

# OLUJIDE (JIDE) OYERINDE

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## EDUCATION

**Ph.D. (Candidate, 3.5/4.0 GPA) Materials Science and Engineering**, Clarkson University, Potsdam, New York, USA

*Exp. Grad. Dec 2025*

Research: Experimental and computational studies of the role of microstructural morphology, transformation, and deformation mechanisms on the macroscopic mechanical behavior of (metallic) alloys. The two approaches (experimental and computational) are currently being applied to AlCoCrFeNi high-entropy alloy and AlSi10Mg alloy.

**B.S. (3.85/5.0 GPA) Metallurgical and Materials Engineering**, University of Lagos, Akoka, Lagos, Nigeria

*Nov 2008*

Thesis: The effect of varied quantities of silicon carbide addition on the mechanical and electrical resistance of cast aluminum AA 6063 was investigated.

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## TECHNICAL SKILLS

Scanning Electron Microscopy. Energy Dispersive Spectroscopy. Electron Backscattered Diffraction. X-ray Diffraction. Tensile Strength Testing. Rockwell Hardness Testing. Vickers Micro-hardness Testing. Nanoindentation. Goal-oriented. Adaptability. Patience. Creativeness. Problem-solving. Resourcefulness. Computer Hardware Maintenance, Programming and Design.

## CERTIFICATIONS

• Hot Sheet and Plate Rolling Fundamentals, AIST • Sheet Processing and Finishing Lines, AIST • Project Management: 101 • The Making, Shaping and Treating of Steel: 101, AIST • Ramp Errors Decision Aid, Boeing Commercial Airplanes

## RESEARCH/TEACHING EXPERIENCE

**Research Assistant** - Experimental/Computational, Clarkson University

*Jan 2021 – present*

- Prepare and characterize (test) alloys samples
- Investigate the microstructure-process-property relationship of alloys
- Model the microstructure-informed modification of alloys' properties
- Heat-treat alloys samples
- Design and execute research/projects
- Analyze data and prepare manuscripts
- Mentor undergraduate research assistant

**Teaching Assistant**, Clarkson University

*Jan 2021 – present*

- Spring Semester: Instruct the Introduction to the Engineering Use of the Computer (ES100)
- Lead undergraduate teaching assistants
- Fall Semester: Instruct/grade mechanical engineering laboratory section of Experimental Methods (ME/AE 301)

## CURRENT PUBLICATIONS AND CONFERENCE PRESENTATIONS

Current publications and conference presentations include: 6 published articles, and 3 oral/4 poster presentations in conferences including Materials Research Society (MRS), ASM International, Center of Advanced Materials Processing (CAMP) Annual Technical Meeting, and The Minerals, Metals, and Materials Society (TMS). Top publications and conference presentations:

- (Article) **J. Oyerinde**, Tailored unstable fault energies accurately predict deformation in metastable high-entropy alloys, MRS Bulletin (2023). <https://doi.org/10.1557/s43577-023-00527-2>.
- (Article) A. Sosimi, O. Gbenebor, **O. Oyerinde**, O. Bakare, S. Adeosun, S. Olaleye, Analysing wear behaviour of Al–CaCO<sub>3</sub> composites using ANN and Sugeno-type fuzzy inference systems, Neural Computing and Applications. 32 (2020). <https://doi.org/10.1007/s00521-020-04753-6>.

- (Article) W. Ayoola, M. Bodude, S. Durowaye, R. Falade, U. Ezekiel, And **O. Oyerinde**, Corrosive Influence of Varied Salt Solutions Concentration on Mild Steel, UUES, vol. 5, no. 1, pp. 40–54 (2022). [https://doi: 10.47137/uues.1073121](https://doi.org/10.47137/uues.1073121).
- (Article) W. Ayoola, S. Durowaye, K. Andem, **O. Oyerinde**, and J. Ojakoya, Effects of Surface Preparation on the Corrosion Behavior of Mild Steel, Tikrit j. eng. sci., vol. 29, no. 1, pp. 16–25. Tikrit Journal of Engineering Sciences, 29(1), 16–25. (2021). <https://doi.org/10.25130/tjes.29.1.2>
- (Conference, Oral Presentation) **J. Oyerinde**, I. Mastorakos, A. Achuthan, P. Yuya, Fabrication of AlCoCrFeNi High Entropy Alloy via Binder Jetting and Direct Energy Deposition: Characterization, Microstructural Modification, and Analysis, Materials Research Society (MRS) Fall Meeting & Exhibit, Massachusetts (2022).
- (Conference, Poster Presentation) **J. Oyerinde**, I. Mastorakos, A. Achuthan, P. Yuya, Isothermal Treatments of AlCoCrFeNi High Entropy Alloy Produced via Binder Jetting and Direct Energy Deposition: Microstructural Modification and Analysis, ASM International Heat Treat 2023, Michigan (2023).
- (Conference, Poster Presentation) **J. Oyerinde**, I. Mastorakos, A. Achuthan, P. Yuya, Modeling of Micromechanical Properties in FCC Polycrystalline CoCrNi Medium-Entropy Alloy (MEA) using the Fast Fourier Transform Approach, Center of Advanced Materials Processings (CAMP) – Annual Technical Meeting, New York (2023).
- (Conference, Poster Presentation) **J. Oyerinde**, I. Mastorakos, A. Achuthan, P. Yuya, Fabrication of AlCoCrFeNi High Entropy Alloy via Binder Jetting and Direct Energy Deposition: Characterization, Microstructural Modification, and Analysis, The Minerals, Metals, and Materials Society (TMS) 2023 Meeting and Exhibition, California (2023).

## **CAREER EXPERIENCE**

**Design Director/Lead Tutor**, HisSplendour Designs, Lagos, Nigeria

*Nov 2016 – Dec 2020*

**Online Customer Care Representative**, MTN Communications Ltd, Lagos

*Oct 2011 – Sep 2016*

**Intern - Line Maintenance and Technical Assistant**, Arik Airlines Ltd, Lagos

*Apr 2007 – Dec 2007*

## **AWARDS/ACHIEVEMENTS**

- Fall 2023 Student Speakers' Travel Grant, American Society of Metals International (ASM), Detroit, MI
- Selected Research Presentation, Clarkson University's 17th President Inauguration RAPS, Potsdam, NY

## **PROFESSIONAL ASSOCIATIONS / COMMITTEE MEMBERSHIP**

Association for Iron and Steel Technology (AIST) • American Society of Metals Int'l (ASM) • The Minerals, Metals & Materials Society (TMS) • Materials Research Society (MRS) • American Society for Testing and Materials Int'l (ASTM)

- Member, Metallurgy Processing, Products & Applications Technology Committee, AIST
- Member, Writer/Author, MRS Bulletin/UREMS, MRS

## **VOLUNTEERING / HOBBIES**

- Packaging/Package Handler, CFC Monthly Food Pantry Community Service.
- Santa's Workshop Volunteer, 2023 Potsdam Holiday Fund.
- Judge, Spring 2024 New York Excelsior/Clarkson Region FIRST Technology Challenge.
- Volleyball. Playing Chess. Playing the Piano.