

TUCKER ARRANTS

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GitHub ♦ LinkedIn ♦ Kaggle

EDUCATION

Chapman University, Orange, CA

Bachelors of Science with Honors, Physics

May 2020

Magna Cum Laude

Institute for Quantum Studies Undergraduate Research and Creative Activity Award

Bachelors of Arts with Honors, Philosophy

Magna Cum Laude

Mike W. Martin Award of the Year in 2018

TECHNICAL SKILLS

Programming: Python, R, Git, SQL, MATLAB

Libraries: NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch

Software: Tableau, Power BI, Google Analytics, Microsoft Excel

PROFESSIONAL EXPERIENCE

Z by HP & NVIDIA

Global Data Science Ambassador

August 2020 - Present

- Partnered with Z by HP & NVIDIA to promote collaboration in the data science community around GPU computing hardware and software through Kaggle and other social media platforms like Medium

Pacific Life

Data Analyst Intern

May 2020 - November 2020

- Built dashboards with Google Analytics and Power BI to track activity on the company's intranet sites
- Increased efficiency of reporting processes by automating data wrangling and visualization with Python and Power BI
- Applied natural language processing techniques to feedback responses to evaluate the effectiveness of cultural change initiatives (LDA topic modeling and n-gram analysis)

INDIVIDUAL PROJECTS

Predicting RNA Degradation Rates with RNNs

github.com/TuckerArrants/open-vaccine

- Designed a recurrent neural network to predict the degradation rates at various locations along a RNA sequence to help researchers develop and deploy a COVID-19 mRNA vaccine

Melanoma Detection with EfficientNets on TPUs

github.com/TuckerArrants/computer-vision

- Trained a deep CNN to predict the probability that a given mole is malignant or not based on an image
- Performed all training and image augmentation on tensor processing units and successfully trained a model on over 2 million images in under 3 hours

CERTIFICATES AND PROFESSIONAL DEVELOPMENT

- **TensorFlow Developer Professional Certificate** by deeplearning.ai on *Coursera* [*Verify [here](#)*]

July 2020

- **Deep Learning Specialization** by deeplearning.ai on *Coursera* [*Verify [here](#)*]

July 2020

- **Machine Learning** by Stanford on *Coursera* [*Verify [here](#)*]

June 2020