# Tai Kao-Sowa

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## EDUCATION

**Stanford University**                                                                                          **Stanford, CA**
*BS Candidate in Biocomputation*                                          *Expected Graduation: June 2020*
*Prospective Minor in Electrical Engineering*
*GPA: 4.09*
Relevant Coursework: *CS106A&B/CS107E/CS41 (Java, C++, C, Python), Introduction to Circuit Modeling and Analysis Medical Device Innovation, Multivariable Calculus for Engineers*

**Thomas Jefferson High School for Science and Technology**                    **Alexandria, VA**
*USA Biology Olympiad Semifinalist, National Merit Semifinalist*          *September 2012-June 2016*
*GPA: 4.45*
Relevant Coursework: *DNA Science, Neurobiology, Organic Chemistry, Analog Electronics, Multi/Linear*

## EXPERIENCE

**TJHSST Biotechnology Lab**                                                                       **Alexandria, VA**
*Original Researcher*                                                                  *September 2015 – 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.
- Conducting original research with Hasan Ahmad under Dr. Cobb.

**Georgetown AVRIC Lab**                                                                       **Georgetown, DC**
*Original Researcher*                                                            *June 2015 – September 2015*
- Investigated the effect of folic acid on Treg cell induction in vitro as a possible natural treatment for autoimmune disease.
- Conducting original research sponsored by Dr. Bellanti under Georgetown's department of Microbiology and Immunology.

**Georgetown AVRIC Lab**                                                                       **Georgetown, DC**
*Research Assistant*                                                            *June 2014 – September 2014*
- Interned in Dr. Joseph Bellanti's lab investigating the development and clinical application of interferon gamma release assays (IGRAs) on Tuberculosis.

## SERVICE

**Lung Chuan Fa Kung-Fu**                                                                             **McLean, VA**
*Instructor, Third Degree Black Belt*                                        *March 2015 – August 2016*
- Taught various classes of students of all skill levels and ages.
- Developed lesson plans, overall training goals, assisted in demonstrations.
- Taught self-defense at Stanford SPLASH program in 2016

**TJHSST Medical Society**                                                                         **Alexandra, VA**
*Co-President*                                                                *September 2015 – August 2016*
- Created lectures, lesson plans, and dissection activities for club of 50+ members.
- Worked with team of 6 people to manage administrative duties and develop club culture.

## SKILLS

- Java, Python, C++, MATLAB, Arduino Programming
- Flow cytometry, Buffy coat purification, qPCR, Western/Southern Blotting, DNA computational analysis
- Electrophysiology & Aplysia californica dissection

## AWARDS

- USA Biology Olympiad Semifinalist
- National Merit Semifinalist
- 2nd in class-wide Arduino robot maze competition 2013

## ACTIVITIES
- Stanford Robotics Club (working on microcontroller programming & CAD design)
- Stanford Symbolic Systems Society
- Stanford Club Swim Team
- Stanford Brazilian Jiu Jitsu
- 2012-2016 Varsity High School Tennis
- 2012-2016 Varsity High School Swim