

Curriculum Vita  
For  
JOSHUA OTTEN

Computer Science Department  
George Mason University  
4400 University Dr., MSN 4A5 Fairfax, VA 22030

Telephone: (703) 993-1530

Email: jotten4 at gmu.edu

Website: <https://joshua-otten.github.io/>

## EDUCATION

<b>PhD in Computer Science</b>	George Mason University	Expected 2027
[Honors: Presidential Scholarship, 2023]		
Cumulative GPA 3.96		

**M.S. Computer Science**      George Mason University      Expected Spring 2025

**B.S. Computer Science** College of William and Mary 2022  
[Honors: Summa Cum Laude; Phi Beta Kappa]  
Cumulative GPA 3.92

## RESEARCH EXPERIENCE

Spring 2023-Present	Research Assistant, GMU NLP lab under Dr. Antonios Anastasopoulos
Summer 2021	W&M Monroe Summer Research Scholarship (advisor Dr. Jeremy Pope)

## PUBLICATIONS

- Milind Agarwal, Joshua Otten, Antonios Anastasopoulos, “Script-Agnostic Language Identification” NAACL 2025.

- Joshua Otten, Antonios Anastasopoulos, “Towards Ancient Meroitic Decipherment: A Computational Approach” ALP 2025.

- Joshua Otten, Antonios Anastasopoulos, Kevin Moran, “Towards a Universal Python: Translating the Natural Modality of Python into Other Human Languages” ICSME 2023.  
<https://ieeexplore.ieee.org/abstract/document/10336301>

- Joshua Otten, Antonios Anastasopoulos, Kevin Moran, “Automated Python Translation”  
preprint 2025. <https://arxiv.org/pdf/2504.11290>

## PRESENTATIONS

Spring 2025  
Languages”

- Poster Presentation at NAACL 2025, hosted in Albuquerque

Spring 2025      “Towards Ancient Meroitic Decipherment: A Computational Approach”  
- ALP Workshop co-located with NAACL 2025, hosted in Albuquerque

Fall 2024 LECTURE: “Interpretability of NLP Models”

- CS 678, “Advanced NLP” *George Mason University*

- Spring 2023      “Script-Agnostic Language Identification”  
- Poster Presentation at MASC-SLL, hosted at JHU  
- Best Paper Award
- Fall 2023          “Towards a Universal Python: Translating the Natural Modality of Python into Other Human Languages”  
- ICSME Conference in Bogotá, Colombia
- Spring 2023      “Working Towards Meroitic Decipherment: A Computational Approach”  
- Poster Presentation at MASC-SLL, hosted at GMU
- Summer 2022    “Working Towards Meroitic Decipherment: A Computational Approach”  
- Invited presentation at W&M/GMU Egyptology Conference

## **SOFTWARE PROJECTS**

“UniPy”, translates Python code for five libraries into eight other human languages:  
<https://github.com/Joshua-Otten/UniPy>

## **AWARDS / RECOGNITIONS:**

- Spring 2023      Presidential Scholarship (GMU)  
Spring 2022      Phi Beta Kappa W&M Honor Society  
Summer 2021    Monroe Scholar Award (W&M)  
Spring 2021      W&M Dean’s List  
2019-2021      Alpha Lambda Delta W&M Honor Society  
2019-2021      Phi Eta Sigma W&M Honor Society  
Spring 2020      W&M Dean’s List  
Fall 2019        W&M Dean’s List

**Highlighted Graduate Coursework (Computer Science)**      George Mason University  
Completed: Advanced NLP, Analysis of Algorithms, Intro to AI, Database Systems, Embedded Systems  
In progress: Machine Learning

## **Computer Languages**

- Proficient in: Python, Java, C
- Familiar with: C++, Pascal, HTML, XML, Javascript, and MIPS Assembly

## **Other Skills**

Foreign Languages

- French, Latin, Ancient Egyptian Hieroglyphic, Arabic, Greek (Koine)

Martial Arts (10 years)

- Tae Kwon Do Black Belt (2<sup>nd</sup> degree) / Shotokan Karate Black Belt / Muay Thai Kickboxing

Professional Acting/Singing/Dancing (14 years)