

# BJORN JOHANSSON

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## EDUCATION

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Bachelor of Science, Mechanical Engineering, University of Utah

December, 2023

Dean's List, GPA: 3.674

## TECHNICAL SKILLS

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- Python
- Research
- GitLab/VS Code
- MATLAB
- ParaView
- Microsoft Office
- Abaqus
- SOLIDWORKS
- Command Line Interface

## EMPLOYMENT

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**Undergraduate Researcher**, Supervised by Dr. Ashley Spear

Multiscale Mechanics & Materials Laboratory, University of Utah

May 2022 – Present

- Created code using Python and Abaqus to simulate skull fractures
- Researched fracture mechanics for code verification and validation
- Coauthored three publications and multiple presentations for engineering conferences

**Research Intern**, Supervised by Dr. Gil Moss

Math Department, University of Utah

July 2021 – May 2022

- Produced research on modular forms and complex analysis
- Created code in Python to analyze the Weierstrass  $\wp$  Function

**Math Pre-Undergraduate Research**

Math Department, University of Utah

June 2021 – August 2022

- Prepared for future research opportunities through coding and mathematical research
- Collaborated with other students to solve challenging math problems