

# Tyler Ganter

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🔄 github.com/tylerganter

## 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, 3D volume segmentation and model trustability

### Instructional Specialist – 2U, Inc.

November 2021 – PRESENT | Remote

⇒ Instructing students for Data Analytics and Visualization Bootcamp Program in collaboration with the University of Wisconsin

### 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

## PUBLICATIONS

### Adventures of Gollivanter 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 LaTeX SQL  
GCP Javascript Linux  
NLP Gitlab CI/CD  
Python Agile  
C++ Computer Vision  
Uncertainty Quantification Docker  
Deep Learning Seismology  
Scikit-learn Keras  
MLOps Audio Signal Processing

## LANGUAGES

English	–	Native
Italian	–	Proficient
German	–	Intermediate

## PASSIONS

Climbing		Travel
Music		Break Dancing