

CLYDE JAMES FELIX

1152 Manuwa Drive, Honolulu, Hi, 96818
(808)-546-9976 \diamond felixclyde@gmail.com \diamond Github:cjfelixx

EDUCATION

University of Hawai'i at Mānoa, Hawai'i

August 2016 - May 2020

Bachelors of Science in Electrical Engineering
Department of Electrical Engineering

RESEARCH EXPERIENCE

Tokyo University of Agriculture & Technology, Japan

Advisor: Dr. Toshihisa Tanaka

Research on Brain-Computer Interface binary classification model using different types of Motor Imagery settings using Matlab. The model used a Common Spatial Pattern filter and Linear Discriminant Analysis method.

Smart Campus Energy Lab, Hawai'i

Advisor: Dr. Anthony Kuh

Design and develop accurate and reliable weather sensor modules. EAGLE PCB was used to construct the circuit and C++ to operate tasks such weather data collection and wireless data transmission into a web server.

WORK EXPERIENCE

UH Mānoa Department of Electrical Engineering, Hawai'i

January 2020 - Present

Undergraduate Teaching Assistant

Teaching Assistant for EE 491D, Linear Algebra & Machine Learning. Teach/lead a general Electrical Engineering laboratory section (as assigned), hold office hours, grade lab reports, prepare and grade quizzes OR tutor students in a general electrical engineering room (as assigned).

UH Mānoa Single Volume Scatter Camera, Hawai'i

May 2019 - Present

Research Assistant

Research on a multipurpose elementary particle detector, aiming to detect not only neutrinos but also fast/thermal neutrons. Experimental analysis is performed using C++ and Python.

UH Mānoa Department of Mathematics, Hawai'i

June 2019 - August 2019

Research Assistant

Research on the lower bounds of automatic complexity using Python to experiment with mathematical conjectures on the VC-dimension shattering as well as the Fibonacci/Tribonacci sequences.

PUBLICATIONS

R. Islam, C. Felix, T. Tanaka (2019). *Enhancement and Detection of Event-Related Desynchronization in EEG Signals based on Action Observations*. ICASSP 2020.

B.K. Hanssen, C. Felix, S.Y. Kim, E. Lamb, and D. Takahashi (2019). *Vapnik-Chervonenkis-dimensions of non-deterministic finite Automata for words of equal length*. ISAIM 2020.

B.K. Hanssen, C. Felix, S.Y. Kim, E. Lamb, and D. Takahashi (2019). *Automatic Complexity of Fibonacci and Tribonacci words*. Unpublished.

TECHNICAL STRENGTHS

Unix, Python, Matlab, C/C++, PCB CAD

EXTRACURRICULAR ACTIVITIES

IEEE Student Hawai'i branch

Engineer's Council at University of Hawai'i

Hawai'i Annual Code Challenge 2019 Hackathon

Mind Innovation and Design 2019 competition

AWARDS & SCHOLARSHIPS

Dean's list, 2016

Hawai'i B Plus Scholarship, 2016

Fred and Annie Chan Scholarship Fund for Electrical Engineering, 2018

Ronald N. S. Ho and Ann T. Ho Scholarship Endowment in Electrical Engineering, 2019

RESEARCH INTEREST

Signal & Image processing, Computer Vision, Data science, Machine learning, Neural networks.