

Christopher H. Kan

221 Weeks Ave #2, Santa Cruz, CA, 95060
ckan91@gmail.com | 626-840-0088 | christopherkan.com

Work Experience

Graduate Researcher and UC Regents' Fellow 2013-2017
UC Santa Cruz, Santa Cruz, California

- Developed python, R, and bash scripts to detect introgression events in the whole genome data of nine species
- Designed novel protocols to detect introgression events at the gene level while also quantifying genomic size of events
- Used computing grid resources to effectively process terabytes of data

Rusack Coastal Studies Research Fellow 2012-2013
Bowdoin College Brunswick, Maine

- Conducted genetic population structure analysis of *Alosa* (River Herring) in Midcoast Maine.
- Organized and led a team of researchers to conduct three months of field collections across 400 miles of coast line
- Utilized advanced simulation protocols to classify hard to identify hybrids from purebred samples
- Conveyed results of research to state officials to help statewide management efforts for these threatened species
- Authored a publication resulting from research, submitted and in review

President of Local Bike Share 2011-2013
Brunswick, Maine

- Rescued a financially failing organization months from closing turning it into an enduring community institution
- Created a new business model that significantly boosted operational efficiency resulting in positive cash flow
- Hired all new staff and reshaped organizational culture to focus on customer service

Service Activities

Student Observer to the UC Board of Regents' Committee on Finance 2014-2015

- Negotiated a key part of a \$28.5 billion budget during a critical budget negotiation year
- Built fruitful working relationships with board members and appointed officials
- Collaborated with stakeholders statewide to develop effective response to the budget crisis
- Navigated divisive political disagreements to build consensus between students, the university, and the state

UCSC Academic Senate Committee on Teaching 2014-2016

- Collaborated with faculty to create a plan for a teacher training center to enhance learning at UCSC. UCSC was the only UC campus at the time that lacked a teacher training center.
- Helped convince key administrators and stakeholders to allocate \$1 million to the center

Publications and Awards

[Accepted Publication] "Genetic Population Structure and Accuracy of Morphological Assessment in *Alosa aestivalis* and *A. pseudoharengus*" Kan, C., et al. *Northeastern Naturalist*. 2017

Best Presentation at the Keck Graduate Institute ASCB Workshop 2016
Rapid Prototyping of a 3D Printed Artificial Hip

- Developed business plan that included market, scientific, production, ethical, and regulatory analysis of the implant
- Created presentation deemed the best in the competition due to its thoroughness, synthesis of facts, and "*clear demonstration of superior teamwork.*"

Graduate Student Leadership Certificate 2015

Education

UC Santa Cruz
M.A. Ecology and Evolutionary Biology
[Genomics and Programming Focus]
2013-2017 (In Progress)

Keck Graduate Institute
Certificate in Bioscience Management
[MBA Style Program]
2016-2017

Bowdoin College
B.A Biology [Honors] and
Anthropology
2009-2013
