

# Michael Evans

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## EDUCATION

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**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

Jan 2020-May 2023

Aug 2017-May 2019

## PUBLICATIONS

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### 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

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### 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

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### Undergraduate Research Assistant

Sept 2024-Present

ODU Vision Lab, advised by Dr. Khan Iftekharuddin

- Applied transfer learning to the VGG16 convolutional neural network (CNN) for target identification with a surveillance robot capable of identifying, tracking, and following individuals with PyTorch.

- Fine-tuned the motion planning algorithm in MATLAB for target following through tight, cluttered environments, enabling safe indoor operation previously limited to outdoor use.

#### **NSF REU 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

- First-authored *Vehicle-to-Everything (V2X) Communication: A Roadside Unit for Adaptive Intersection Control of Autonomous Electric Vehicles* as the lead researcher on a team of 7 undergraduates.
- Formulated an adaptive speed algorithm to reduce acceleration and braking by up to 75.35% for minimizing fuel consumption, and developed robust self-driving algorithms 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 REU 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 with hyperparameter tuning and expanded the project corpus from 56 to 200 data points for testing the effectiveness of the GPT-3.5-turbo model on generalizing to multiple domains.
- Calculated the precision, recall, and F1 score on zero-shot classification with the GPT-3.5-turbo model against the MSVEC dataset on two sub-tasks: stance labeling and identifying sentence rationales.

## **PROFESSIONAL EXPERIENCE**

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#### **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 weekly.
- Revised XML web page modifications from PHP to TWIG during a 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**

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#### **CITI Program**

July 2023

Social and Behavioral Research - Basic/Refresher

Social and Behavioral Responsible Conduct of Research

Responsible Conduct of Research for Engineers

## **AWARDS**

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Research Profile Highlight – Old Dominion University College of Sciences Newsletter

Nov 2024

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**

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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