Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

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Research interests	Retrotransposon activity in the developing, aging, and diseased human brain.	
Education	University of California, San Diego PhD in Bioinformatics and Systems Biology Advised by Rusty Gage and Eran Mukamel	La Jolla, California In Progress
	Trinity College BS in Molecular and Cellular Biology Minor in Models and Data	Hartford, Connecticut May 2016
Honors and Awards	NSF Graduate Research Fellowship National Science Foundation (NSF)	2022
	Spot Award Broad Institute	2017
	Beta Beta Beta National Biology Honors Soci Trinity College	ety 2014
	NESCAC Winter All-Academic Team Trinity College	2014
Research experience	PhD Student UC San Diego, Salk Institute Mentors: Rusty Gage and Eran Mukamel	2020 — Present La Jolla, California
	Research Associate Broad Institute Mentors: Aviv Regev, Benjamin Izar, Pratiks	2016 – 2020 Cambridge, Massachusetts ha Thakore, Yaara Oren
	Undergraduate Researcher Dana-Farber Cancer Institute Mentors: Matthew Meyerson and Alison Taylo	2014 – 2016 Boston, Massachusetts or
	Undergraduate Researcher Trinity College HHMI Science Education Alliance-Phage Hu and Evolutionary Science program. (SEA-PH.	_

Research: Published

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Teaching / Mentorship	Undergraduate mentor	2021 – Present
	UCSD Biology Undergraduate and Master's	La Jolla, California
	COSD Browdy Chactyradadic and Master 5	La gona, Camorna
	Bootcamp instructor	Fall 2021, Fall 2022
	Bioinformatics and Systems Biology, UCSD	La Jolla, California
	30,	,
	Teaching assistant	Spring 2015
	Department of Biology, Trinity College	Hartford, Connecticut
	BIOL 224: Genetics	,
	Tutor	2014-2016
	Department of Biology, Trinity College	Hartford, Connecticut
	BIOL 182: Evolution of Life	,
	BIOL 183: Cellular Basis of Life	
	BIOL 224: Genetics	
	BIOL 224. Genevics	
Service / Outreach	Committee Member	2021 – Present
	Advisory Committee on Diversity	La Jolla, California
	Salk Institute for Biological Studies	
	Director of Onboarding	2021 – Present
	Symposium Organizer	2022
	Graduate Bioinformatics Council	La Jolla, California
	UCSD Bioinformatics and Systems Biology	
	Committee Member	2020-Present
	Diversity Equity and Inclusion Committee	La Jolla, California
	UCSD Bioinformatics and Systems Biology	
	Seminar Organizer	2021
	Symposium Organizer	Fall 2021
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Diversity and Science Lecture Series

La Jolla, California

UCSD

Volunteer - High Tech High Mesa Fall 2021 Volunteer - La Jolla High School Fall 2021 SciChats@Salk Education Outreach La Jolla, California Salk Institute for Biological Studies

Profficiencies / Skills

Programming Languages

R, Python, Bash

Data Analysis

Single-cell genomics: Seurat, scanpy, pegasus

Pipeline development: Workflow development language (WDL), Snake-

make

Job managers: Cromwell, Sun Grid Engine (SGE), Slurm, PBS-Torque

 ${\it Cloud\ computing:}\ {\it Google\ Cloud\ Platform\ (GCP)},\ {\it Terra}$

Visualization: ggplot, matplotlib

Programmatic Reporting

Notebooks / Slides: Quarto, Rmarkdown, Jupyter Notebooks

Websites: Jekyll, Bookdown, Blogdown, Jupyter Book

Software Development

Git, GitHub, GitHub Actions CI/CD