

Tai Kao-Sowa

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EDUCATION

Stanford University

BS Candidate in Electrical Eng.

GPA: 3.74

Relevant Coursework: Convex Optimization, Linear Dynamical Systems, Feedback Control Design, Translational Bioinformatics, Introduction to Statistical Signal Processing

Stanford, CA

Expected Graduation: December 2020

Thomas Jefferson High School for Science and Technology

Biotechnology Research Lab

GPA: 4.45

Alexandria, VA

September 2012-June 2016

EXPERIENCE

Span.io

Systems Engineering Intern

Jakarta, Indonesia

April 2020-Present

- Currently working as a general systems engineer for Span.io. Span is focused on making home energy connected and intuitive with a smart electrical panel that makes it easier to adopt clean energy and optimize power.

IBEKA

Electrical Engineering Intern

Jakarta, Indonesia

Fall 2018-Summer 2019

- Developed remote monitoring system for rural micro hydroelectric power plants and presented work at Stanford's Symposia of Undergraduate Research and Public Service.
- Circuit simulation and design, power electronics, and in-field implementation and testing.

Miroculus Inc.

Electrical Engineering Intern

San Francisco, CA

Summer 2018

- Worked on digital microfluidics automation: circuitry, control systems, firmware.

Neural Prosthetic Systems Lab

Research Assistant

Stanford, CA

Spring 2018

- Aided in creating an autonomous system designed to train reaching tasks for BMI experiments with nonhuman primates.
- Worked in Simulink and C under Dr. Michaels in the Stanford Neural Prosthetics Systems Lab.

Stanford Integrated Biomedical Systems Lab

REU Intern

Stanford, CA

Summer 2017

- Worked on chip design for wireless hippocampal engram circuit neuron stimulation. Potential for memory recovery and reconsolidation in amnesic mice. Worked with Cadence circuit simulations.
- Presented at Stanford's REU poster session. Graduate advisor was Yi Liu under Professor Ada Poon.

TJHSST Biotechnology Lab & Georgetown AVRIC Lab

Original Researcher

Alexandria, VA

September 2014 – June 2016

- Investigated the effect of Ara h2 peanut allergen on PHA-induced canine dendritic cells as a possible pathway to atopic dermatitis via errant activation.
 - Investigated the effect of folic acid on Treg cell induction in vitro as a possible natural treatment for autoimmune disease.
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Other

- Stanford Daily Contributing Writer, 2019-2020
- Stanford Student Space Initiative, microfluidics biology team 2017-2018.
- Stanford Jiu Jitsu President 2018-2019