Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

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Research interests	Applying genomics data science to learn new biology of aging and disease.			
Teoperation interests	Interested broadly in repetitive DNA and gene regulatory networks. Thesis work is focused on retrotransposon activity in the human brain.			
Education	University of California, San Diego	La Jolla, California		
Education	 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 Schork, PhD 		In Progress	
	Trinity College	Hartfo	rd, Connecticut	
	BS in Molecular and Cellular Biology Minor in Models and Data		May 2016	
Honors and Awards	NSF Graduate Research Fellowship		2022	
	National Science Foundation (NSF)			
	Spot Award		2017	
	Broad Institute Beta Beta National Biology Honors Societ Trinity College	УУ	2014	
	NESCAC Winter All-Academic Team Trinity College		2014	
Research experience	PhD Student		2020 – Present	
	Gage Lab, Salk Institute for Biological Studies Mukamel Lab, UC San Diego Mentors: Fred H. Gage and Eran A. Mukamel		Jolla, California Jolla, California	
	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

- Subramanian, A., Vernon, K. A., Zhou, Y., Marshall, J. L., Alimova, M., Arevalo, C., Zhang, F., Slyper, M., Waldman, J., Montesinos, M. S., Dionne, D., Nguyen, L. T., Cuoco, M. S., Dubinsky, D., Purnell, J., Keller, K., Sturner, S. H., Grinkevich, E., Ghoshal, A., Kotek, A., Trivioli, G., Richoz, N., Humphrey, M. B., Darby, I. G., Miller, S. J., Xu, Y., Weins, A., Chloe-Villani, A., Chang, S. L., Kretzler, M., Rosenblatt-Rosen, O., Shaw, J. L., Zimmerman, K. A., Clatworthy, M. R., Regev, A., Greka, A., "Protective role for kidney TREM2high macrophages in obesity- and diabetes-induced kidney injury." In: Cell reports 43 (6 May 23, 2024). DOI: 10.1016/j.celrep.2024.114253.
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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 Undergraduate Student, UC San Diego	Fall 2022 – present
	Biology Undergraduate and Master's Mentorship,	La Jolla, California
	Rohini Gadde Undergraduate Student, UC San Diego	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	mbridge, 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 BIOL 224: Genetics	Hartford, Connecticut
	Tutor	2014 - 2016
	Department of Biology, Trinity College BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life	Hartford, Connecticut
	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 Member2020 - PresentDiversity Equity and Inclusion CommitteeLa Jolla, California

UCSD Bioinformatics and Systems Biology

Seminar Organizer2021Symposium OrganizerFall 2021Diversity and Science Lecture SeriesLa 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

Programming Languages

Proficiencies / Skills

R, Python, Bash