TEXAS STATE VITA

I. Academic/Professional Background

A. Name and Title

Name: Dr. David L. Patrick Title: Program Faculty

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PHD	2023	Univ of Texas at San Antonio	Computer Science	
MS	2023	Univ of Texas at San Antonio	Computer Science	
BS	2016	Univ of Texas at San Antonio	Computer Science	

C. University Experience

Position	*University*	*Dates*
Assistant Professor of Instruction, Computer Science	Texas State University. San Marcos, TX, United States	September 2024 - Present
Lecturer, Computer Science	Texas State. San Marcos, TX, United States	September 2023 - May 2024
Graduate Research Assistant, Vision & Artificial Intelligence Lab	University of Texas at San Antonio. San Antonio, TX, United States	August 2019 - December 2023
Instructor of Record, Computer Science	University of Texas at San Antonio. San Antonio, TX, United States	May 2019 - August 2019
Graduate Teaching Assistant, Computer Science	University of Texas at San Antonio. San	August 2018 - May 2019

Antonio, TX,
United States

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Center Director	Mathasium of San Antonio, Mathnasium	2017 - May 2019

E. Other Professional Credentials (licensure, certification, etc.)

Investigator (NSF), COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE. (October 3, 2025 - October 3, 2029).

Researcher/FERPA (IPS), COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE. (February 27, 2024 - February 27, 2027).
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Social and Behavioral Research, COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE. (February 27, 2024 - February 27, 2026).
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II. TEACHING

A. Teaching Honors and Awards:

Award / Honor Nominee: Alpha Chi Favorite Professors for 2025, Alpha Chi.
October 28, 2025

Award / Honor Recipient: Outstanding Achievement in Teaching Award, University of Texas at San Antonio Computer Science.
2019

B. Courses Taught:

Texas State University:

CS 1428 - FOUNDATIONS OF COMPUTER SCI I

CS 2308 - FOUNDATNS OF CS II

CS 4395 - INDEPENDENT STUDY

University of Texas at San Antonio:

CS 1173 - Data Analysis and Visualization

D. Courses Prepared and Curriculum Development:

Data Mining and Machine Learning, Curriculum Development, University of Texas at San Antonio. Taught: January 2023 - May 2023.

Computer Organization, New Course, Texas State. Proposed: July 2025 - Present.

Foundations of Computer Science I Lab, Revise Existing Course, Texas State University: August 2025 - Present.

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

2. Articles:

a. Refereed Journal Articles:

Snyder, C., Montoya, K., Patrick, D. L., Stone, J., Sooby, E., & Fernandez, A. (2023). Semantic Segmentation of Micrographs for Nuclear Fuel Analysis and Degradation Quantification. *IEEE Access*. Published. Retrieved from https://ieeexplore.ieee.org/abstract/document/10287929 https://ieeexplore.ieee.org/abstract/document/10287929

3. Conference Proceedings:

a. Refereed Conference Proceedings:

Fernandez, A., Patrick, D. L., Cornell, K., & Gomez, M. (2025). Incorporating LLM Activities into Established CS1 Curriculum: An Experience Report.

Payne, E., Patrick, D. L., & Fernandez, A. (2024). Explaining Model Parameters Using the Product Space.

Payne, E., Patrick, D. L., & Fernandez, A. (2024). Visualizing-and-Generalizing-Integrated-Attributions.

Patrick, D. L., Tran, R., Geyer, M., & Fernandez, A. (2022). Reconstructive Training for Real-World Robustness in Image Classification. Retrieved from https://openaccess.thecvf.com/content/WACV2022W/DNOW/papers/Patrick_Reconstructive_Training_for_Real-World_Robustness_in_Image_Classification_WACVW_2022_paper.pdf https://openaccess.thecvf.com/content/WACV2022W/DNOW/papers/Patrick_Reconstructive_Training_for_Real-World_Robustness_in_Image_Classification_WACVW_2022_paper.pdf

B. Works Not in Print:

2. Invited Talks, Lectures, and Presentations:

Patrick, D. L., UTSA Computer Science Dissertation Defense, "Leveraging Explainability to Increase Efficiency and Transparency in Computer Vision." (2023).

Patrick, D. L., UTSA Computer Science Dissertation Proposal, "Leveraging Explainability to Increase Efficiency and Robustness in Computer Vision." (2022).

Patrick, D. L., MIDAS Future Leaders Summi, "Leveraging Explainability to Increase Robustness in Computer Vision," University of Michigan, Ann Arbor, MI, United States. (2022).

Patrick, D. L., Geyer, M., Workshop for Dealing with the Novelty in Open Worlds, "Reconstructive Training for Real-World Robustness in Image Classification," IEEE/ CVF Winter conference on Appli- cations in Computer Vision (WACV), HI, United States. (January 2022).

D. Scholarly / Creative Fellowships, Awards, Honors:

Award / Honor Recipient: MIDAS Future Leader Award, University of Michigan. 2022

Fellowship Recipient: MSIPP CONNECT Fellow Award, DOE NNSA UTSA. 2020

IV. SERVICE

A. Institutional

3. Department/School:

Member, GIA Search Committee. (October 2025 - Present).

Member, Embracing AI Committee. (September 1, 2025 - Present).

Member, CS Undergraduate Committee. (September 2024 - Present).

Chair, Undergraduate Credit Transfer Coordinator. (October 1, 2023 - Present).

Member, Academic Assessment Committee. (September 1, 2023 - September 1, 2024).

B. Professional:

Reviewer / Referee, Winter Conference on Applications of Computer Vision. (2024).

Reviewer / Referee, Winter Conference on Applications of Computer Vision. (2023).

D. Organization Memberships:

Association for Computing Machinery (ACM). (2021 - Present).

Institute of Electrical and Electronics Engineers (IEEE). (2021 - Present).

The Computer Vision Foundation (CVF). (January 2021 - Present).