

Anh D. (Andy) Chau, Ph.D., PE, PMP

EDUCATION

- The University of Alabama, Tuscaloosa, Alabama** Dec 2018
PhD, Civil Engineering, GPA: 4.0/4.0
- Specialty: Construction and Project Management
 - Dissertation: "Conceptual Cost Estimation Decision Support System in University Construction Projects"
- MS**, Civil Engineering, GPA: 4.0/4.0 Dec 2016
- Specialty: Construction and Project Management
- Bach Khoa University, Ho Chi Minh, Vietnam** Apr 2014
BEng, Civil Engineering, GPA: 7.58/10

PROFESSIONAL CERTIFICATION

- Professional Engineer (PE). Board: Florida. License Number: PE94142. Expiration: 2023.
- Project Management Professional (PMP). Certification Number: 2923832. Expiration: 2023
- LEED Green Associate. Certification Number: 0011345989. Expiration: 2023
- OSHA 30-hour Construction Safety and Health. Reference Number: 26-607352045

TEACHING EXPERIENCE

Florida Gulf Coast University

Instructor

- Project Planning and Regulation (two sections): Fall 2021
- Temporary Structure: Fall 2021
- Structures for Construction: Spring 2022
- Sustainable Approach to Construction: Spring 2022
- Construction Estimating II: Spring 2022

The University of Florida

Instructor of Record

- Civil Engineering Operation I (graduate level): Spring 2021
- Civil Engineering Estimating (undergraduate level): Spring 2021, Fall 2019
- Special Problems in Civil Engineering (undergraduate level): Spring 2019

The University of Alabama

Graduate Teaching Assistant

- Construction Scheduling (undergraduate and graduate levels): Fall 2018

TEACHING PROFESSIONAL DEVELOPMENT

- 2022, Integrating Curriculum with Entrepreneurial Mindset 1.0 (ICE 1.0)
2021, New Faculty Academy Program, Aug – Dec 2021
2021, ASCE ExCEED Teaching Workshop, July 2021
2020, National Effective Teaching Institute (NETI-3) for Online Instruction, June 2020
2019, Teaching TechXploration Event, University of Florida, November 2019
2017, International Teaching Assistant Program (ITAP) (received full passes on 2 teaching exams)
2016, Workshop for New Graduate Teaching Assistants, University of Alabama, August 2016

RESEARCH AND PROFESSIONAL EXPERIENCE

Florida Gulf Coast University

Instructor II May 2022–Present

- Teach civil engineering and construction management courses.

Visiting Instructor I Aug 2021–May 2022

- Teach civil engineering and construction management courses.

The University of Florida Feb 2018–Jul 2021

Postdoctoral Associate

- Investigate the professional formation of engineers (focusing on civil engineers), models that promote diversity, inclusion, satisfaction, affective engagement in work, and personal resilience.

The University of Alabama Jan 2016–Dec 2018

Graduate Research Assistant

- Investigate application of big data analytics in construction and decision support systems for construction cost estimation.

Dong Thap Province Rural Development and Agriculture Department, Vietnam Apr–Dec 2014

Project Manager

- Work in the Mekong Delta integrated climate resilience and sustainable livelihoods project in Dong Thap province.
- Collaborate with World Bank in preparing investment documents.

Mechanical Construction Services Joint-Stock Company No. 9, Vietnam Jun–Jul 2013

Site Engineer (Internship)

- Monitor site activities and provided site supervision.

One-member Design & Consultant Co., Ltd., Vietnam. May–Jun 2013

Assistant Architect (Internship)

- Develop construction drawings.

PUBLICATIONS

Journal Articles

Simmons, D. R., and **Chau, A. D.** (2021). Factors that predict participation in out-of-class activities for STEM students. *Journal of STEM Education*, 22(1), 52–61. <https://www.jstem.org/jstem/index.php/JSTEM/article/view/2444/2202>

Polmear, M., **Chau, A. D.**, and Simmons, D. R. (2021). Intersection of diversity, out-of-class engagement, and engineer of 2020 outcomes for civil engineering students. *Journal of Management in Engineering*, 37(4), 04021019. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000901](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000901)

Polmear, M., **Chau, A. D.**, and Simmons, D. R. (2020). Ethics as an outcome of out-of-class engagement across diverse groups of engineering students. *Australasian Journal of Engineering Education*. <https://doi.org/10.1080/22054952.2020.1836752>

Moynihan, G. P. and **Chau, A. D.** (2019). Application of decision support technology for conceptual cost estimation. *Engineering Management Research*, 8(2), pp. 30–41. <https://doi.org/10.5539/emr.v8n2p30>

Simmons, D. R., **Chau, A. D.**, Turner, M. (in print). Validating the Resilience at University Scale with Future Civil Engineering and Construction Professionals. *Journal of Management in Engineering*. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0001073](https://doi.org/10.1061/(ASCE)ME.1943-5479.0001073)

Conference Proceedings

Chau, A. D., Hoang, H. T., Nguyen, L. D., and Le-Hoai, L. (2022). Construction of Rigid Pavement in Emerging Economies: Challenges and Opportunities. Canadian Society for Civil Engineering 2021 Annual Conference, May 26-29, 2021. https://doi.org/10.1007/978-981-19-0968-9_37

Simmons, D. R. and **Chau, A. D.** (2020). The impact of fraternity and sorority participation on NAE's engineer of 2020 outcomes for civil engineering undergraduates. Proceedings of the 11th International Conference on Applied Human Factors and Ergonomics (AHFE 2017) and the Affiliated Conferences, 2020. San Diego, CA. https://doi.org/10.1007/978-3-030-51057-2_43

Moynihan, G. P. and **Chau, A. D.** (2019). Conceptual Cost Estimation DSS for University Construction Projects. *Proceedings of the 2019 Industrial and Systems Engineering Research Conference (ISERC 2019)*, Orlando, FL, May 18–21, 2019.

Chau, A. D., Moynihan, G. P., and Vereen, S. P. (2018). Design of a Conceptual Cost Estimation Decision Support System for Public University Construction. *Construction Research Congress 2018*, Baton Rouge, LA. <https://doi.org/10.1061/9780784481295.063>

Moynihan, G. P., **Chau, A. D.,** Vereen, S., and Batson, R. G. (2017). Application of Big Data in University Construction Projects. *Proceedings of the 2017 Industrial and Systems Engineering Research Conference* (K. Coperich, E. Cudney and H. Nembhard, eds.), Pittsburgh, PA, May 20–23.

Research Reports

Lu, J., Bowman, B., **Chau, A. D.,** & Simmons, D. R. (2020). Decision support system for engineering undergraduates on participating in out-of-class activities, University of Florida, <https://github.com/simmonsData/simmonsDataVis2>

Liou, A., Zundel, Z., Suhr, J., Lu, J., Bowman, B., **Chau, A. D.,** & Simmons, D. R. (2019). The development of a data visualization system for out-of-class activities data of engineering students, University of Florida, <https://github.com/introNG2E/simmonsDataVis>

Poster

Simmons, D. R. & **Chau, A. D.** (2019). CAREER: Investigating co-curricular participation of students underrepresented in engineering, *NSF EEC Grantees Conference*, Arlington, VA, October 21–23, 2019.

Simmons, D. R. & **Chau, A. D.** (2019). Preparing a 21st century STEM workforce: Defining & measuring leadership in civil engineering education, *NSF EEC Grantees Conference*, Arlington, VA, October 21–23, 2019.

SERVICE

Professional Service

Reviewer: Studies in Educational Evaluation, Journal of STEM Education, Journal of Management in Engineering, Journal of Civil Engineering and Management, Construction Research Congress 2020, ASEE Annual Conference 2020.

Member: ASCE, ASEE, PMI.

Department Service:

Graduate Recruitment: Simmons, D. R., Tran, K., & **Chau, A. D.** How to Apply for Doctoral Study in the USA (emphasized the University of Florida): Preparations and recommendations for Vietnamese applicants. Ho Chi Minh, Da Nang and Ha Noi, Vietnam, Fall 2019

Undergraduate Recruitment: **Chau, A. D.** Bach Khoa University Admission Consulting Program: Recruit undergraduate students for Bach Khoa University, Fall 2013

Undergraduate Mentorship:

Alex Liou, undergraduate, University of Florida.

Ivan Zundel, undergraduate, University of Florida.

Juan Suhr, undergraduate, University of Florida.

Joey Lu, undergraduate, University of Florida.

Blaise Bowman, undergraduate, University of Florida.

AWARDS AND HONORS

The University of Alabama.

- Fellowship of Construction Administration Department 2016–2018

Bach Khoa University

- Unicons LLC, Outstanding students. 2013