

JULIAN A. FLOREZ

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EDUCATION

University of Michigan, Ann Arbor, MI

Anticipated graduation 2023

Major: Industrial & Operations Engineering

Minor: Complex Systems, GPA: 3.8

Emphasis: Sustainability & Energy

Global Scholars [Program](#) Alumni

WORK EXPERIENCE

Santa Fe Institute, Santa Fe, NM

Summer 2021

Complexity Researcher

- One of eleven undergraduate students selected to be in the [Undergraduate Complexity Research Program](#) (formally REU). I am working with post-docs and faculty on a self-created complex systems research project analyzing environmental waste scaling properties while modeling circular economy interactions to deliver growth recommendations at a company perspective.

University of Michigan, Ann Arbor, MI

2019-2021

Lab Researcher in the [Asset Lab](#)

Lab researcher II (2021-current)

- Researched, designed, and developed a multi-objective optimization model for the retirement of coal plants in the Mid-Atlantic region to inform future policy decisions.

Lab researcher I (2019-2020)

- Conducted research on renewable energy capacity values in a *National Assessment of Wind and Solar Resources*. Developed a power system model, ran simulations on Michigan's Supercomputing cluster, and synthesized results into a peer reviewed research paper over the summer of 2020. Presented work at multiple conferences to industry professionals and leading academics ([ERS](#), [MUSE](#), [ISST](#)).
- Resulted in [paper](#) published in a leading Renewable Energy journal.

Microsoft, Redmond, WA

Summer 2019

Software Intern

- Worked alongside software engineers, attorneys, and product managers within Microsoft's OXO Division. Designed, created, and implemented an extensible, developer friendly, and widely adopted open-source telemetry [package](#).

SKILLS

Python, MATLAB, R, Tableau, TypeScript, AutoCAD, SolidWorks, Git, C++, and Java

ACHIEVEMENTS

LinkedIn Course Certification: [Become a Supply Chain Manager](#), 2021

[Michigan Journal of International Affairs](#): Staff Writer, ([recent piece](#)) 2021

University Honors & Dean's List, University of Michigan, 2019-present

Boeing & Alumni Merit Scholarship, University of Michigan, 2019-present