

Birendra Chaudhary

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Education

The University of Mississippi – Oxford, MS

Graduation: May, 2020

Bachelor of Science – Mechanical Engineering

Minor: Mathematics

GPA: 3.93

Honors College

International Academic Excellence Scholarship

Phi Kappa Phi

Tau Beta Pi

Tools and Skills

Design Tools	AutoCAD, Pro E / PTC Creo, Inventor, SolidWorks
Machinery	MIG Welding, Laser / Plasma Cutter, Steel / Wood Cutter, Grinder, Band Saw, CNC, Milling, Pipe Bending
General	Microsoft Excel, Microsoft PowerPoint, Microsoft Word, G-suite
Lab / Research	Universal Testing Machine, Soldering, DIC software tracking, GOM Correlate, FileZilla, Putty, Ovito, LAMMPS, Split Hopkinson Pressure Bar Testing, Low Velocity Impact testing
Programming	MATLAB, Arduino

Research Experience

Undergraduate Research Assistant

The University of Mississippi

Summer 2019 - Present

- Assist in modeling and simulation of Nano-Particles
- Computational Modelling using LAMMPS to compare mechanical properties at different strain and heat rates
- Interpret and analyze the results using Microsoft Excel and Ovito for visualization of simulated particles

Undergraduate Research / Lab Assistant

The University of Mississippi

October 2018 - Present

- Assist in testing wood composites, reinforced composites, ballistics and other materials at low velocity and high strain-rate testing video recorded via Shimadzu HPV 2 camera
- Interpret and analyze data using Microsoft Excel and validate using MATLAB GUI script and DAQ software
- Professional article publication pending as of Jan 2020 estimated publication date: Feb 2020

Work Experience

The University of Mississippi

Undergraduate Teaching Assistant – Department of Mechanical Engineering

Professor: Dr. Shan Jiang

Course: Engineering Graphics Fundamentals (AutoCAD)

Fall 2019

Professor: Dr. Shan Jiang

Course: Statics (Engr 309)

Spring 2019 & Spring 2020

- Provide help sessions at several times during the week to clarify and assist students outside of class (both)
- Assist in class works and homework distribution as well as communication with student questions via email
- Prepare enough to give lecture if the prof is out to ensure students understand the material (statics)

Instructor: Damian Stoddard

Course: Material Science Laboratory (Engr 314)

Fall 2019 - Present

- Provide lectures and guidance on laboratory concepts, executions, and introduction to applications of materials
- Assist in experimentations, report formatting, machines used in experiments and any laboratory questions
- Grade lab reports on the understanding of material as well as real-world applications and provide feedback

Math Tutor – Department of Mathematics

Aug 2018 – Aug 2019

- Reviewed class material with students by discussing text, working solutions to problems and reviewing assignments
- Helped students develop study and note-taking skills and learning strategies
- Proctored online examinations for Calculus I through IV as well as business calculus

Campus Involvements

Olemiss Robotics Club (*Secretary*)

International and American Student Alliance (*Orientation Leader*)

American Society for Mechanical Engineers (*Member*)

Intercultural Communication at Olemiss (*Advisory Board*)

Society of Automotive Engineers (*Member*)

Gamma Beta Pi Honor Society (*Member*)

Institute of Electrical and Electronics Engineers (*Member*)

For more information, see my LinkedIn page: [linkedin.com/in/birendrac246](https://www.linkedin.com/in/birendrac246)