

Michael Evans

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EDUCATION

Old Dominion University, Norfolk, VA, United States
Bachelor of Science in Computer Science
GPA: 3.92/4.00

Sept 2023-May 2025

Tidewater Community College, Portsmouth, VA, United States
Associate of Science in Computer Science
Associate of Science in Business Administration
GPA: 3.96/4.00

May 2021-May 2023

May 2017-May 2019

PUBLICATIONS

Conference Proceedings

Michael Evans, Dominik Soós, Ethan Landers, and Jian Wu. 2023. MSVEC: A Multidomain Testing Dataset for Scientific Claim Verification. In *The Twenty-fourth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc '23)*, October 23–26, 2023, Washington, DC, USA. ACM, New York, NY, USA, 6 pages. <https://doi.org/10.1145/3565287.3617630> [\[Paper\]](#)

Preprints

M. Evans, M. Machado, R. Johnson, L. Escamilla, A. Vadella, B. Froemming-Aldanondo, T. Rastoskueva, M. Jostes, D. Butani, R. Kaddis, C. Chung, and J. Siegel. 2024. Vehicle-to-Everything (V2X) Communication: A Roadside Unit for Adaptive Intersection Control of Autonomous Electric Vehicles [ICRA 2025, in review] [\[Paper\]](#)

B. Froemming-Aldanondo, T. Rastoskueva, **M. Evans**, M. Machado, A. Vadella, L. Escamilla, R. Johnson, M. Jostes, D. Butani, R. Kaddis, C. Chung, and J. Siegel. 2024. Developing, Analyzing, and Evaluating Self-Drive Algorithms Using Drive-by-Wire Autonomous Vehicles [ICRA 2025, in review] [\[Paper\]](#)

TALKS

Robust Lane Following with V2X Traffic Management

Research Experience for Undergraduates in Developing Self-Drive Algorithms for Electric Vehicles, Lawrence Technological University, 2024 (REU '24).

The Potential of Large Language Models in Evaluating Scientific Claims

Undergraduate Research Symposium; 2024 Mar 30; Norfolk, Virginia (VA): ODU Digital Commons (URS '24).

MSVEC: A Multidomain Testing Dataset for Scientific Claim Verification

The Twenty-fourth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc '23).

Scientific News Verification With GPT

Research Experience for Undergraduates in Disinformation Detection and Analytics, Old Dominion University, 2023 (REU '23).

RESEARCH EXPERIENCE

Research Assistant

Sept 2024-Present

ODU Vision Lab, advised by Dr. Khan Iftekharuddin

- Trained a deep convolutional neural network (CNN) for target identification using VGG16 for MARCbot IV, a surveillance robot capable of identifying, tracking, and following individuals, using MATLAB.

- Calibrated the autonomous driving algorithm for target following in tight, cluttered environments, enabling safe indoor demonstrations that were previously not viable.

NSF Research Intern - Developing Self-Drive Algorithms for Electric Vehicles May-July 2024
Lawrence Tech and Michigan State University, advised by Dr. Chung and Dr. Siegel
Computer Science & Artificial Intelligence Robotics Lab

- Authored *Vehicle-to-Everything (V2X) Communication: A Roadside Unit for Adaptive Intersection Control of Autonomous Electric Vehicles* as the lead researcher.
- Formulated an adaptive speed algorithm to reduce vehicle idling, full stops, and pedestrian injuries, and incorporated robust lane-following algorithms for self-driving using ROS, OpenCV, and Scikit-learn.
- Assembled a V2X wireless communication architecture with a roadside unit capable of dynamically adjusting vehicle speed in response to traffic states, and deployed an Arduino-powered traffic light for visualization.

NSF Research Intern - Disinformation Detection and Analytics June-Aug 2023
Old Dominion University, advised by Dr. Jian Wu
Lab for Applied Machine Learning and Natural Language Processing Systems

- Wrote *MSVEC: A Multidomain Testing Dataset for Scientific Claim Verification* as the first author.
- Conducted prompt engineering and expanded the project corpus from 56 to 200 data objects for testing the effectiveness of the gpt-3.5-turbo model.
- Analyzed the performance of a zero-shot method with GPT-3.5 against the MSVEC dataset on two sub-tasks: stance labeling and identifying sentence rationales. Compared the capabilities of GPT on the task of scientific claim verification against several domain-specific datasets for training models.

PROFESSIONAL EXPERIENCE

Junior PHP Web Developer Dec 2021-June 2022
Hard to Find Party Supplies

- Collaborated with the director of IT to build and maintain \$1m/year eCommerce platform by performing server maintenance, writing documentation, designing web page features, managing Google AD campaigns and updating inventory of 35,000 products.
- Revised XML web page modifications from PHP to TWIG during complete server rework while utilizing the MVC design pattern, CSS, and HTML.
- Optimized legacy inventory processes with the use of CRON jobs to save 30 minutes of work time per week for current and future developers.
- Shaped the site Admin page by writing quality-of-life features for back-end users and setup network for secondary location during business expansion.

CERTIFICATIONS

CITI Program July 2023
Social and Behavioral Research - Basic/Refresher
Social and Behavioral Responsible Conduct of Research
Responsible Conduct of Research for Engineers

AWARDS

College of Sciences Dean's List – Old Dominion University Dec 2023-May 2024
BIO, GEO, CISE and OCE REU Travel Grant – \$1,200 Sept 2023
Academic Excellence Award – Tidewater Community College April 2020, Mar 2023

PROFESSIONAL SERVICE

Intelligent Ground Vehicle Competition (IGVC), *Surveyor* Jun 2024
University Accountability Board, *Member* March-Aug 2024
Association for Computing Machinery Group at ODU, *Member* Jan 2024-Present
STEM Day Expo, Wilson High School, *Volunteer Exhibitor* March 2019
National Mathematics Honor Society at TCC (MAΘ), *Member* Feb 2019-Present