of Minority Architects
- Member of NCARB, National council of Architectural registration Board
- Member of HIBR, Health in building Research, NIH
- Member of U.S. Yoga Institute, certified instructor
- Member of Washington Rotaract Club
- Member of NCARB and USGBC
- Member of Indian Institute of Architects.
- Member of Boys Scout of America
- Member of USA swimming, official
- IIYANUS member
- Member of CMWRC ( Chinmaya Mission Washington Regional Center), MD
- Member in JSMW, MD

## **LANGUAGES SPOKEN**

- English, Hindi, Tamil