# 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			Jolla, California	
	PhD in Bioinformatics and Systems Biology			In Progress	
	Thesis Committee:				
	• Fred H. Gage, PhD (Chair)				
	• Eran A. Mukamel, PhD (Co-Chair)				
	• Graham McVicker, PhD				
	• Melissa Gymrek, PhD				
	• Nicholas Schor	rk, PhD			
	Trinity College		Hartfo	rd, Connecticut	
	BS in Molecular and Cellular Biology			May 2016	
	Minor in Models and	d Data			
Honors and Awards	NSF Graduate Rese	arch Fellowship		2022	
		Foundation (NSF)			
	Spot Award			2017	
	Broad Institute		a .	2011	
	Beta Beta Beta Nat Trinity College	ional Biology Hono	rs Society	2014	
	NESCAC Winter Al	ll-Academic Team		2014	
	Trinity College				
Research experience	PhD Student			2020 – Present	
	Gage Lab, Salk Institute for Biological Studies			Jolla, California	
	Mukamel Lab, UC San Diego			Jolla, California	
	Mentors: Fred H. Gage and Eran A. Mukamel				
	Research Associate			2016 - 2020	
	Regev Lab, Broad Institute Cambridge, Massachusetts				
	Mentors: Aviv Regev, Benjamin Izar, Pratiksha Thakore, Yaara Oren				

#### Undergraduate Researcher

2014 - 2016

Meyerson Lab, Dana-Farber Cancer Institute

Boston, Massachusetts

Mentors: Matthew Meyerson and Alison Taylor

## Undergraduate Researcher

2013

 $Trinity\ College$ 

Hartford, Connecticut

HHMI Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science program. (SEA-PHAGES: seaphages.org)

#### Research: Published

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- Li, J., Pinto-Duarte, A., Zander, M., Cuoco, M. S., Lai, C.-Y., Osteen, J., Fang, L., Luo, C., Lucero, J. D., Gomez-Castanon, R., Nery, J. R., Silva-Garcia, I., Pang, Y., Sejnowski, T. J., Powell, S. B., Ecker, J. R., Mukamel, E. A., Behrens, M. M., "Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and increases the repressive histone modification H3K27me3." In: *eLife* 11 (May 24, 2022). DOI: 10.7554/eLife.66909.
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## Research: Preprint

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Mentorship	Joelle Faybishenko	Fall 2022 – present
	Undergraduate Student, UC San Diego Gage Lab, Salk Institute for Biological Studies	La Jolla, California
	Evan Lee	Fall 2022 – present
	Undergraduate Student, UC San Diego Biology Undergraduate and Master's Mentorship,	La Jolla, California
	Rohini Gadde	Fall 2021 – present
	Undergraduate Student, UC San Diego Mukamel Lab, UC San Diego	La Jolla, California
	Anise Porter	Fall 2020 – present
	Undergraduate Student, UC San Diego	
	Biology Undergraduate and Master's Mentorship,	La Jolla, California
	Jesslyn Goh	Fall 2019 – 2020
	Undergraduate Student, Wellesley College	
	Regev Lab, Broad Institute Ca	ambridge, Massachusetts
	Current: Masters Student, Harvard University	Boston, Massachusetts
Teaching	Bootcamp instructor	Fall 2021, Fall 2022
	Bioinformatics and Systems Biology, UCSD	La Jolla, California
	Teaching assistant	Spring 2015
	Department of Biology, Trinity College	Hartford, Connecticut
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BIOL 224: Genetics

Department of Biology, Trinity College Hartford, Connecticut BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life BIOL 224: Genetics 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 Diversity and Science Lecture Series La Jolla, California UCSDVolunteer - 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 Proficiencies / Skills **Programming Languages** R, Python, Bash

Tutor

2014 - 2016