

# JACKSON ESHBAUGH

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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

**P.1**   Eshbaugh, J. (2025) [Fidelity Isn't Accuracy: When Linearly Decodable Functions Fail to Match the Ground Truth](#) 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<sup>A</sup>T<sub>E</sub>X

## 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