Shawhin Talebi

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Website: **https://shawhint.github.io/** | LinkedIn: **https://www.linkedin.com/in/shawhintalebi/**

EDUCATION

The University of Texas at Dallas — *Anticipated May 2022*
PhD, Physics — **GPA 3.77**
The University of Texas at Dallas — December 2019
M.S., Physics — **GPA 3.82**
The University of Texas at Dallas — May 2017
B.S., Physics — **GPA 3.52**

TECHNICAL SKILLS

Tools: Python, MATLAB, SQL, Excel, Keynote, bash/zsh, GitHub
Certifications*:* Data Structure & Algorithms (Udemy), Tableau (Udemy)

WORK EXPERIENCE

Research Assistant — **December 2018 - Present**
The University of Texas at Dallas (Department of Physics) - Richardson, Texas

- Orchestrated multiple team projects focused on deployment of a real time **Python** based biometrics application, unveiling immediate insights that were previously inaccessible
- Developed empirical machine learning model to predict pupil size from full spectrum of visible light using **MATLAB**, which lead to first author publication and outperformed all previous studies
- Presented research at university poster competition, which resulted in 3rd place award

Business/IT Manager — **May 2017 - December 2018**
Palomino Motors - Dallas, Texas

- Analyzed marketing and sales reports to inform inventory acquisition, which resulted in a 50% decrease in average inventory age
- Evaluated costs of lead providers through close rate analysis, which led to over $2500 in monthly savings

TALKS & OUTREACH

Guest Lecture: Dimensionality Reduction - *Big Data and Machine Learning for Scientific Discovery (PHYS 5336), Spring 2021*
Guest Lecture: Fourier and Wavelet Transforms - *Scientific Computing (PHYS 5315), Fall 2020*
A Brief Introduction to Optimization - *GSP Seminar, Fall 2019*
Mad Scientist Series - *The Heights Church, Fall 2019*
Weeks of Welcome Poster Competition - *UTD, Fall 2019*
A Brief Introduction to Networks - *GSP Seminar, Spring 2019*
Modeling Autonomic Pupillary Responses from External Stimuli Using Machine Learning - *GSP Seminar, Spring 2019*

PUBLICATIONS

1. **Talebi S**., Lary D.J., Wijeratne L. OH., and Lary, T. Modeling Autonomic Pupillary Responses from External Stimuli Using Machine Learning (2019). DOI: 10.26717/BJSTR.2019.20.003446
2. Wijeratne, L.O.; Kiv, D.R.; Aker, A.R.; **Talebi, S**.; Lary, D.J. Using Machine Learning for the Calibration of Airborne Particulate Sensors. *Sensors* 2020, *20*, 99.
3. Lary, D.J.; Schaefer, D.; Waczak, J.; Aker, A.; Barbosa, A.; Wijeratne, L.O.; **Talebi, S**.; Fernando, B.; Sadler, J.; Lary, T.; Lary, M.D. Autonomous Learning of New Environments With a Robotic Team Employing Hyper-Spectral Remote Sensing, Comprehensive In-Situ Sensing and Machine Learning. Preprints 2021, 2021020454 (doi: 10.20944/preprints202102.0454.v1).

AWARDS AND HONORS

2nd Annual Weeks of Welcome Poster Competition – 3rd Place Winner — August 2019
Outstanding Undergraduate Student – Nominee — April 2017
Student Leader of the Year – Nominee — April 2017