OLIVER TERRELL

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Portfolio Website

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EDUCATION / COURSEWORK

- Carnegie Mellon University
- Mellon College of Science
- B.S. Neuroscience | May 2019

(15-110) Principles of Computing
(85-419) Parallel and Distributed Processing
(03-363) Systems Neuroscience

EXPERIENCE

- **Uncommon Core | Developer | Summer 2020 - Current**
  Working with founder and CEO of Uncommon Core, Jacob Hoffman, wrote extensive automated testing functions in Python using Selenium that allowed our team to move cleanly and quickly through developmental phase. Also coding in php to work with MySQL to allow our web app to interface with main database. Utilizing Kubernetes to collaborate swiftly on the cloud while social distancing measures are enforced.

- **Gittis Lab | Research Assistant | Mapping Cerebellum to Basal Ganglia | Spring 2018**
  Applied optogenetic methods and paw tracking algorithms to establish neural link between cerebellum and basal ganglia in mice. Worked alongside Ph.D. students in a first-of-its-kind study to prove previously theorized synaptic link between two brain structures responsible for motor skill learning.

- **Neural Network Encoding | Carnegie Mellon University | Spring 2018**
  In the class Parallel and Distributed Processing in the Computer Science department at Carnegie Mellon, a hands-on approach was taken to build and test multiple different artificial intelligence neural networks. The software Lens was used to create various networks that worked with small-batch data sets, trained over varying epochs and with varying number of hidden, input, and output units to understand the nature of artificial intelligence and how one can design and program a network to produce desired outcomes based on novel inputs after training on a standard set.

SKILLS

- **IBM® SPSS | Data Analysis | Kubernetes | Neural Networks | Python | Scikit-Learn | Selenium | Machine Learning**

INTERESTS

- **Co-Author | SQUARE1™ Book | Neuromotor Physical Therapy and Training System | Summer 2019 – Current**
  Co-authoring book with founder of Square1™ system outlining the science behind a neuromotor approach to physical therapy, athletic training, and physical health based on the layered encoding of the motor movement network in the human body.

- **President | Archery Club | Carnegie Mellon University | Fall 2017 – Fall 2018**
  Petitioned to begin archery club at Carnegie Mellon University, secured funding for equipment. Organized and led group outings to local archery range with co-chair.

- **Winning Team | Entrepreneurship Practicum | Carnegie Mellon University | Fall 2012**
  In an entrepreneurship class taught at Carnegie Mellon by the famed R.F. Culbertson, my team, led by Meera Lakhavani, used various methods to land first place in the class, accruing winnings of over $10,000 cash from an initial stipend of $100 after mergers with other teams. We engaged in various opportunities including, but not limited to, T-shirt sales, operation of a food truck, offering "free money" for incentivized signups, and delivering presentations both on and off campus.

ATHLETICS

- **Carnegie Mellon University | Varsity Track & Field**

- **Carnegie Mellon University | Varsity Football**