Luke Lloyd **Longren**

ADDRESS

PHONE

EMAIL

Skills

LANGUAGES

Native
English
Conservant
German

PROGRAMMING

Proficient
Python, Git, TeX
Familiar
C++, MATLAB, R,
HTML/CSS/JS

MACHINERY

Large Vehicles **(3 yrs.)**
Fork Loaders **(1 yr.)**
Pallet Carriers **(1 yr.)**

LICENSES

Driver (US, DE)
Private Pilot (FAA)
Amateur Radio (FCC)

FOCUS POINTS

Detail oriented
Computer proficient
Electronics experience
Logistics knowledge
Friendly & Mindful

updated:
Apr. 2024

Employment History

OCEANOGRAPHIC DATA SPECIALIST — JAN. 2024 – PRESENT
Research Corporation of the University of Hawai'i | Honolulu, HI, USA

Supports, maintains, and develops acquisition and processing software and installation procedures. Trains technicians and scientists on using acquisition software and processing Acoustic Doppler Current Profiler (ADCP) data. Manages, installs, maintains, supports, and upgrades shipboard ADCP data systems on UNOLS, NOAA, and foreign research ships.

RESEARCH ASSOCIATE — FEB. 2023 – NOV. 2023
Leidos | McMurdo Station, Antarctica

Supported a variety of scientific research projects in the physical and astrophysical sciences over the austral winter at McMurdo Station. Duties included working with advanced scientific instrumentation, assisting in data collection, and carrying out research protocols for National Science Foundation (NSF) grantees and other groups (e.g., military, NOAA).

AIR TRANSPORTATION SPECIALIST — OCT. 2022 – FEB. 2023
Amentum/PAE | McMurdo Station, Antarctica

Handled cargo in Antarctica for the austral summer. The position involved movement of all supplies in and out of the station via aircraft, most of which were military. Responsibilities included the quality control of every aspect in cargo and supply handling, ensuring tasking was carried out safely and efficiently, and operation of large equipment on snow and ice.

VISITING SCHOLAR — JUL. 2021 – SEP. 2022
Humboldt University of Berlin | Berlin, BE, DE

Investigated neuromusculature in the elephant during and after my MSc thesis as a guest researcher. Initially explored automatic segmentation of individual elephant trunk muscles, later leading three other students in manual tracing the musculature. Analyzed the reconstruction to provide insight into the relationship between elephant trunk and brain.

RESEARCH ASSISTANT — NOV. 2020 – SEP. 2021
DIfE - Decision Neuroscience and Nutrition | Potsdam, BB, DE

Analyzed experimental data stemming from the biological reaction in humans to various nutritional stimuli. Specifically, led a project to inspect statistically the diurnal response of amino acid levels in blood plasma to differing food composition.

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Education

MSC, COMPUTATIONAL NEUROSCIENCE — OCT. 2019 – MAR. 2022
Technical University of Berlin | Berlin, BE, DE

Bernstein Center for Computational Neuroscience
Thesis: Automatic Segmentation of Elephant Trunk Muscles

BSC, PHYSICS — AUG. 2015 – MAY 2019
Fort Hays State University | Hays, KS, USA

Kansas Academy of Mathematics and Science
Minor, Mathematics

Publications

[1] **L. Longren** & L. Eigen *et al.*, "Dense reconstruction of elephant trunk musculature", *Current Biology*, vol. 33, no. 21 (2023).

[2] I. Rebollo, M. Schmidt, **L. Longren**, and S. Park, "Influence of visual food cues on autonomic activity and craving", *Biological Psychology*, vol. 165, p. 108197 (2021).