

JACKSON ESHBAUGH

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 [jacksoneshbaugh](#) |  [jacksoneshbaugh](#) |  [jacksoneshbaugh](#)

Bethlehem, PA — 18020, USA

EDUCATION

• Lafayette College

B.S., Computer Science

◦ GPA: 4.00/4.00

August 2023–May 2027

Easton, PA

• Lafayette College

A.B., French Language

◦ GPA: 4.00/4.00

August 2023–May 2027

Easton, PA

RESEARCH INTERESTS

Topics

Machine Learning Interpretability Computational Linguistics
Theoretical Foundations of Artificial Intelligence

Guiding Questions

How do we make neural networks more transparent?
How do linguistic structure and semantics interact in multilingual NLP models?

PUBLICATIONS & PREPRINTS

C=CONFERENCE, J=JOURNAL, P=PREPRINT, S=IN SUBMISSION, T=THESIS

- S.1 Eshbaugh, J. (2025) [Fidelity Isn't Accuracy: When Linearly Decodable Functions Fail to Match the Ground Truth](#). Submitted to the Mechanistic Interpretability Workshop, NeurIPS 2025. arXiv:2506.12176

EXPERIENCE

• Department of Computer Science, Lafayette College

Teaching Assistant

- Assist professors with teaching duties by helping students during class meetings.
- Hold two review sessions per week, covering course content.
- Produce materials such as worksheets and presentations for sessions.
- Praised by students as an outstanding teacher who cares and can explain complex things in ways that make sense.
- More information on my [teaching page](#).

August 2024 - Present

Easton, PA

• Department of Computer Science, Lafayette College

EXCEL Scholar

- Advisor: Dr. Jorge Silveyra
- Conduct meaningful, novel research in machine learning.
- Focus on applying ML concepts to the energy sector, employing computational techniques in novel ways.
- Run experiments, draw conclusions, and write results.
- More information on my [research page](#).

June 2025 - Present

Easton, PA

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C, ML
- **Machine Learning:** PyTorch, TensorFlow, NumPy
- **Other Tools & Technologies:** L^AT_EX

HONORS AND AWARDS

• Marquis Scholarship

Lafayette College

- Demonstrated intellectual curiosity in addition to superior academic achievement.
- Recipients display the Marquis' ideals of global citizenship, scholarly pursuits, leadership, and concern for others.

May 2023



• Dean's List

Lafayette College


- Achieved a Semester GPA of 3.60 or higher.


F23, S24, F24, S25

VOLUNTEER EXPERIENCE

- **Audio/Visual Specialist**
Hope Alliance Church
 - Design and operate weekly worship slides and sermon visuals
 - Configure live stream and projection systems for services
 - Run slides and broadcast during live events
 - Troubleshoot technical issues quickly and independently
 - Maintain and reset the worship space after services
 - Apply skills in graphic design, live sound, and audiovisual tech
 - Serve faithfully by supporting worship through technical service
 - **Audio/Visual Specialist**
Lafayette DiscipleMakers Christian Fellowship
 - Similar service to the above with no live stream component

July 2021 - Present


- September 2023 - Present



CERTIFICATIONS

- **Deep Learning Specialization**

June 2025

ADDITIONAL INFORMATION

Languages Spoken

English (Native Tongue), French (Fluent; Professional Competency)

Interests

Music (Jazz Vocals, Trombone, Piano, Composition); Photography and Photo Editing; Videography and Video Editing