

Antonio Laverghetta Jr.

580-583-9743 ♦ A.V.Laverghetta@gmail.com ♦ [\[LinkedIn\]](#) ♦ [\[GitHub\]](#)

EDUCATION

Ph.D. in Computer Science | University of South Florida | May 2023 (expected)

BS in Computer Science | University of South Florida | December 2018

EXPERIENCE

Graduate Research Assistant

January 2019 – Present

Advanced Machine and Human Reasoning Lab, Tampa, FL

- Developed a model of semantic relatedness using LSA and sci-kit learn.
- Designed a computational model of analogies using Category Builder, Word2Vec, and other language models
- Used PyTorch to create a curriculum learning framework to improve performance of the BERT and RoBERTa language models on Natural Language Inference tasks
- Work was published at respected conferences

Teaching Assistant

April 2020 – September 2020

Trilogy Education, New York, NY

- Mentored students in Trilogy's Data Analytics Bootcamp
- Instructed students on a variety of Data Science tools, including SQL, Python, AWS, and Tableau among others
- Delivered a lecture PyTorch for NLP applications
- Overall satisfaction was consistently rated 4 or higher on a 5-point scale

Computer Science Intern

May 2018 – September 2018

ConnectWise, Tampa, FL

- Created Python test scripts for ConnectWise Manage web application
- Researched original issue to develop reproducible steps for testing
- Troubleshooted issues with REST API using Postman and Requests
- Used git and CodeCollab to maintain quality assurance and source control
- Completed 16 test suites for various use cases, used for QA in production environments

Intern

August 2016 – July 2017

Tenex Software Solutions, Tampa, FL

- Developed Tenex's .NET web application platform
- Implemented UI improvements using Bootstrap and DevExpress
- Created and debugged SQL queries to interface with multiple MySQL databases
- Performed maintenance on AWS infrastructure as necessary
- Succeed in resolving approximately 125 bugs in both the frontend and the backend

PUBLICATIONS

Laverghetta Jr., A. and Licato, J. “Modeling Age of Acquisition Norms Using Transformer Networks”, 34th International FLAIRS, 2021 (submitted)

Laverghetta Jr., A., Mirzakhlov, J., and Licato, J., “Towards a Task-Agnostic Model of Difficulty Estimation for Supervised Learning”, AACL-IJCNLP Student Research Workshop, 2020

Boger, M., **Laverghetta Jr., A.**, Fetisov, N., and Licato, J., “Generating Near and Far Analogies for Educational Applications: Progress and Challenges”, ICMLA, 2019

SKILLS AND CERTIFICATIONS

Operating Systems: Windows 7/8.1/10, Linux+ certified

Languages: Java, VB.NET, HTML, CSS, Javascript, JSON, SQL, YAML, Python (skilled)

Libraries: NumPy, SciPy, scikit-learn, NetworkX, OpenCV, Bootstrap, Tensorflow, PyTorch, Keras, Transformers, SimpleTransformers, Flask, Matplotlib, Pandas, Jupyter

Development Tools: Visual Studio, git, Notepad++, Anaconda, Postman, github, PyCharm

Protocols: IP, TCP, UDP, HTTP, DNS

Cloud: Google Cloud, AWS

Theory: Linear Algebra, Knowledge Graphs, Computer Vision, Image Processing, Reinforcement Learning, Deep Learning, Natural Language Processing (skilled)

Productivity: Word, PowerPoint, Excel, Teams, Slack, Trello

LEADERSHIP AND COMMUNITY SERVICE

Founding President

Society of Competitive Programmers

November 2017 – December 2018

USF Student Organization

Volunteer Researcher

Turkic Interlingua

November 2020 - Present

- Developed language models for low resource Turkic languages
- Wrote web scraping scripts to extract monolingual and bi-text data
- Submitted work for publication at ACL-IJCNLP