Tyler Ganter

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EXPERIENCE

Machine Learning Engineer — Sandia National Lab
September 2020 – PRESENT | Albuquerque, NM

⇒ Conducting research and developing tools for deep learning applications across multiple projects in domains including text classification, object detection, 3D volume segmentation and model trustability.

Computer Vision Engineer — Voxel51
January 2019 – August 2020 | Ann Arbor, MI

⇒ Led a team of 5 to train and productionize deep models for automatic detection and classification of objects in road scenes

⇒ Spearheaded the design and development of a NoSQL database backed python package for efficient exploration and management of large-scale ML datasets

Computer Research Engineer — Sandia National Lab
June 2016 – June 2017 | Albuquerque, NM

⇒ Developed a novel approach to seismic event detection which nearly tripled the true positive:false alarm ratio

⇒ Led a large scale study on the efficacy of this approach, training and evaluating an ensemble of 50k weak classifiers

PUBLICATIONS

Adventures of Gallivanter Ganter — gnarwall.org
2017 – 2018 | 26 countries in 4 continents

⇒ A personal account of seeing the world for the first time

Alternative Null Hypothesis Correlation: A New Approach to Automatic Seismic Event Detection
Ganter et al., BSSA 2018

⇒ This novel method creatively applies supervised learning to traditional techniques for dramatically improved results

Harmonic Encoding In Cochlear Implants
Ganter, University of Washington 2016

⇒ Overview and guide to a novel technique for encoding temporal fine structure in a neuroprosthetic

EDUCATION

M.S. Electrical and Computer Engineering
University of Washington
2014 – 2016 | Seattle, WA

GPA: 3.7/4.0

B.S. Electrical Engineering
University at Buffalo
2009 – 2013 | Buffalo, NY

GPA: 3.9/4.0

SKILLS

Machine Learning
Tensorflow   SQL
GCP   Scikit-learn
C++   LaTeX
Python   Docker
Computer Vision
Audio Signal Processing   Agile
Deep Learning   Keras
Matlab   Javascript   Seismology

LANGUAGES

English	—	Native
Italian	—	Proficient
German	—	Intermediate

PASSIONS

Climbing	Travel
Music	Break Dancing