Alexis M. Thornton

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LDUCATION		
PhD in Biomolecular Engineering and Bioinformatics		
University of California, Santa Cruz		
BS in Biology	2011-2015	
University of Florida		
RESEARCH EXPERIENCE		
Junior Research Specialist. University of California, Santa Cruz	2016-2017	
Dr. Angela Brooks, Department of Biomolecular Engineering		
Research Assistant. University of Florida	2015-2016	
Dr. Todd Golde, Center for Translational Research in Neurodegenerative Diseases		

PUBLICATIONS

Huang HH, Ferguson ID, **Thornton AM** et al. Proteasome inhibitor-induced modulation reveals the spliceosome as a specific therapeutic vulnerability in multiple myeloma. Nature Communications 11, 1931 (2020). https://doi.org/10.1038/s41467-020-15521-4

Thornton AM et al. eVIP2: Expression-based variant impact phenotyping to predict the function of gene variants. bioRxiv. December 2019. https://doi.org/10.1101/872028

AWARDS AND HONORS

TIVINDO TIND HONORO	
Eugene Cota Robles Fellowship	2017-Present
Bill H. James Scholarship for Aspiring African American Engineers	2019
Nominated for HHMI Gilliam Fellowship	2019
NIH T32 Training Grant Award	2018-2019
NIH Post-Baccalaureate Research Education Program Fellowship	2016-2017
Florida Bright Futures Scholarship	2011-2015
ALPHA EPSILON DELTA – UF's pre-health honor society	2013-2015
ORGANIZATIONS	
ICGC Accelerating Research in Genomic Oncology Consortium	2020-Present
UCSC Genomics Institute Diversity Committee	2020-Present
The Black Women in Computational Biology Network	2020-Present
Alpha Epsilon Delta: University of Florida's pre-health honor society	2013-2015
TALKS	
The Black Women in Computational Biology Network	Jan. 2021
Northern California Computational Biology Symposium in Santa Cruz, California	Oct. 2017
POSTERS	
The Bay Area RNA Club Conference	Dec. 2020
UCSC Program in Biological Sciences and Engineering Research Conference	Sept. 2020
Biology and Mathematics Bay Area (BaMBA) annual meeting in Santa Cruz, California	Dec. 2019
European Molecular Biology Lab (EMBL) Cancer Genomics Conference in Heidelberg, Germany	Nov. 2019
NIH National Human Genome Research Institute (NHGRI) Annual Meeting in St. Louis, Missouri	Apr. 2019
Northern California Computational Biology Symposium in San Francisco, California	Oct. 2018
UCSC Program in Biological Sciences and Engineering Research Conference	Sept. 2018

Canadian Institute for Advanced Research Genetic Network Program Meeting in Santa Cruz, California

Annual Biomedical Research Conference for Minority Students (ABRCMS) in Tampa, Florida

Dec. 2016

Nov. 2016

UCSC Program in Biological Sciences and Engineering Research Conference	Sept. 2016			
TEACHING				
Computational Biology Tools	Winter 2021			
Teaching Assistant for Computational Biology Tools (BME110)				
Data Carpentry Workshop and office hours	Summer 2020			
Co-led a two-day Data Carpentry Workshop for the NIH-funded Big Data 2 Knowledge				
Summer Up Program, which is designed to enhance the diversity of the research				
workforce; held weekly office hours for walk-in advising and troubleshooting	0040			
Bioinformatics Analysis and Coding Workshop	Summer 2019			
Co-designed and co-led a two-day workshop for Big Data 2 Knowledge Summer Up				
Program, held weekly office hours for walk-in advising and troubleshooting	0 0040			
Python crash course	Summer 2018			
Led an online Python crash course to prepare incoming UCSC Biomolecular				
Engineering and Bioinformatics graduate students	C 2010			
Biomolecular Engineering Bootcamp	Summer 2018			
With five other current graduate students, organized and led a weeklong "Bootcamp"				
where incoming UCSC Biomolecular Engineering and Bioinformatics graduate students used Oxford Nanopore Technologies MinIONs to sequence different mouse cDNA and				
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predict the tissue of origin				
MENTORING				
Mentor for Maximizing Access to Research Careers (MARC)				
Program aimed to increase diversity in biomedical sciences				
Student: Susanna Morin, undergraduate at UCSC	Summer 2020			
Mentor for Big Data 2 Knowledge Summer UP (BD2K)				
Summer computational biology training program aimed to enhance diversity				
Student: Christina Magana-Ramirez, undergraduate at CSU Monterey Bay	Summer 2020			
Student: <u>Tyler Hayes</u> , undergraduate at Southern University	Summer 2018			
Mentor for Treehouse Undergrad Bioinformatics Immersion (TUBI)				
Program to provide undergraduates bioinformatics experience	W: 2020			
Trained four UCSC students in RNA-seq projects using R	Winter 2020			
Mentor for Matriculating, Influencing, Networking, and Triumphing (MINT) Mentoring program for women-identified underrepresented students who want to				
attend graduate school				
Student: <u>Carmelle Catamura</u> , undergraduate at UCSC	2018-2020			
 Carmelle is now a Computational Biology PhD student at UC Berkeley 	2010-2020			
SERVICE AND COMMUNITY OUTREACH				
Volunteer via Alpha Epsilon Delta Honor Society	2013-2015			
120 hours for various causes including:				
 Performed fun science experiments at local elementary schools 				
 Collected, packaged, and delivered food donations for students from low-income fan 	nilies			
 Led a booth teaching youth about bat anatomy at Gainesville's Annual Bat Festival Participated in Give Kide the World and a green profit agreement in the formal ideas with life to the control of the contro	thurst and a self-			
• Participated in Give Kids the World, a non-profit organization for children with life-threatening diseases				
Club dedicated to raising average for those affected by shrapic illnesses	2014-2015			
Club dedicated to raising awareness for those affected by chronic illnesses	C			
Volunteer at Sarah Fox Children's Convalescent Hospital, Cape Town, South Africa	Summer 2013			
Assisted medical staff in caring for and monitoring recovering pediatric patients	2012 2012			
Volunteer at Shands Hospital, Gainesville FL	2012-2013			

Engaged with hospitalized geriatric patients to keep them physically and mentally active

Hurricane Relief Oct. 2012

Travelled from Gainesville, Florida to New York with the University of Florida Hillel to provide help to victims of Hurricane Sandy

School Health Interdisciplinary Program

2011-2012

Helped run after-school science programs at underserved elementary schools in Gainesville, FL

ADDITIONAL EXPERIENCE

Illumina Career Exploration Day

September 30, 2019

Attended day at Illumina's Foster City campus

Panel member December 7, 2019

"Broader Impacts and Big Challenges: Diversity in Quantitative Biology" panel at the Biology and Mathematics Bay Area conference