

TRAN DUONG NGUYEN

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[https://www.researchgate.net/profile/Tran-Duong-Nguyen/research/](https://www.researchgate.net/profile/Tran-Duong-Nguyen/research)

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

May 2022-Present

Doctorate in Building Construction

Kennesaw State University, Marietta, Georgia, USA

May 2020-May 2022

Master of Science in Construction Management

National University of Civil Engineering, Hanoi, Vietnam

Aug.2002-May 2007

Bachelor of Arts in Architecture and Planning Design

EXPERIENCE

Georgia Institute of Technology, School of Building Construction, Smart BEES lab

Aug.2023-Present

Teaching assistant, BC-6050 Building Information Modeling course – Spring 2024

Teaching assistant, BC-6550 Design & Construction Processes for Integrated Services course – Fall 2023, 2024

- Teaching the assigned curriculums in class sessions
- Assist lecturers create course materials, lectures, assignments, and assessments.
- Maintaining records on students' progress and grades
- Evaluating students' assignments, tests, and other activities
- Assisting students during office hours, addressing questions, and clarifying course content

Georgia Institute of Technology, School of Industrial and Systems Engineering, PI Lab

May 2022-Aug.2023

Research assistant, Physical Internet Center – Spring 2023

Research assistant, Physical Internet Center – Fall 2022

- Providing professional-level support related to research.
- Applying research methodologies and data analysis
- Conducting research papers and supporting supervisor's projects
- Participated in a Lifecycle Environmental Impact Assessment of Distributed Construction

Kennesaw State University, Department of Construction Management

May 2020-May 2022

Teaching assistant, CM-4510 Construction Scheduling course – Spring 2022

Teaching assistant, CM-4510 Construction Scheduling course – Fall 2021

Teaching assistant, CM-4190 Sustainable Operation & Maintenance course – Spring 2021

Student assistant, CM-2000 Construction Graphics course – Fall 2020

- Teach the assigned curriculum in-class sessions.
- Assist in grading assignments, exams, and other assessments.
- Provide constructive feedback to students to support their academic development.
- Collaborate with faculty in evaluating student performance.
- Maintain records on students' progress and grades.
- Evaluate students' assignments, tests, and other assessments.

Van Lang Architecture Company Ltd, Hanoi, Vietnam

Aug.2017-May 2020

Senior Architect & Design Manager

- Assist in architectural design and development for preliminary and final phases.
- Lead and manage architectural projects from concept through completion.
- Communicate effectively with clients, address concerns, and ensure client satisfaction.
- Review and critique design proposals to ensure alignment with project objectives.
- Contribute to business development initiatives, including proposal writing and client presentations.
- Supervise and mentor a team of architects and designers.

Inros Lackner Vietnam LLC, Hanoi, Vietnam

Feb.2015-May 2017

Senior Architect & Project Manager

- Prepare project reports, drawings, and presentations for master plan management.
- Provide innovative design solutions that align with client objectives and project requirements.
- Collaborate with clients, stakeholders, and cross-functional teams to ensure project success.
- Provide guidance on design concepts, technical details, and project execution.

- Some key projects are included: Sheraton Ha Long Bay Hotel, Bach Ma Spiritual and Eco-tourism destination, Rach Vem Eco-tourism and garden house area, Residences 90, Long Hau Ecology new town, Hanoi Biotechnology Park Master plan.

Nippon Koei Vietnam LLC, Hanoi, Vietnam

July 2013- Feb.2015

Project Architect & Project Manager Assistant

- Assist in architectural design and development for preliminary and final phases of the Ca Pass Road Tunnel Project at National Highway No.1A.
- Responsible for submitting and approving documents to the local authorities and the client.
- Cooperate with technical assistance, road and bridge engineers, transportation specialist.
- Assist the project manager in ensuring that the design standards and quality were always maintained.

Hanoi Urban Architecture Consulting JSC, Hanoi, Vietnam

Oct.2011-July 2013

Senior Architect & Project Manager

- Cooperate with representatives of government authorities, international and local organizations.
- Develop and manage project timelines, budgets, and resources.
- Ensure adherence to project schedules and deliverables.
- Participate in the 1/500 Master planning and Architectural design for B/D and D/D phases.
- Some key projects are included: New 300 hectares City in Van Phong Bay, Khuong Dinh Functional Urban Area, Master planning of the Hanoi Enlargement Area.

WATG Inc., Seattle, WA, USA

Mar.2011-Oct.2011

Architect Trainee

- Assist in architectural design and development for preliminary and final phases.
- Work collaboratively with the design team to translate ideas into visual representations.
- Develop detailed drawings, 3D models, and renderings to communicate design intent.
- Some key projects are included: Cam Ranh Ecological Resort, 35 ha of Long Beach Ecological Five Stars Resort Hotel & Villas, a Hi-rise complex building named Eurowindows Multi Complex, Poly Hai Ling Resorts-Yang Jiang Island, Guangdong, China, Taj Hotel, Mumbai, India

Van Lang Architecture Company Ltd, Hanoi, Vietnam

June 2006-Mar.2011

Architect & Designer

- Assist in architectural design and development for preliminary and final phases.
- Some key projects are included: Nha Trang mixed-use building, Film Studio for Vietnam Film Corporation, Residential interiors and housing, Shopping Town in Vinpearl Land.

Hanoi Urban Architecture Consulting JSC, Hanoi, Vietnam

June 2005-June 2006

Architect Intern

- Conduct a survey and research on the historic neighborhood of 200,000 inhabitants.
- Illustrate 3D-design and exhibited it at the National convention center.
- Co-author of the Monument of Vietnam Veterans for Hanoi University of Technology

PUBLISHED JOURNAL/ CONFERENCE PAPERS

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| S. Adhikari, J. Collins, G. Loreto & TD Nguyen, "The use of parametric modeling to enhance the understanding of concrete formwork structures," American Society for Engineering Education (ASEE), 2021. | 2021 |
| TD Nguyen & S. Adhikari, "Perceptions of the students' understanding of BIM with Sustainable Design and Construction," American Society for Engineering Education (ASEE), 2022. | 2022 |
| TD Nguyen & P. Pishdad-Bozorgi, "A Review of Life Cycle Assessment Tools for Measuring the Environmental Impact of Building and a Decision Support Framework for Choosing Among Them," Associated Schools of Construction International Conference (ASC), 2023. | 2022 |
| TD Nguyen & P. Pishdad-Bozorgi, "Overcoming the barriers toward widespread adoption of prefabrication: An approach involving emerging technologies," International Group for Lean Construction Conference (IGLC31), 2023. | 2023 |
| TD Nguyen & S. Adhikari, "Investigation of Digital Twin in the Perspective Construction industry: Based on Literature Review," the American Society of Civil Engineers Conference (ASCE), 2023. | 2023 |
| TD Nguyen & S. Adhikari, "The Role of BIM to Integrate Digital Twin in Building Construction," Sustainability in Multidisciplinary Digital Publishing Institute (MDPI) Journal, 2023. | 2023 |
| D Nguyen & S. Adhikari, "Integrating BIM into Sustainable Design: Perception and Awareness of Architecture and Construction Management Students," American Society for Engineering Education (ASEE), 2024. | 2024 |
| TD Nguyen, P. Pishdad & E. Fanijo, "A comparative analysis of LEED and Green Globes: A case study approach to environmental performance assessment of an educational campus facility," International Group for Lean Construction Conference (IGLC32), 2024. | 2024 |

RESEARCH INTERESTS

BIM – Digital Twin – Sustainable Design – Green Building – Energy Efficiency – Modular Construction – Life Cycle Assessment – Project Delivery Methods

RESEARCH PROJECT

Lifecycle Environmental Impact Assessment of Distributed Construction

May 2022-Aug.2023

- Compare the environmental impact of on-site vs distributed construction for a building.
- Develop methods to measure the benefits of distributed construction over the entire lifecycle.
- Conduct research to enhance effective solutions and incorporate sustainable and innovative practices.

SKILLS

- Research tools: Nvivo, SPSS, Decision Tree, @Risk
- Reference Management Software: EndNote, Zotero, Mendeley, RefWorks
- Life cycle Assessment software: Tally LCA, EC3, Athena Impact Estimator
- Construction Management software: Microsoft Project, Primavera 6 (P6), BIM360, Procore
- BIM design software: AutoCAD, REVIT, Navisworks, Dynamo
- 3D Modeling and Rendering: 3DMax, VRay Renderings, Sketch Up, Lumion
- Graphic Design and Multimedia: Adobe Photoshop, InDesign, Illustrator, Bluebeam Revu
- Dual Languages.
- Soft skills: Leadership, Teaching, Interpersonal skills, Project Management, Presentation, Data Analysis, Time Management, Computer proficiency.

AWARDS & DEGREES

- 2024 Outstanding Graduate Student Instructor (GSI) Award, Georgia Tech
- 2023 Fellowship Award, College of Design Executive Advisory Board, Georgia Tech
- 2022 Master's Degree in Construction Management, Kennesaw State University
- 2021 Scholarly Teaching Intro Certificate at Kennesaw State University
- 2021 Best Research Paper, American Society for Engineering Education (ASEE) Annual Conference & Exposition
- 2012 Professional licensed in Architecture & Planning Design from Vietnam Architects Association
- 2010 Winner award, 15 years of US-Vietnam Relations Logo competition
- 2008 Merit Award, Hanoi Youth Cultural & Sports Complex Design competition
- 2007 Bachelor's degree in Architecture & Planning Design, National University of Civil Engineering
- 2007 Merit Award, Vietnam Post & Communication Office Building Design competition
- 2006 Merit Award, Hanoi Southern Gate Design competition
- 2006 1st Prize, Quang Tri Province Cultural Center Design competition
- 2002 Winner Award, National Art students Design competition