

Joel Ochieng' Wao, PhD, VMA, ENV SP, FQSi (Fellow), AM ASCE

Florida Gulf Coast University
U.A. Whitaker College of Engineering
Department of Construction Management
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EDUCATION

Ph.D.	University of Florida	Design, Construction & Planning (Construction Management)	2014
M.Ed.	University of South Florida	Curriculum & Instruction (Measurement and Evaluation)	2008
B.A.	University of Nairobi	Building Economics (Quantity Surveying)	2005
Cert.	East Africa Uongozi Institute	Leadership and Globalization	2002

PROFESSIONAL EXPERIENCE

Associate Professor of Construction Management	Florida Gulf Coast University, Fort Myers, Florida <i>Responsibilities:</i> Teaching, research, and service to the university and community.	8/2021-Present
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Adjunct Faculty of Construction Management	Florida Gulf Coast University, Fort Myers, Florida <i>Responsibilities:</i> Teaching.	7/2021-8/2021
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Courses Taught at Florida Gulf Coast University:

BCN 1930: Construction Seminar	Summer B 2021
BCN 3240C: Construction Methods and Equipment	Fall 2021-Present
BCN 4510C: Mechanical Systems	Fall 2021
BCN 4594: Building Energy Modeling	Fall 2021-Present
BCN 1201C: Construction Materials	Spring 2022-Present
BCN 3590: Sustainable Approach to Construction	Spring 2022
EGN 5932C: Building Energy Modeling	Fall 2022
BCN 4730: Construction Safety, Health & Environment	Spring 2023
BCN 4787: Construction Capstone	Spring 2023

Associate Professor of Construction Science and Management (Tenured)	Tuskegee University, Tuskegee, Alabama <i>Responsibilities:</i> Teaching, research, and service to the university and community.	4/2021-8/2021
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Chair of the Department of Construction Science	Tuskegee University, Tuskegee, Alabama <i>Responsibilities:</i> Teaching, research, and service to the university and community.	7/2018-8/2021
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Assistant Professor of	Tuskegee University, Tuskegee, Alabama <i>Responsibilities:</i> Teaching, research, and service to the university and community.	8/2015-3/2021
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Construction
Science and
Management

Courses Taught at Tuskegee University:

CSMT 101: Introduction to Construction I	Fall 2015
ARCH/CSMT 344: Structures II	Spring 2016
CSMT 345: Construction Surveying & Layouts	Fall 2015, Spring 2017-2021
CSMT 350: Green Building Design & Construction	Fall 2016-Fall 2020
CSMT 441: Cost & Estimating I	Fall 2015-Fall 2020
CSMT 442: Cost & Estimating II	Spring 2016-Spring 2021
ARCH/CSMT 443: Structures III	Fall 2016
ARCH 443: Structures III	Fall 2017-Fall 2020
CSMT 480: Construction Management Capstone	Spring 2016-Spring 2018
CSMT 500/501/502: Construction Coop	Spring 2019

Construction Management & Inspection Assistant	City of Gainesville Public Works, Gainesville, FL <i>Responsibilities:</i> Inspecting construction projects to ensure standards are met; Project management duties including contractor prequalification and organizing projects to ensure owner satisfaction and smooth closeout.	6/2014- 7/2015
Graduate Teaching Assistant	M.E. Rinker, Sr. School of Construction Management, University of Florida, Gainesville, FL. <i>Courses Assisted:</i> BCN 4423C: Temporary Structures BCN 1582: International Sustainable Development BCN 6641: Value Engineering <i>Responsibilities:</i> Grading course assignments, term papers and exams; Assisting instructors in teaching selected topics and overall course administration; Training, coordinating and supervising teams of graduate students conducting value analysis of building systems.	8/2009- 4/2014
Graduate Research Assistant	Department of Measurement and Research, College of Education, University of South Florida, Tampa, FL. <i>Responsibilities:</i> Developing survey research instruments; Data collection, analysis and reporting; Developing and evaluating the development of the Survey Research Methods and Ph.D. Online Statistics courses (graduate level courses).	8/2006- 7/2009
Assistant Quantity Surveyor	CostekAlma Construction Consultants, Nairobi, Kenya <i>Responsibilities:</i> Estimating, Preparing and evaluating bids; Change order reviews; Site inspections, Project coordination and administration; Overall construction consultancy duties.	6/2003- 7/2006
Construction Internship	Ministry of Public Works, Nairobi, Kenya <i>Responsibilities:</i> Preparing bid documents for residential, commercial and highway projects.	3/2003- 6/2003

Mathematics Tutor	Kanga High School and Mbita High School, Kenya <i>Responsibilities:</i> Teacher and tutor for grade 12 (Form Four) students preparing for the Kenya National Examinations.	1/2001- 7/2006
Drawing & Design (DD) Tutor	Kanga High School, Migori, Kenya <i>Responsibilities:</i> Tutor for grade 12 (Form Four) students preparing for the Kenya National Examinations.	1/2001- 11/2003
Store Keeper and Physics, Chemistry, Biology & Mathematics Teacher	Lambwe High School, Mbita, Kenya <i>Responsibilities:</i> Monitoring and keeping inventory of items used in the daily running of school; Teaching Physics (grade 9, 10); Chemistry (grade 9, 10), Biology (grade 11) and Mathematics (grade 9, 10, 11, 12).	1/2000- 12/2000

Teaching Evaluation Summary at Tuskegee University

<i>Semester</i>	<i>Department</i>	<i>Course</i>	<i>Average</i>
Fall 2015	Construction Science	CSMT 101: Introduction to Construction I	4.3/5.0
	Construction Science	CSMT 345: Construction Layout and Surveying	4.9/5.0
	Construction Science	CSMT 441: Cost and Estimating I	4.6/5.0
Spring 2016	Architecture and Construction Science	ARCH/CSMT 344: Structures II	4.5/5.0
	Construction Science	CSMT 442: Cost and Estimating II	4.9/5.0
	Construction Science	CSMT 480: Construction Management Capstone	4.8/5.0
Fall 2016	Construction Science	CSMT 350: Green Building Design & Construction	4.4/5.0
	Construction Science	CSMT 441: Cost and Estimating I	4.7/5.0
	Architecture and Construction Science	ARCH/CSMT 443: Structures III	4.7/5.0
Spring 2017	Construction Science	CSMT 345: Construction Layout and Surveying	4.9/5.0
	Construction Science	CSMT 442: Cost and Estimating II	4.3/5.0
	Construction Science	CSMT 480: Construction Management Capstone	4.0/5.0
Fall 2017	Construction Science	CSMT 350: Green Building Design & Construction	4.6/5.0
	Construction Science	CSMT 441: Cost and Estimating I	4.5/5.0
	Architecture	ARCH 443: Structures III	4.3/5.0
Spring 2018	Construction Science	CSMT 345: Construction Layout and Surveying	4.8/5.0
	Construction Science	CSMT 442: Cost and Estimating II	4.9/5.0
	Construction Science	CSMT 480: Construction Management Capstone	4.8/5.0
Fall 2018	Construction Science	CSMT 350: Green Building Design & Construction	*NA
	Construction Science	CSMT 441: Cost and Estimating I	*NA
	Architecture	ARCH 443: Structures III	*NA
Spring 2019	Construction Science	CSMT 345: Construction Layout and Surveying	*NA
	Construction Science	CSMT 442: Cost and Estimating II	*NA
	Construction Science	CSMT 500/501/502: Construction Coop	*NA
Fall 2019	Construction Science	CSMT 350: Green Building Design & Construction	4.9/5.0
	Construction Science	CSMT 441: Cost and Estimating I	5.0/5.0
	Architecture	ARCH 443: Structures III	4.6/5.0
Spring 2020	Construction Science	CSMT 345: Construction Layout and Surveying	*NA
	Construction Science	CSMT 442: Cost and Estimating II	*NA

	Construction Science	CSMT 500/501/502: Construction Coop	*NA
Fall 2020	Construction Science	CSMT 350: Green Building Design & Construction	4.9/5.0
	Construction Science	CSMT 441: Cost and Estimating I	4.8/5.0
	Architecture	ARCH 443: Structures III	4.5/5.0
Spring 2021	Construction Science	CSMT 345: Construction Layout and Surveying	4.7/5.0
	Construction Science	CSMT 442: Cost and Estimating II	4.4/5.0
		Cumulative AVERAGE	4.6/5.0
		<i>*NA = Not Available / Data available on request</i>	

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIP

National Center for Construction Education & Research (NCCER): #18925142	Member, 2018 - Present
American Council for Construction Education (ACCE)	Member, 2016 - Present
Project Management Institute (PMI): #4012419	Member, 2016 - Present
Associated Schools of Construction (ASC): #1062086220	Member, 2015 - Present
American Institute of Steel Construction (AISC): #3117439	Member, 2015 - Present
Society of American Value Engineers (SAVE) International: #52589	Member, 2012 - Present
Quantity Surveyors International (FQSI): #2954	Member, 2012 - Present
United States Green Building Council (USGBC)	Member, 2011 - Present
American Society of Civil Engineers (AM. ASCE): #9137796	Member, 2010 - Present
Sigma Lambda Chi (SLX): International Construction Honor Society	Member, 2010 - Present
Royal Institution of Chartered Surveyors (APC-RICS): #5040095	Member, 2009 - Present

HONORS AND AWARDS

Fellow	Quantity Surveyors International, United Kingdom	2021
Outstanding Faculty Performance Award for Teaching	Taylor School of Architecture and Construction Science (TSACS), Tuskegee University, Tuskegee, AL.	2018-2019
Outstanding Faculty Performance Award for Research	Taylor School of Architecture and Construction Science (TSACS), Tuskegee University, Tuskegee, AL.	2017-2018
Procter & Gamble Grant	The P&G Fund of the Greater Cincinnati Foundation	2016-2017
Outstanding Faculty Performance Award for Research	Taylor School of Architecture and Construction Science (TSACS), Tuskegee University, Tuskegee, AL.	2015-2016
Graduate Teaching Assistantship	M.E. Rinker, Sr. School of Construction Management, University of Florida, Gainesville, FL.	2009-2014
Cemex Scholarship	M.E. Rinker, Sr. School of Construction Management, University of Florida, Gainesville, FL.	2010
Grinter Scholarship	Graduate School, University of Florida, Gainesville, FL.	2010
Teaching with Technology	Center for Teaching, University of Florida, Gainesville, FL.	2009
Graduate Fellowship	Department of Measurement and Research, University of South Florida, Tampa, FL.	2008-2009
Graduate Research	Department of Measurement and Research, University of	2006-2009

Assistantship	South Florida, Tampa, FL.	
Student Athletics Award	University of Nairobi, Kenya	2003-2004
Student Performance Recognition and Award	Kanga High School, Migori, Kenya	1995-1997
Student Performance Recognition and Award	Kuja Zone, Migori, Kenya	1994

ACADEMIC, LEADERSHIP AND VOLUNTEER SERVICES

Faculty Senate	Florida Gulf Coast University, Fort Myers, FL	2022-2025
Peer Review Committee	Florida Gulf Coast University, Fort Myers, FL	2022-2024
Board of Reviewers	<i>Building Journal</i>	2022-Present
Search Committee	Florida Gulf Coast University, Fort Myers, FL	2022-2023
Sigma Lambda Chi Advisor-Omicron III	Florida Gulf Coast University, Fort Myers, FL	2022 – Present
Student of the Year Selection	Florida Gulf Coast University, Fort Myers, FL	2022-Present
Students Mentoring	Florida Gulf Coast University, Fort Myers, FL	2021-Present
Search Committee	Florida Gulf Coast University, Fort Myers, FL	2021-2022
Academic Honesty Committee	Tuskegee University, Tuskegee, AL	2021-2021
Compliance Committee	Tuskegee University, Tuskegee, AL	2019-2021
Faculty Senate	Tuskegee University, Tuskegee, AL	2018 – 2020
Board of Reviewers	<i>International Journal of Construction Education & Research</i>	2018 - Present
Grievance Committee	Tuskegee University, Tuskegee, AL	2017-2018
Research Council	Tuskegee University, Tuskegee, AL	2017 - 2021
Board of Reviewers	<i>Journal of Construction Business and Management</i>	2016 - Present
Board of Reviewers	<i>International Conference on Waste Management</i>	2016 - Present
Graduate Faculty	Tuskegee University, Tuskegee, AL.	2016 - 2021
Board of Reviewers	<i>International Journal of Construction Management</i>	2016 - Present
Sigma Lambda Chi Students Advisor-MU II	Tuskegee University, Tuskegee, AL	2015 - 2021
Research and Graduate Studies Committee	Tuskegee University, Tuskegee, AL.	2015 - 2021
Board of Reviewers	<i>Associated Schools of Construction (ASC) International Conference</i>	2015-Present
First Aid & CPR Instructor	American Red Cross Volunteer Program, North Central Florida Chapter	2014-2015
GED Tutor	Volunteer Tutoring Program, GCM, Gainesville, FL.	2014-2015
Science Fair Judge	Alachua County Schools Volunteer Program, Gainesville,	2011-2015
Editorial Board Member	<i>Journal of African Studies Quarterly</i> , University of Florida, Gainesville, FL.	2010-2018
Sports Director	African Students Union, University of Florida, FL.	2011-2015
Proposal Evaluation	Urban Soccer Initiative, US Soccer Foundation, Washington	2010-2014

Board	DC, USA	
Graduate Students Senator	Student Government, University of Florida, FL.	2012-2013
Graduate Students Representative	College Council, University of Florida, Gainesville, FL.	2011
Selection and Review Board	East Africa Uongozi (Leadership) Institute, University of Nairobi, Kenya	2003-2004
Academic Secretary	Students of Building and Land Economics (SOBELE), University of Nairobi, Nairobi, Kenya	2001-2003
Football(soccer) Captain	Faculty of Architecture, Design and Development (FADD), University of Nairobi, Nairobi, Kenya	2001-2004

CERTIFICATION

OSHA Outreach Trainer	Department of Labor, USA	2022-Present
Craft Instructor (Core Curriculum)	National Center for Construction Education and Research (NCCER)	2018-present
Curriculum Proctor	National Center for Construction Education and Research (NCCER)	2018-present
Curriculum Performance Evaluator (Core Curriculum)	National Center for Construction Education and Research (NCCER)	2018-present
Envision Sustainability Professional (ENV SP)	Institute for Sustainable Infrastructure	2016-present
Value Management Associate (VMA)	SAVE International	2016-present
OSHA 30 Hour-Construction	US Department of Labor	2015-present
First Aid/ AED/ CPR	American Red Cross Society	2015

CONTINUED PROFESSIONAL DEVELOPMENT (CPD)

OSHA 510 and 500	OSHA Training Institute at USF, Tampa, USA	2022
Mechanical and Electrical Systems	ASC at Cal Poly-San Luis Obispo, USA	2022
Roofing Construction	Roofing Alliance at University of Arizona, USA	2022
Human Subject Research	Institutional Review Board (CITI Programs)	2017-present
Personal Protective Equipment	CITI Programs	2020-present
Value Management	SAVE International	2017-present
Risk Management	SAVE International	2017
Sustainable Design & Construction	Institute for Sustainable Infrastructure	2016-present
Estimating (Risk Management)	Kiewit Corporation (Industry-Academia liaison)	2016
Value Management Methods	SAVE International (Module 1)	2016
Project Management Fundamentals	Project Management Institute	2015
Risk, Liability & Insurance in Valuation work	Royal Institution of Chartered Surveyors (RICS)	2015
Ethical Standards	Royal Institution of Chartered Surveyors (RICS)	2015

RESEARCH STUDENTS AT TUSKEGEE UNIVERSITY (UNDERGRADUATE)

<i>No.</i>	<i>Name</i>	<i>Major</i>	<i>Status</i>
1	Stephanie Jones	Construction Science & Management	Graduation Spring 2018
2	Domonique Jiles	Architecture	Graduation Spring 2020

GRANTS

	<i>Organization</i>	<i>Project Title</i>	<i>Amount</i>
1	Proctor and Gamble (P & G) Fund, 2016-17: PI	Student-Industry Professionals Engagement to Support Learning Outcomes and Mastery for Construction Science and Management Students	\$8,500
2	Proctor and Gamble (P & G) Fund, 2017-18: PI	Academia-Industry Partnership for Skill Development of Construction Students	\$10,000
3	Proctor and Gamble (P & G) Fund, 2018-19: PI	Estimating Course Curriculum Improvement for Construction Science and Management Students	\$10,000
4	Proctor and Gamble (P & G) Fund, 2019-20: PI	Curriculum Development for Lifelong Skills Training of Students	\$20,000
5	National Science Foundation (NSF), 2020: CO-PI	Building Construction Robotics Safety Connect (Construct-RoBo Safe Connect)	(\$749,394)
6	Proctor and Gamble (P & G) Fund, 2020-21: PI	Technology advancement to be at the cutting edge for construction management students	(\$20,000)
7	National Science Foundation (NSF), 2020-21: PI	Value Methodology for Sustainability Outcome in the Built Environment	(\$288,208)
8.	U.S. Department of Energy: Electric Power Institute Inc. 2020-21: Co-PI	Readying a Workforce for Installing Building Thermal Envelope Options	\$250,000

PUBLICATIONS

Doctoral Degree Dissertation

Wao, J.O. (2014). [Value Engineering Methodology to Improve Building Sustainability Outcomes](#). *Ph.D. Dissertation*, University of Florida, Gainesville, FL.

Masters Degree Research Practicum

Wao, J.O. (2008). Developing the Ph.D. Online Statistics Course: Analysis of Survey Results. *Masters Research Practicum*. University of South Florida, Tampa, FL.

Undergraduate Degree Research Thesis

Wao, J.O. (2004). An Evaluation of Building Materials Performance: Case of Galvanized Corrugated Sheets and Earth Block Walling Materials. A Case Study of West Kamagambo Location in Rongo Division, Migori, Kenya. *Undergraduate Research Thesis*. University of Nairobi, Kenya.

Book Chapter

Wao, J.O. (2022). Relationship between undergraduate GPA and Associate Constructor (AC) exam scores of construction management students. In T. Leathem, W. Collins and A. Perrenoud (editors). 58th Annual Associated Schools of Construction International Conference, *EPiC Series in Built Environment*, vol 3, pg. 706-714. <https://easychair.org/publications/volume/ASC2022>

Wao, J.O. (2018). Improving creativity in the value engineering process for green building construction. In C. Wang, C. Harper, Y. Lee, R. Harris, & C. Berryman (Eds.), *Construction Research*

Congress 2018: Sustainable Design and Construction and Education (780-790). New Orleans, Louisiana: American Society of Civil Engineers <https://doi.org/10.1061/9780784481301>

Wao, J. O. (2017). Value engineering evaluation method for sustainable construction. In J. S. Volz (Eds.), AEI 2017: Resilience of the Integrated Building (1090-1102). Oklahoma City, Oklahoma: American Society of Civil Engineers <https://doi.org/10.1061/9780784480502>

Refereed/Peer Reviewed Journal Publications

Wao, J. O., Huie Dixon, E., Hunt III, R., & Rodgers, C. (2022). High School Students in Architecture and Construction Management University Summer Camp Program. *International Journal of Scientific Research and Management*, 10(05), 47–56. <https://doi.org/10.18535/ijstrm/v10i5.cs01>

Wao, J. (2018). Weighted Product Method in the Value Engineering Process for Construction Project. *International Journal of Scientific Research and Management*, 6(12), EC-2018. <https://doi.org/10.18535/ijstrm/v6i12.ec03>

Wao, J.O. & Flood, I. (2016). The role of quantity surveyors in the international construction arena. *International Journal of Construction Management*, 16 (2), 126-137. <http://dx.doi.org/10.1080/15623599.2016.1142251>

Wao, J.O., Ries, R., Flood, I., Sarel, L. & Ozbek, M. (2016). [Relationship between admission GRE scores and graduation GPA scores of construction management graduate students](#). *International Journal of Construction Education and Research*, 12 (1), 37-53.

Wao, J. O. (2015). [Predicting the future of quantity surveying profession in the construction industry](#). *Journal of Construction Project Management and Innovation*, 5(2), 1211-1223

Wao, H.O., Lee, R.S., Wao, J.O., Odondi, G.O., Tenge, E.A. & Smit, C.A. (2015). [Predicting degree attainment in engineering and biological/life sciences: an exploratory study](#). *Journal of Women and Minorities in Science and Engineering*. 21(4), 347-362.

Wao, J. & Ries, R. (2015). Function analysis approach to improve sustainability outcomes. *SAVE International Value World*, 41(2), 1-16.

Wao, J. & Flood, I. (n.d.d.). Value engineering roles of quantity surveyors in construction projects. *International Journal of Construction Management* (2nd Review)

Wao, J.O. (n.d.d.). Assessment of student-learning outcomes in the construction surveying course to satisfy ACCE standard (in preparation).

Wao, J.O. (n.d.d.). Impact of Building Information Modeling (BIM) on quantity surveying profession (in preparation).

National and International Conference Proceedings

Wao, J.O., Ries, R., Schattner, S. & Flood, I. (2022). [Relationship between undergraduate GPA and Associate Constructor \(AC\) exam scores of construction management students](#). *58th Annual ASC International Conference, April 20-23 2022, Georgia Tech and Kennesaw University, Atlanta, Georgia, USA*. <https://doi.org/10.29007/plzh>

Wao, J.O., Stephanie, J., & Jiles, D. (2018). [Improving student-learning outcomes in the construction surveying course](#). *54th Annual ASC International Conference, April 18-21 2018, University of Minnesota, Minneapolis, USA*.

Wao, J.O. (2018). [Improving creativity in the value engineering process for green building construction](#). *Construction Research Congress (CRC) 2018, ASCE, April 3-5, New Orleans, Louisiana, USA*.

- Wao, J.O. (2017). [Enhancing the function analysis and identification phase of the value engineering methodology](#). *SAVE International Value Summit 2017, August 27-30, Philadelphia, Pennsylvania, USA*.
- Wao, J.O., Hunt III, R., Lewis, W., Sanders A. & Roberts, E. (2017). Students driven value methodology application in construction project. *SAVE International Value Summit 2017, August 27-30, Philadelphia, Pennsylvania, USA*
- Wao, J. O. (2017). [Value Engineering Evaluation Method for Sustainable Construction](#). *Architecture and Engineering Institute, ASCE International Conference, Oklahoma City, April 11-13, 2017*
- Wao, J., Bivins, K., Ries, R., Schattner, S. & Hunt III, R. (2017). [SAT and ACT scores as predictors of undergraduate GPA of construction science and management students](#). *53rd Annual ASC International Conference, April 5-8 2017, University of Washington, Seattle, USA*
- Wao, J.O., Hunt III, R., Sanders A. & Roberts, E. (2016). Application of weighted product method in value engineering. *SAVE Value Summit 2016, June 5-7 Niagara Falls, ON, Canada*.
- Wao, J., Ries, R., Flood, I. & Kibert, C. (2016). Practitioners driven approach to improving the value methodology. *SAVE Value Summit 2016, June 5-7 Niagara Falls, ON, Canada*.
- Wao, J., Ries, R., Flood, I. & Kibert, C. (2016). [Refocusing value engineering for sustainable construction](#). *52nd Annual ASC International Conference, April 13-16 2016, Brigham Young University, Provo, Utah, USA*.
- Wao, J., Ries, R., Ozbek, M., Carroll, J., Bivins, K. & Hunt III, R. (2016). [Predicting the performance and success of construction management graduate students using GRE scores](#). *52nd Annual ASC International Conference, April 13-16 2016, Brigham Young University, Provo, Utah, USA*.
- Wao, J. (2015). [A review of the value engineering methodology: Limitations and solutions for sustainable construction](#). *SAVE Value Summit 2015, June 8-10 San Diego, CA, USA*.
- Wao, J., Ries, R., Flood, I., Sarel, L. & Ozbek, M. (2015). [Investigating the Predictive Ability of Admission GRE Scores on Graduation GPA Scores of Domestic and International Students in Construction Management Graduate School Programs](#). *51st Annual ASC International Conference, April 22-25 2015, Texas A&M, Texas, USA*.
- *Bell-Ellison, B. A., Rendina-Gobioff, G., Hines, C., Hohlfeld, T., Kromrey, J. D., Phan, H., Hess, M., Hibbard, S., Wao, J., & Pride, B. (2007). Transitions in college and beyond: Applying prospect theory to investigate academic decisions and career choices. *Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL, April 9-13, 2007*.
- *Hohlfeld, T., Bell-Ellison, B., Hess, M., Hines, C., Kromrey, J., Phan, H., Rendina-Gobioff, G., Pride, B., Wao, J. & Hibbard, S. T. (2007, February). Application of prospect theory to academic and employment decision making in science and engineering: A secondary analysis of SESTAT Data. *Paper presented at the annual meeting of the Eastern Educational Research Association, Clearwater, Florida, February 14 – 17, 2007*.
- *Phan, H. Bell-Ellison, B., Hess, M., Hines, C., Hohlfeld, T., Kromrey, J., Rendina-Gobioff, G., Hibbard, S., Pride, B., and Wao, J. (2006, November). Correlates of decision making: Factors associated with degree completion and employment. *Paper presented at the annual meeting of the Florida Educational Research Association, Jacksonville, Florida, November 15 – 17, 2006*.

Presentations at National and International Conferences

- *Wao, J.O., Ries, R., Schattner, S. & Flood, I. (2022). Relationship between undergraduate GPA and Associate Constructor (AC) exam scores of construction management students. *58th Annual ASC*

- International Conference, April 22 2022, Georgia Tech and Kennesaw University, Atlanta, Georgia, USA.*
- *Hunt, R., Wao, J., & Bivins, K. (2018). Tuskegee University's Role in Construction Education History as the Oldest US Construction Baccalaureate. Construction History Society of America (CHSA), *6th Biennial Meeting on Construction History, May 24-26, 2018, University of Maryland, Maryland, USA*
- *Wao, J.O., Stephanie, J., & Jiles, D. (2018). Improving student-learning outcomes in the construction surveying course. *54th Annual ASC International Conference, April 20 2018, University of Minnesota, Minneapolis, USA.*
- Wao, J.O. (2018). Improving creativity in the value engineering process for green building construction. *Construction Research Congress (CRC) 2018, ASCE, April 4, New Orleans, Louisiana, USA.*
- Wao, J.O. (2017). Enhancing the function analysis and identification phase of the value engineering methodology. *Paper Presented at the SAVE International Value Summit 2017, August 28, Philadelphia, Pennsylvania, USA.*
- Wao, J. O. (2017). Value Engineering Evaluation Method for Sustainable Construction. *Paper Presented at the Architecture and Engineering Institute, ASCE International Conference, Oklahoma City, April 12, 2017*
- Wao, J., *Bivins, K., Ries, R., Schattner, S. & Hunt III, R. (2017). SAT and ACT scores as predictors of undergraduate GPA of construction science and management students. *Paper Presented at the 53rd Annual ASC International Conference, April 5-8 2017, University of Washington, Seattle, USA*
- *Wao, J., Ries, R., Flood, I. & Kibert, C. (2016). Refocusing value engineering for sustainable construction. *Paper Presented at the 52nd Annual ASC International Conference, April 13-16 2016, Brigham Young University, Provo, Utah, USA.*
- *Wao, J., Ries, R., Ozbek, M., Carroll, J., Bivins, K. & Hunt III, R. (2016). Predicting the performance and success of construction management graduate students using GRE scores. *Paper Presented at the 52nd Annual ASC International Conference, April 13-16 2016, Brigham Young University, Provo, Utah, USA.*
- Wao, J. (2015). A review of the value engineering methodology: Limitations and solutions for sustainable construction. *Paper Presented at the SAVE Value Summit 2015, June 8-10 San Diego, CA, USA.*
- *Wao, J., Ries, R., Flood, I., Sarel, L. & Ozbek, M. (2015). Investigating the Predictive Ability of Admission GRE Scores on Graduation GPA Scores of Domestic and International Students in Construction Management Graduate School Programs. *Paper Presented at the 51st Annual ASC International Conference, April 22-25 2015, Texas A&M, Texas, USA.*
- Wao, J. (2011). Appropriate materials selection for sustainable water infrastructure in sub-Saharan Africa. *Poster presented at the College of Design, Construction and Planning (DCP) Show-case, University of Florida, Gainesville, FL.*
- *Wao, J., *Fay, R., & Ferron, J. (2008, November 19-21). A SAS program for conducting randomization tests of multiple baseline data. *Poster presented at the Florida Educational Research Association, Orlando, FL.*
- *Bell-Ellison, B. A., Rendina-Gobioff, G., Hines, C., Hohlfeld, T., Kromrey, J. D., Phan, H., Hess, M., Hibbard, S., Wao, J., & Pride, B. (2007). Transitions in college and beyond: Applying prospect theory to investigate academic decisions and career choices. *Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL, April 9-13, 2007.*

- *Hohlfeld, T., Bell-Ellison, B., Hess, M., Hines, C., Kromrey, J., Phan, H., Rendina-Gobioff, G., Pride, B., Wao, J. & Hibbard, S. T. (2007, February). Application of prospect theory to academic and employment decision making in science and engineering: A secondary analysis of SESTAT Data. *Paper presented at the annual meeting of the Eastern Educational Research Association, Clearwater, Florida, February 14 – 17, 2007.*
- *Phan, H. Bell-Ellison, B., Hess, M., Hines, C., Hohlfeld, T., Kromrey, J., Rendina-Gobioff, G., Hibbard, S., Pride, B., and Wao, J. (2006, November). Correlates of decision making: Factors associated with degree completion and employment. *Paper presented at the annual meeting of the Florida Educational Research Association, Jacksonville, Florida, November 15 – 17, 2006.*

Newsletter Publications

- Wao, J.O. (2022). [Roofing as a Specialty in the Construction Industry](#). *QS EYE for Quantity Surveyors, UK, Spring 2022, pg5-6.*
- Wao, J.O. (2021). [Technology use in the construction industry during the COVID-19 pandemic](#). *QS EYE for Quantity Surveyors, UK, winter 2021, pg14-15.*
- Wao, J.O. (2018). [Information technology and generation gap in the construction industry](#). *QS EYE for Quantity Surveyors, UK, winter 2018, pg 21.*
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- Wao, J. & Hunt III, R. (2016). [Construction industry-academia symbiotic relationship: in view of construction management](#). *QS EYE for Quantity Surveyors, UK, autumn 2015, pg 12.*
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- Wao, J. (2014). [Quantity surveying and value analysis: A survey of quantity surveyors in the construction industry](#). *QS EYE for Quantity Surveyors, UK, autumn 2014, pg 18.*
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- Wao, J. (2013). [Trend analysis of quantity surveying profession](#). *QS EYE for Quantity Surveyors, UK, summer 2013, pg 12-13*
- Wao, J. (2013). [State of international construction market in Africa](#). *QS EYE for Quantity Surveyors, UK, spring 2013, pg 10-11.*
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Other Invited/Guest Lectures

- Wao, J.O. (2022). Stairs for construction safety, *Presentation at the University of South Florida (USF) OSHA Training Institute Education Center, Florida, July 11-14, 2022.*
- Wao, J.O. (2020). Value methodology for sustainability, *presented at the U.A. Whitaker College of Engineering at FGCU, Florida, December 3 2020*
- Wao, J.O. (2020). Planning for building construction, *presented at the U.A. Whitaker College of Engineering at FGCU, Florida, December 3 2020*
- Wao, J.O. (2017). Introduction to Construction Estimating. *Presentation at the National Center for Construction Education and Research (NCCER) Training Center, Birmingham, Alabama, November 20-21, 2017.*
- Wao, J.O. (2016). Research process in architecture and construction science & management. *Presented to the Faculty of Architecture and Construction Science, Tuskegee University, April 5, 2016.*
- Wao, J.O., Hunt III, R., Sanders A. & Roberts, E. (2015). The Carver Center for Sustainability wall partition project. *Presented to the Carver Center for Integrative Sustainability, Tuskegee University, December 14 2015.*
- Wao, J.O. (2015). PPE in construction projects. *Presented to the School of Built Environment at the University of North Florida, Jacksonville, Florida, April 6 2015.*
- Wao, J.O. (2015). Application of value engineering in construction projects. *Presented to Construction Department at North Carolina A&T, Greensboro, North Carolina, February 7, 2015*
- Wao, J.O. (2014). Alternative approaches to improving the value methodology in sustainable construction. *Presented at the University of Florida, Gainesville, Florida, March 2014.*
- Wao, J.O. (2014). Life Cycle Costing and its application in value engineering. *Presented at the University of Florida, Gainesville, Florida, March 2014.*

Books

- Wao, J. O. & Marinda, M. O. (2006). *The King Pin Series I*. Heinemann Education Series: Kenya. *Mathematics revision textbook for Kenya high schools.*
- Marinda, M. O. & Wao, J.O. (2004). *Procedure for Excellence in O-level Mathematics*. Kenya Publishing House: Kenya. *Mathematics revision textbook for Kenya high schools.*