

KENSEI KISHIMOTO

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EDUCATION

Bachelor of Science in Biochemistry

Minor in Bioinformatics

Overall GPA: 3.94

Expected June 2020

University of California, Los Angeles

Sentinel Secondary School

Vancouver, Canada

July 2016

RESEARCH EXPERIENCE

Hoffmann Lab at University of California, Los Angeles

Undergraduate Researcher

June 2017-Present

Los Angeles, CA

- Developed a statistical analysis pipeline for differential gene expression analysis using edgeR
- Visualized and interpreted RNA-seq data using R and various R packages such as ggplot2 and pheatmap
- Performed a ChIP-seq experiment
- Analyzed and interpreted data from ChIP-seq experiments using softwares such as deepTools, genome browser, and HOMER
- Contributed to making an automated ChIP-seq analysis pipeline using shell script
- Designed experiments to investigate compositions of stimulus-inducible transcription factors binding at specific promoters
- Mentored and guided an undergraduate on computational analysis through weekly meetings
- Presented research updates at weekly meetings
- Optimized ChIP protocols for new antibodies

RESEARCH SKILLS

Computer Languages

R, C++, Shell Scripting, Python

Computational Analysis

ChIP-seq, RNA-seq

Experimental Techniques

ChIP-qPCR, ChIP-seq, Cell Culture, Geno Typing

POSTER/ORAL PRESENTATIONS

American Physician Scientist Association Annual Meeting

Undergraduate Research Intern

Expected April 2019

Chicago, IL

- Abstract Submitted: "Type-I interferon induces temporally distinct activities of two STAT1-containing transcription factor complexes"

Bruins-In-Genomics Summer Research Program

Undergraduate Research Intern

June 2018 - August 2018

UCLA

- Poster: "Studying RelB's Role as a Negative Regulator of IFN- β by ChIP-seq Analysis"

Undergraduate Research Poster Day

May 2018

- Poster: "Structure-Function Analysis of NF- κ B/RelA in Activating Endogenous Target Gene Expression"

Bruins-In-Genomics Summer Research Program

June 2017 - August 2017

Undergraduate Research Intern

UCLA

- Poster: "Differential Gene Expression Analysis of an NF κ B/RelA Transactivation Domain Mutant"

Students on the Beamline project

May 2016

*High school intern**Saskatchewan, University of Saskatchewan*

- Oral Presentation: "Chemical mechanism of thermotolerance in pea pollen using mid-infrared spectroscopy"

VOLUNTEERING AND LEADERSHIP

Bruins Fighting for Pediatric Cancer (BFPC)

Sep 2016-Present

Hospital Volunteering Coordinator

UCLA

BFPC raises awareness for pediatric cancer, by fundraising money, volunteering, and hosting educational events. Our motto is "Never letting cancer cloud the joy of being a kid"

- Volunteered and interacted with patients and their families at both Pediatric Hematology and Oncology outpatient and inpatient units at UCLA Ronald Reagan Hospital over 150 hours
- Managed the volunteering programs for 30 undergraduate students, working closely with ChildLife specialists at UCLA Ronald Reagan Hospital
- Recruited 15 new volunteers for 2018-2019 academic year via written application and interview processes
- Fundraised \$6,504 collectively as a club for our annual event Cranes for Cancer to donate money to Alex's Lemonade Stand Foundation, which funds pediatric cancer research
- Hosted arts and crafts and movie nights Ronald McDonald House in downtown LA

Glendale Learning Program

Jan 2017-Present

Curriculum Director and Finance Director,

UCLA

Glendale Learning Program promotes educational equity through personalized tutoring and mentorship. We have over 20 volunteers and work with over 30 middle school students.

- Tutored and mentored middle school students who come from immigrant families and underprivileged background every Saturday
- Designed weekly quizzes, based on California education standard, for the students to assess improvements in their learning
- Acquired \$8,857 by successfully applying to a UCLA organizational funding body for 2018-2019 academic year
- Planned educational science activities to foster their interests in learning

REFERENCES

Professor. Alexander Hoffmann, Ph.D.

Asher Professor of Microbiology

Department of Microbiology, Immunology, and Molecular Genetics

University of California, Los Angeles

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