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				
	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			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		Studies La.	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			, 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

- Otto, J. E., Ursu, O., Wu, A. P., Winter, E. B., **Cuoco, M. S.**, Ma, S., Qian, K., Michel, B. C., Buenrostro, J. D., Berger, B., Regev, A., Kadoch, C., "Structural and functional properties of mSWI/SNF chromatin remodeling complexes revealed through single-cell perturbation screens." In: *Molecular cell* 83 (8 Apr. 2023). DOI: 10.1016/j.molcel.2023.03.013.
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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 Cambridge, Massachusetts Current: Masters Student, Harvard University Boston, Massachusetts 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 BIOL 224: Genetics Tutor 2014 - 2016Department of Biology, Trinity College Hartford, Connecticut BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life BIOL 224: Genetics Committee Member 2021 - Present La Jolla, California Advisory Committee on Diversity 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 UCSD

Volunteer - High Tech High Mesa

Volunteer - La Jolla High School

SciChats@Salk Education Outreach

Teaching

Service / Outreach

Curriculum Vitae, Michael Sellers Cuoco, 7

Fall 2021

Fall 2021

La Jolla, California

 $Salk\ Institute\ for\ Biological\ Studies$

Proficiencies / Skills Programming Languages

R, Python, Bash