Olgawodo@buffalo.edu


BOOK CHAPTERS

PEER REVIEWED CONFERENCE PROCEEDINGS
1. N. Juneja, J. Zola, V. Chandola and O. Wodo: "Graph-based Strategy for Establishing Morphology Similarity". In 33rd International Conference on Scientific and Statistical Database Management (SSDBM 2021)
3. F. Schoeneman, V. Chandola, N. Napp, O. Wodo, J. Zola "Entropy-Isomap: Manifold Learning for High-dimensional Dynamic Processes", 2018 IEEE International Conference on BigData Seattle, (the premier conference on data science, data mining, knowledge discovery, large-scale data analytics, and big data)

INVITED, KEYNOTE AND SEMINAR TALKS
1. Facebook webinar: Data Science, Machine Learning, and AI: Applications and Opportunities Webinar Timeline"Microstructure Informatics" October 2021.


17. Seminar: "From portable electronics to spacecrafts: understanding and tailoring morphology for heterogeneous material systems", Aerospace Engineering Department, Iowa State University, 2014.


SELECTED CONFERENCE PROCEEDINGS


19. O. Wodo, B. Ganapathysubramanian "Graph Based Technique to Quantify Charge Transport Characteristics of Heterogenous Morphologies", AIChE 2015, November, Salt Lake City.


TEACHING EXPERIENCES AT UB
MDI 502: Quantitative Structure Property Relationships in Materials (graduate course)
MDI 506: Kinetics, Microstructure and Defects (graduate course)
MAE 336: Heat Transfer (undergraduate course)
MAE 367: Applied Math for MAE (undergraduate course)

RESEARCH AWARDS


2020: UB Community for Health Equity: MySoRe: Mycelium-based soil remediation in the City of Buffalo, PI: O. Wodo (seed proposal).
2019: UB:CMI: "Harnessing materials informatics to accelerate the development of Restorative Dental Materials", PIs: B. Mazumder, O. Wodo, $50,000 (20%).


OTHER AWARDS

2018: Academic Leadership of Women in Engineering travel award, October 2018, Minneapolis, MN.

2017: Early Career Teacher of the Year Award, University at Buffalo, School of Engineering and Applied Sciences.

2017: Institute on Teaching and Mentoring, travel award, October 2017, Atlanta, GA.

2013: Journal of Materials Chemistry C, RSC Publishing Poster Prize at International Colloquium on Flexible Electronics, 2013, KAUST.


2012: 10th World Congress on Computational Mechanics Travel Award, 2012.


2010: 9th World Congress on Computational Mechanics Travel Award, 2010.


2002: Best Student Award Mechanical Engineering Department, Czestochowa University of Technology.

1999-2003: Fellowship best student of the year, Mechanical Engineering Department, Czestochowa University of Technology.

MENTORING AND GRADUATE STUDENT COMMITTEE AT UB

- Former PhD student at MDI: Kiran Vaddi (2017-2021).
- undergraduate mentoring at CSE: Snigda Motadaka (2020 - 2021), Muhammad Niaz (summer 2021).
undergraduate mentoring at EE: Alexander Hiller (2017)
undergraduate mentoring at CBE: Sykhere Brown (2018)
High school student mentoring "The Somers Science Research" program: Adrianna Tagayun (Summer 2019)
graduate student committee membership at MDI: Olivia Licata (PhD, 2017-2021), Zachary Corey (PhD, 2018-2021).
graduate student committee membership at other departments at UB: Luis Segura (PhD, ISE), Guhan Vel-
murugan (MSc, MAE), Prerna Gera (PhD, MAE, 2017), Pavan Kumar Behara (PhD, CDSE), Viswanath
Pasumarthi (PhD, CBE, 2020), Guanglei Zhao (PhD, ISE, 2018).
Visiting scholar: Elzbieta Gawronska (Spring 2020).

AWARDS FOR MENTORED STUDENTS

- Devyani Jivani - the finalist of Three minute thesis (3MT) competition at University at Buffalo, March 2021.
- Poster award for Mriganka Roy, 3rd place in MAE Graduate Research Poster Competition, University at Buffalo, February 2020.
- Mentoring experience, MARPG Scholarship from the MidAtlantic Rubber and Plastics Group for graduate student: Eric Oliviero and his project on Mycelium, August 2019.
- Mentoring experience, University at Buffalo, Buffalo, NY, October 2014-2016, Yuxi Lin, undergraduate mentoring: "Inner Life of Organic Solar Cells: Quantifying Morphology", Dean’s scholarship winner for 2015 Undergraduate Dean’s Research Conference Scholarship, Niagara Falls, NY.
- Mentoring experience, Iowa State University, Ames, Iowa, June-August 2010, 10-week summer REU-project: "Analyzing the morphological structure of a polymer photovoltaic cell through computational homology," Kahntinetta Pr’Out, Savannah State University (HBSU), best poster award during "Peach State Louis Stokes Alliance for Minority Participation," 2010 and best poster award during "Emerging Researchers National Conference in STEM 2010".

SERVICE WORK

- community Co-chair of annual meeting of the Materials Research Data Alliance (MaRDA), 2022.
- school: UB panelist in a Facebook Live Session on "Internship, Research, and Career Opportunities Discussion", February 19, 2019.
- K12 education role: instructor of the teaching module on solar energy, Climate Summit, Buffalo, June, 2018.
PROFESSIONAL ACTIVITIES

- Reviewer for NASA, and NSF.
- Editor of Special Issue on: "Cyber Manufacturing – Emerging Frontiers in Sensing, Modelling and Control" in International Journal of Rapid Manufacturing
- Member of Materials Research Society (MRS), American Physical Society (APS), and United States Association of Computational Mechanics (USACM).