

LEVI D. MCCLENNY

@ levimcclenny@tamu.edu

📞 918.232.7131

📍 College Station, TX

🌐 people.tamu.edu/~levimcclenny

🔒 DoD Secret Clearance

EXPERIENCE

Research Assistant

US Army Research Laboratory - ARL South Campus

📅 May 2019 – Present

📍 Aberdeen Proving Ground, MD

- Working remote from College Station, TX as an ORAU Journeyman
- Research Assistant in the Vehicle Technology Directorate (VTD) at the Army Research Lab working on applying Deep Learning (CNNs, GANs, VAEs, etc) to microscale material images to better understand micro-level interactions in material systems with the goal of material fatigue estimation in future vehicles and aircraft
- Responsible for bringing aviation and informatics expertise into a large-scale maintenance optimization project for the Joint Artificial Intelligence Center (JAIC) involving analysis of over 27 TB of health monitoring system data for the H-60 platform
- Areas of expertise include multi-GPU accelerated deep CNNs and GANs, as well as other deep and machine learning techniques

UH-60L/M Blackhawk Pilot and Platoon Leader

US Army Reserve

📅 August 2017 – Present

📍 Conroe, TX

- Accountable for 20 personnel, planning, training, and maintaining standardization for all pilots
- Directly responsible for 5 UH-60L aircraft, associated maintenance, and training operations
- Actively liable for over \$50 million in US Army assets - including aircraft and ground equipment

🏆 Air Assault Badge (Distinguished Honor Graduate, class rank 1/220)

LEADERSHIP

Texas A&M Student Regent

Texas A&M University System Board of Regents

📅 May 2019 – Present

📍 College Station, Texas

- Appointed by the Governor of Texas to serve as the sole student member to the Texas A&M Board of Regents - responsible for advocating for 167,000 students across 11 individual campuses
- Directly provide oversight to the Texas A&M University System's budget of ~\$5 billion in revenue and expenditures, reviewing proposals as fit for the individual campuses in the system

Texas A&M Student Body Vice President

Texas A&M Student Government

📅 May 2015 - May 2016

📍 College Station, Texas

- Responsible for advocating for 68,000+ graduate and undergraduate students
- Co-founded a student organization to rent free business formal clothing to underprivileged students at all campuses in the system

TECHNICAL SKILLS

- </> **Deep Learning** – Python, Keras, multi-GPU Tensorflow
- </> **Machine Learning** – Scikit-Learn, RAPIDS (cuML, cuDF)
- </> **Dev. Environments** – Docker, Nvidia-Docker (GPU), Jupyter
- </> **Statistics** – R

SOFTWARE

- </> Author/manager of the open source package R:Boolfilter, available on CRAN

EDUCATION

Ph.D. in Electrical Engineering (in progress)

Machine Learning and Artificial Intelligence

🏛️ Texas A&M University

📅 May 2021 (Tentative)

📍 College Station, Texas

- Completing additional certificates in *Statistics and Materials, Informatics, and Design*
- 🏆 2018 recipient of the Buck Weirus Spirit award for outstanding service to the Texas A&M campus community.

M.S. in Electrical Engineering

Genomic Signal Processing

📅 August 2016

📍 College Station, Texas

B.S. in Electrical Engineering Engineering

GPA - 3.54

📅 May 2015

📍 College Station, Texas

🏆 Cum Laude, Dean's List

SELECT PUBLICATIONS

"Utilizing Convolutional Neural Networks for Prediction of Process and Material Parameters from Microstructural Images"

Richard Couperthwaite, McClenny, Levi D., Ulisses M. Braga-Neto, Raymundo Arroyave.

📄 2020 Annual Meeting of The Minerals, Metals & Materials Society (TMS)

📅 In Review

"Semi-supervised Learning Approaches to Class Assignment in Ambiguous Microstructures"

Kunselman, C.J., McClenny, Levi D., Vahid Attari, Ulisses M. Braga-Neto, Raymundo Arroyave.

📄 Acta Materiala

📅 November 2019

"Boolean Kalman Filter with Correlated Observation Noise"

McClenny, Levi D., Mahdi Imani, and Ulisses M. Braga-Neto.

📄 2017 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

📅 June 2017

"BoolFilter: an R package for estimation and identification of Partially-Observed Boolean Dynamical Systems"

McClenny, Levi D., Mahdi Imani, and Ulisses M. Braga-Neto.

📄 BMC Bioinformatics

📅 November 2017