

Vernelle A. A. Noel

Visiting Assistant Professor

Georgia Institute of Technology

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Education

- 2019 Ph.D. in Architecture: Design Computing.
Pennsylvania State University, University Park, PA., USA.
Department of Architecture. Stuckeman Fellow.
Committee: Benay Gürsoy Toykoç, José Pinto Duarte, Daniel Cardoso Llach.
- 2013 Master of Science in Architectural Studies (SMArchS): Design and Computation.
Massachusetts Institute of Technology, Cambridge, MA., USA.
School of Architecture and Planning.
Committee: George Stiny, Azra Aksamija, Larry Sass.
- 2007 Professional Bachelor of Architecture (B.Arch)
Howard University, Washington, DC., USA.
- 1999 Diploma in Civil Engineering
John S. Donaldson Technical Institute, Port of Spain, Trinidad.

Academic Appointments

Faculty Positions 2018-20 Visiting Assistant Professor in Architecture: Ventulett NEXT Generation Fellow
Georgia Institute of Technology
School of Architecture in the College of Design, Atlanta, US.

	2016-18	Instructor in Architecture, Penn State University, Department of Architecture, University Park, PA.
	2013-14	Visiting Fellow at the Singapore University of Technology & Design (SUTD) School of Architecture and Sustainable Design. Singapore.
Research Assistantships	2012-13	Massachusetts Institute of Technology, School of Architecture and Planning, Cambridge, MA. <ul style="list-style-type: none"> - Digital Design and Fabrication Group w/ Larry Sass; - Special Interest Group in Urban Settlements (SIGUS) w/ Reinhard Goethert.
Teaching Assistantships		Massachusetts Institute of Technology, School of Architecture and Planning, Cambridge, MA. <ul style="list-style-type: none"> - Program Manager for MIT Summer Research Program (MSRP); - MIT Program in Art, Culture + Technology (ACT) w/ Gediminas Urbonas.

Professional Experiences

VAAN Design Lab	2015-17	Head Designer & Director Commissioned Illustrator
IAAA	2010-11	Independent Design Consultant, Trinidad.
Burt Hill (Stantec)	2008-9	BIM Manager and Project Architect, Ahmedabad, India.
	2007-8	Graduate Architect, Washington, DC.
IAAA	2005-7	Architectural Designer, Washington, DC.
R.McGhee + Assoc.	2004-5	Intern Architect, Washington, DC.
BRW Partnership	1999-2001	Architectural Technician, Port of Spain, Trinidad.
Colin Laird Associates	1996-97	Architectural Technician, Port of Spain, Trinidad.

Research Experience

Refereed Journal Articles

- 2020 Vernelle A. A. Noel. "Situated Computations: Bridging Craft and Computation in the Trinidad and Tobago Carnival," *DEARQ Journal of Architecture* (forthcoming July 2020)
- 2017 Vernelle A. A. Noel. "Digitally Displaying and Interacting with Historic Artifacts of Spatial, Temporal, Corporeal, and Kinetic dimensions," *Studies in Digital Heritage* (December 2017): 251-268. <https://doi.org/10.14434/sdh.v1i2.23277>
- 2015 Vernelle A. A. Noel. "The Bailey-Derek Grammar: Recording the Craft of Wire-Bending in the Trinidad Carnival," *Leonardo* 48, no.4 (August 2015): 357-365. https://doi.org/10.1162/LEON_a_01089

Conference Proceedings

Papers

- 2019 Vernelle A. A. Noel. "Reviving a Craft through Architecture: Computational Making of a lightweight pavilion based on wire-bending techniques," in *Form and Force*, Proceedings of the International Association for Shell and Spatial Structures Annual Symposium 2019 – Structural Membranes 2019 – IASS, Barcelona, Spain. (October 2019).
- 2019 Vernelle A. A. Noel. "Design Computation and Restoring Craftsmanship: The Bailey-Derek Grammar in Wire-Bending," in *Hello Culture!* Proceedings of Computer Aided Architectural Design Futures Conference – CAAD Futures, (Daejeon, Korea. (June 2019): 950-969.
- 2017 Vernelle A. A. Noel. "From Costuming and Dancing Sculptures to Architecture: The Corporeal and Computational in Design and Fabrication of Lightweight Mobile Structures," in *Future Trajectories of Computation in Design*. Proceedings of Computer Aided Architectural Design Futures Conference – CAAD Futures, Istanbul, Turkey. (June 2017): 22-41.
- 2016 Vernelle A. A. Noel. "Crafting as Inquiry into Computation: Exploring wire-bending in traditional practice and design education," in *Complexity & Simplicity*. Proceedings of the 34th Education and research in Computer Aided Architectural Design in Europe Conference (eCAADe), University of Oulu, Oulu, Finland, (August 2016): 311-320.
- 2015 Vernelle A. A. Noel. "The Bailey-Derek Grammar: Recording the Craft of Wire-Bending in the Trinidad Carnival," in *ACM SIGGRAPH*, Los Angeles, CA. (August 2015).

- 2013 Lujie Chen, Lawrence Sass, Woong Ki Sung, and Vernelle Noel "Surface skeleton generation based on 360-degree profile scan", Proc. SPIE 8790, Optics for Arts, Architecture, and Archaeology IV (May 2013).

Research Projects and Roles

- PI 2019 - "Situated Computations". Georgia Institute of Technology, School of Architecture.
- PI 2018 - "Architectural Structures and Multiple Modernities". Georgia Institute of Technology, School of Architecture.
- PI 2017-18 Vernelle A. A. Noel and R. Allen Kimel. "Material Matters: A model for the design and construction of low-cost, high-performance energy-efficient shelters in Burkina Faso, West Africa." Department of Materials Science and Engineering, Penn State, PA. (Apr. 2017-Dec. 2018).
- Research Assistant 2016 Vernelle A. A. Noel and Felecia A. Davis. "Quantified Walk: Design of a Prototype for Parkinson's Gait Monitoring." Department of Architecture & Mechanical Engineering, Penn State, PA. (Summer 2016).
- PI 2015-16 Vernelle A. A. Noel. "Dancing Sculptures: Preservation and Development of Design in Trinidad Carnival." Department of Architecture, Penn State, PA. (Jan 2015 – Dec 2016).
- 2015 Vernelle A. A. Noel. "(Re)conceptualizing Wire-bending in Design." Department of Architecture, Penn State, PA. (Jan – Dec 2015).
- Graduate Research Assistant Sp. 2012 "Digital Fabrication & Prototyping." PI: Larry Sass. Department of Architecture, MIT.
- Summer 2012 "Very Large-Scale Prototyping" PI: Larry Sass and Chen Lujie. Department of Architecture, MIT and SUTD.

Manuscripts in Submission

- 2020 Vernelle A. A. Noel. "Situated Computations: Fostering relationships between Craft, Making, and abstract computational systems" in *Dearquitectura (DEARQ)*. *Accepted*.

Manuscripts in Preparation

- 2020 Vernelle A. A. Noel. "Active Bending Structures and Multiple Modernities."
- Vernelle A. A. Noel. "Computation and Craft: Pedagogy in Computational Design and Architecture."

Other Publications

- Course-books
- 2019 Vernelle A. A. Noel, ed. *Computation and Craft: Wire-bending Theory and Applications*. Georgia Tech. School of Architecture, Spring 2019 (forthcoming).
- 2017 Vernelle A. A. Noel, ed. *Fall 2016 Design Studio*. Penn State School of Architecture, 2016.
- 2015 Vernelle A. A. Noel et al., *Exploring Algorithmic Tectonics: A Course on Creative Computing in Architecture and Design* (University Park: SCDC Press, 2015).
- Catalogs
- 2014 Vernelle A. A. Noel, ed. *MIT-SUTD Graduate Fellow Program 2013-2014*. Massachusetts Institute of Technology, Spring 2014.
- Online Essays
- 2011 Vernelle A. A. Noel. "Caribbean architecture without Caribbean architects," in *Architecture Caribbean*. (2011).
- 2010 Vernelle A. A. Noel. "The Adalaj Vav in Ahmedabad - Treasure of Delight and Detail," in *Architecture Caribbean*. (2010).
- 2010 Vernelle A. A. Noel. "Architecture, Success, and the 10,000-hour tenet," in *Architecture Caribbean*. (2010).
- Web-published Interviews
- 2010 Vernelle A. A. Noel. "Interview with Dutch Architect, Ralf Pasel," in *Architecture Caribbean*. (May 2010).
- 2010 Vernelle A. A. Noel. "Interview with Portuguese Architects, Vasco Correia & Patricia Sousa (Camarim)," in *Architecture Caribbean*. (May 2010).
- 2010 Vernelle A. A. Noel. "Interview with Japanese Architect, Daigo Ishii," in *Architecture Caribbean*. (April 2010).
- 2010 Vernelle A. A. Noel. "Interview with Trinidadian Architect, Rudylynn De Four Roberts," in *Architecture Caribbean*. (July 2010).

- 2009 Vernelle A. A. Noel. "Interview with Brazilian Architect, Arthur Casas," in *Architecture Caribbean*. (November 2009).
- 2009 Vernelle A. A. Noel. "Interview with Trinidadian artist, Jackie Hinkson," in *Architecture Caribbean*. (September 2009).
- 2009 Vernelle A. A. Noel. "Interview with UK Graphic Artist, Nik Ainley," in *Architecture Caribbean*. (September 2009).

Conference Activity

Presentations

- 2019 Vernelle A. A. Noel. "Beyond the Computational: The Social in Wire-Bending in Trinidad & Tobago," in *Innovations, Interruptions, Regenerations in 4S: Society for the Social Studies of Science*, New Orleans, LA. (September 2019).
- 2019 Vernelle A. A. Noel. "Here's Looking at you Craft," in *Humanistic Perspectives at Technological Universities: A Symposium*. Georgia Institute of Technology, GA. (April 2019).
- 2018 Vernelle A. A. Noel et. al. "Sense-ation Making Mashup," in *a2ru Emerging Creatives Summit*. Baton Rouge, LA. (February 2018).
- 2017 Vernelle A. A. Noel and Danielle Oprean. "Digital Design and Spatial Comprehension: The visual, corporeal, and tactile in embodied interaction," in *Thinking Within Symposium*. Penn State, PA. (December 2017).
- 2017 Vernelle A. A. Noel. "Craft, Computation, and Technology: The Practice of Wire-Bending in Trinidad & Tobago," in *STS (In)Sensibilities in 4S: Society for the Social Studies of Science*, Boston, MA. (September 2017).
- 2017 Vernelle A. A. Noel. "New Technologies in the Preservation and Development of Design in the Trinidad Carnival," in *CHNT21: 21st Conference on Cultural Heritage and New Technologies*, Vienna, Austria. (November 2016).
- 2017 Vernelle A. A. Noel. "A Multiple-Making approach to inquiry in traditional craft practices: Wire-bending in Trinidad & Tobago," in *AERA: American Educational Research Association*, San Antonio, Texas. (April 2017).
- 2016 Vernelle A. A. Noel. "Crafting as Inquiry into Computation: Exploring wire-bending in traditional practice and design education," in *Education and research in Computer Aided Architectural Design in Europe Conference (eCAADe)*, Oulu, Finland. (August 2016).

Panels Organized

- 2019 "No paper, No pencil, No tape measure: Situated Craft Practices, Computation, and Automation" in *Innovations, Interruptions, Regenerations in 4S: Society for the Social Studies of Science*, New Orleans, LA. (September 2019).

Poster Sessions

- 2019 Vernelle A. A. Noel, Niloofar Nikookar, Jamieson Pye, and Phuong ‘Karen’ Tran. “The Infinite Line: Modular Active-Bending Pavilion” in *IASS and Structural Membranes Joint International Conference*, Barcelona, Spain. (October 2019).
- 2018 Vernelle A. A. Noel. “The Role of Computation in Reinterpreting the Traditional craft practice of Wire-Bending: Evaluating the Bailey-Derek Grammar,” in *SCDC Flash Symposium*, Penn. State, State College, PA. (March 2018).
- 2017 Vernelle A. A. Noel, and R. Allen Kimel. “Material Matters: A model for the design and construction of low-cost, high-performance energy-efficient dwellings in Burkina Faso, West Africa,” in *Materials Day 2017*, Penn. State, State College, PA. (October 2017).
- 2016 Vernelle A. A. Noel. “Immersive Reality, Preservation, and Development: Traditional Dancing Sculptures in the Trinidad Carnival,” in *Immersive Reality Symposium*, Penn. State, State College, PA. (November 2016).
- Vernelle A. A. Noel and Nasim Motalebi. “Quantified Walk: Design of a Stretch Knit Legging Prototype for Parkinson’s Gait Monitoring,” in *Penn State Center for Health Organization Transformation (CHOT)*, Penn. State, State College, PA. (September 2016).
- Vernelle A. A. Noel. “(Re)conceptualizing craft and technology for Design,” in *SCDC Flash Symposium*, Penn. State, State College, PA. (April 2016).

Invited

- 2015 2015 NSF Maker Summit, hosted by the American Society for Engineering Education (ASEE), and the National Science Foundation (NSF), Washington, DC.

Exhibitions

Curated and designed

- 2020 “Computational Design: Craft, Making, and Repair.” Stubbins Gallery, Georgia Institute of Technology. March 25-April 25 2020 – cancelled due to COVID.

Work presented

- 2019 “Form and Force,” IASS and Structural Membranes Joint International Conference, Crowne Plaza Barcelona Fira Center. October 6-9. On display: “The Infinite Line: Modular Active-Bending Pavilion.”
- 2017 PSU 3D Printing Showcase, Rouse Gallery, Stuckeman Family Building, Penn State, University Park, PA., Nov. 15. On Display: “Computational wire-bending artifacts.”

- 2016 Immersive Reality Symposium, HUB-Robeson Center, Penn State, University Park, PA., October 16. On Display: “Immersive Reality, Preservation, and Development: Traditional Dancing Sculptures in the Trinidad Carnival.”

Grants + Fellowships

- 2018-20 Ventulett NEXT Generation Fellowship, College of Design: School of Architecture, Georgia Institute of Technology.
- 2018 Global Programs Graduate Student Travel Grant, Penn State University. \$750.
- 2017 2018 Graduate Women In Science (GWIS) Fellowship. “Evaluating the role of computational approaches to craft in reviving knowledge in the dying craft of wire-bending and spurring interest in STEM.” \$8,020 (not awarded).
- 2017 Graduate Student International Research Award. “Computational Crafting: The Bailey-Derek Grammar and wire-bending in Trinidad & Tobago” \$5,000 (not awarded).
- 2017 Center for Craft Materials-Based Research Grant. “Crafting Materials through Science: Architecture at the Intersection of Design Computation and Materials Science.” Role: PI. Collaborators: R. Allen Kimel, and Benay Gursoy Toykoc. \$14,445 (not awarded).
- 2016 “Material Matters: A model for the design and construction of low-cost, high-performance energy-efficient shelters in Burkina Faso, West Africa” w/ Robert A. Kimel. MRI Humanitarian Materials Initiative Award. \$10,000.
- 2015 “Dancing Sculptures: Exploring the Synthesis of Craft, Computation & Technology in Design and Fabrication.” National Institute of Higher Education, Research, Science and Technology (NIHERST) Trinidad & Tobago, Prime Minister's Awards for Scientific Ingenuity. \$1,150.
- 2015 “Architecture [FOR] + [OF/ FROM] + [BY] the Body: A Photojournalism project on design and dancing sculptures in the Trinidad Carnival.” Penn. State University, Pohland Graduate Student Fellowship Award. \$2,500.
- 2015 “TraDigital Craft: Exploring the integration of computation and digital in traditional craft practices.” Penn. State University, SCDC Student Research Grant Award. \$572.
- 2014 “Cultural Design Practices, Computation, and Design Education: Wire Bending in Trinidad & Tobago.” Africana Research Center Award. Penn State University. \$2,000.

- 2014 “Trinidad Carnival: Improving Design through Computation and Digital Technology.” Government of the Republic of Trinidad & Tobago, Ideas2Innovation Award (i2i). \$15,000.
- 2014-17 Stuckeman Center for Design Computing (SCDC) Fellowship for Ph.D. in Design Computing, Department of Architecture, Penn State University.
- 2012 “Dancing Sculptures: Design and engineering practices in Trinidadian wire bending.” Rosalia Ennis Research Award. MIT Department of Architecture. \$1,250.
- 2011-13 Graduate Fellowship Award for SMArchS in Design and Computation, School of Architecture & Planning, Massachusetts Institute of Technology

Invited Talks

- 2019 “Design Computation + Craft + Carnival.” Invited by Andrew Chin. Florida Agricultural and Mechanical University (FAMU), School of Architecture & Engineering Technology.
- 2018 “Wire-bending & Design in the Trinidad Carnival.” Invited by Scott Marble, Julie Kim, Athanassios Economou. Georgia Tech Institute (GATECH) FOCUS Fellow, School of Architecture
- 2017 “Computational Design + Craft + Culture.” Howard University, Department of Architecture.
- 2016 “Computation, Wire-Bending, and Craft”: Made in the Machine course. Invited by Arlene Ducao. New York University (NYU),
- 2015 “The Power of Making: Craft, Computation, and Carnival.” TEDx Talk, Port of Spain, Trinidad.
- 2015 “Design and Computation in Trinidad Carnival,” Carnegie Mellon University, School of Architecture, Pittsburgh, PA. Invited by Daniel Cardoso Llach.
- 2014 “Design, Research, Architecture & Carnival,” co-rd Limited, Port of Spain, Trinidad.
- 2014 “Today’s Architect,” Trinity College East, Trincity, Trinidad.
- 2017 “Art and Life: The Power of Craft.” Invited by Christopher Parks Staley. Penn State, School of Visual Arts.

- 2017 “Material Matters: A model for the design and construction of low-cost, high-performance energy-efficient dwellings in Burkina Faso, West Africa.” 2iE West African Speakers Series, Penn State.
- 2017 “Reinterpreting Cultural Design Practices through Technology: Wire-bending and Design in the Trinidad Carnival.” Africana Research Center, Penn State University.
- 2016 “Worldmaking and Craft”: Inquiry into Design Computing course. Invited by José Pinto Duarte, Department of Architecture, Penn State University.

Workshops conducted

- 2017 Bishops Anstey Trinity College East (BATCE), Trincity, Trinidad & Tobago. “Bend It!” Two-day Workshop. Dec 21-22.
- 2017 The Pennsylvania State University, University Park, PA. “Computational Approaches to Wire-Bending.” Two-day Workshop. Dec 9-10.
- 2017 The Pennsylvania State University, University Park, PA. “Light It Up!” Four-day Workshop. Jan 21-22, 28-29. Co-organizers: Benay Gursoy Toykoc, and Julio Cesar Diarte.
- 2014 The Pennsylvania State University, University Park, PA. “From Dark Knight to Design Computation: Tools to Technologies.” Two-day Workshop.
- 2014 Singapore University of Technology and Design (SUTD), Singapore. “Parametric modeling in Grasshopper.”
- 2013 SUTD, Singapore. “3D Modelling in Rhino.”

Teaching Experience

Courses Taught

Visiting Assistant Professor GATech	Summer 2020	- Pre-College Architecture Summer Program
	Sp. 2020	- Senior Design Studio (ARCH 4855) (UG) - Computation and Repair in Design (ARCH 8833/4433) (G/UG).

	Fall 2019	- Sophomore Design Studio (ARCH 2854) (UG) w/ Lars Spuybroek. - Introduction to Design and the Built Environment (ARCH 1060) (UG). - Independent Study on Active-Bending Structures (ARCH 8903) (G).
	Sp. 2019	- Sophomore Design Studio (ARCH 2854) (UG) w/ Keith Kaseman. - Computation and Craft: Wire-bending Theory and Applications (ARCH 8833/4433) (G/UG).
	Fall 2018	- Freshman Design Studio (ARCH 1854) (UG) w/ Michelle Rinehart. - Introduction to Design and the Built Environment (ARCH 1060) (UG).
Instructor PSU	2016-18	Freshman Design Studio (ARCH 121; ARCH 122) (UG) w/ Cathy Braasch.
Visiting Fellow SUTD	Sp. 2014	Digital Design & Fabrication (UG) w/ Stylianos Dritsas and Bige Tunçer.
	IAP 2014	Computational Construction (UG) w/ Skylar Tibbits.
	Fall 2013	Introduction to Design Computation (UG) w/ Sawako Kaijima.
Teaching Assistant MIT	Sp. 2013	Introduction to Visual Arts (UG) w/ Gediminas Urbonas.

Advising

Independent Studio	2020	Amy Stone, “The Role of Architecture in Pandemics” D+R Studio. Georgia Institute of Technology, School of Architecture. Master of Architecture. Atlanta, GA.
Thesis Committee Member		Niloofar Nikookar, “Design through Digital Making: A Human-System Collaboration Framework.” Georgia Institute of Technology, School of Architecture. Master of Science in Architecture. Atlanta, GA.
Independent Study		Niloofar Nikookar. Master of Science in Advanced Production. “Torsion in Bending-Active Systems” in Divergence in Architectural Research Symposium. March 5-8, 2020, School of Architecture, Georgia Tech. Institute.
Design Competition	2019	2019 Tongji International Construction Festival: Collaborative Design + Construction of a Plastic Pavilion. June 6-9, 2019, Shanghai, China.
Research Posters		Niloofar Nikookar. Master of Science in Advanced Production. School of Architecture, Georgia Tech. Institute. Title of poster: “Wire-Bending Techniques in Lightweight Structures: Manufacture and Analysis.”

- 2019 Phuong ‘Karen’ Tran and Jamieson Pye. Bachelor of Science in Architecture, Georgia Tech. Institute. Title of poster: “Computational Crafting of Materials for Lightweight Structures.”

Professional Service

Disciplinary Service

- 2020 Organizer with Beki Grinter, *Crafts as a Domain for Research: Creating a Crafts Research Community at Georgia Tech*, Institute of People and Technology (iPaT), Feb. 6, Atlanta, GA.
- Selection Committee, *Atlanta Children Eternal Flame Sculpture*. City of Atlanta - Mayor’s Office of Cultural Affairs.
- 2019 Session Chair, *Performative Structures*, Simulation for Architecture and Urban Design (SimAUD) 2019
- 2019 Panelist, Equity in Architecture Forum. Georgia Institute of Technology.
- 2019 Judge, 2019 MOOG Hackathon, Georgia Institute of Technology, Atlanta, GA.
- 2017 Volunteer, MIT Alumni Angels of New York, NY.
- 2016 NSF and ASEE 2016 Maker Summit Invitee and Presenter, Washington, DC.

Reviewing Roles

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| Journal peer review | 2020 International Journal of Architectural Computing (IJAC) |
| | 2017 Leonardo 2017 |
| | 2017 Occasional Paper Series |
| | 2016 SIGGRAPH 2016 Art Papers |
| Primary Reviewer | 2016 National Science Foundation (NSF) Proposals on Innovative Technology Experiences for Students and Teachers (ITEST) |
| Conference peer review | 2019 Session Chair 4S 2019 |
| | 2016 IEEE VIS Arts Program |

Departmental/ University Service

- Georgia Tech 2019 BS Architecture and Computing Degree Task Force, School of Architecture
Graduate Admissions Committee 2019, School of Architecture
- Penn State 2017-18 GRID Symposium 2017, 2018, College of Arts & Architecture, University Park, PA.
2016 Moderator, SCDC Open House 2016
2016-18 Officer, Graduate Researchers & Innovative Designers (GRID)
2015 Faculty Search Committee

Invited Reviews

- 2020 Penn State University, School of Architecture, PA. Final Review for First Year Studio, invited by Cathy Braasch, April 24.
- 2019 Carnegie Mellon University, School of Architecture, Pittsburgh, PA. Final Review for Masters in Design Computation Pre-Thesis presentations, invited by Daniel Cardoso Llach, Dec 12.
Clemson University, School of Architecture, South Carolina. First Project Final Review for Sophomore Studio, invited by Joseph Choma, Mar 8.
- 2018 Carnegie Mellon University, School of Architecture, Pittsburgh, PA. Final Review for Masters in Design Computation Pre-Thesis presentations, invited by Daniel Cardoso Llach, May 10.
- 2018 New York University, Tandon School of Engineering, NY. Final Review for the “Ideation & Prototyping Studio” invited by Arlene Ducao, May 4.
Georgia Institute of Technology, School of Architecture, GA. Final Review for the “Concrete Change: Structure, Adaptation, and Urbanism in the Near and Not-So-Near Futures, D+R STUDIO” and “Multi-Performance Thickening Studio.” Invited by Scott Marble and Julie Kim, Apr 20 - 21.
- Penn State 2014-15 Department of Architecture, Final Review for M.Arch Studio, invited by Rebecca Henn.
2015 Department of Architecture, Concept Review for M.Arch Studio, invited by Ute Poerschke.

	2014	Department of Architecture, Final Review for Freshman Studio, invited by Nida Rehman.
		Department of Architecture, Final Review for Freshman Studio, invited by Cathy Braasch.
Singapore University (SUTD)	2013-14	Architecture & Sustainable Design, Final Review for Freshman Studio, invited by Thomas Schroepfer.

Technical Skills

Programming/ scripting languages and software applications Processing, RhinoPython, Java, Arduino, Unity3D, RobotStudio, HAL, NVIVO.

CAD/CAM Technologies & Fabrication AutoCAD, Rhinoceros 3D, Autodesk Revit, Grasshopper, Firefly, AlphaCAM.
 CNC wire-bending, 3D printing, CNC Milling & Routing, Laser Cutting, Traditional Wire-Bending, Electronics production, Robotics, Water-jet cutting, 3D scanning.

Podcast Production Audio editing and mixing (Audacity); audio production – recording, editing, publishing; sound editing; guest research and interviews; and distribution.

Awards + Honors

- 2007 School of Architecture & Planning Award, Howard University.
- 2005 Building Technology Award, Howard University.
- 2003-07 Capstone Scholarship, Howard University.

Membership in professional and learned societies

- 2018- American Anthropological Association (AAA)
- 2018- The Design Research Society (DRS)
- 2017- Graduate Women In Science (GWIS)
- 2017- Caribbean Studies Association (CSA)
- 2016- The Latin American Studies Association (LASA)
- 2016- The American Educational Research Association (AERA)
- 2016- The Society for Social Studies of Science (4S)

- 2016-18 The American Craft Council
- 2015- Association for Computing Machinery (ACM)
- 2015- The International Association for Shell and Spatial Structures (IASS)
- 2013- Association for Computer Aided Design in Architecture (ACADIA)
- 2013- The Design Society
- 2011-2015 Trinidad & Tobago Institute of Architects (TTIA)
- 2007-12 American Institute of Architects (AIA)
- 2010-12 Trinidad & Tobago Society of Planners (TTSP)

Professional Development

- 2019 Science, Technology and Society: Core Seminar by Robert Rosenberger
- 2019 Shape Machine Symposium
- 2019 STS Studio by Nassim Parvin
- 2019 Symposium on Simulation in Architecture and Urban Design (SimAUD 2019)
- 2019 Implicit Bias Workshop for Faculty Development

Other Interests

Podcasting; Art + Illustrations; Martial Arts – Taekwondo (Black Belt), Jujitsu, Judo, Kali, Aikido; Photography; Culinary enthusiast.