Michael Sellers Cuoco

IICHAEL SEHEIS CUOCO

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PhD Student, Bioinformatics and Systems Biology

✓ mcuoco@ucsd.edu i michaelcuoco.com		San Diego	
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 National Biology Honors Society Trinity College	2014	
	NESCAC Winter All-Academic Team Trinity College	2014	
Research experience	PhD Student	$2020-{ m Present}$	
	UC San Diego, Salk Institute Mentors: Rusty Gage and Eran Mukamel	La Jolla, California	
	Research Associate	2016 - 2020	
	$Broad\ Institute$	Cambridge, Massachusetts	
	Mentors: Aviv Regev, Benjamin Izar, Pratiksha Thakore, Yaara Oren		
	Undergraduate Researcher	2014 - 2016	
	Dana-Farber Cancer Institute Mentors: Matthew Meyerson and Alison Taylo	Boston, Massachusetts	
	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

- Eraslan, G., Drokhlyansky, E., Anand, S., Fiskin, E., Subramanian, A., Slyper, M., Wang, J., Wittenberghe, N. V., Rouhana, J. M., Waldman, J., Ashenberg, O., Lek, M., Dionne, D., Win, T. S., Cuoco, M. S., Kuksenko, O., Tsankov, A. M., Branton, P. A., Marshall, J. L., Greka, A., Getz, G., Segrè, A. V., Aguet, F., Rozenblatt-Rosen, O., Ardlie, K. G., Regev, A., "Single-nucleus cross-tissue molecular reference maps toward understanding disease gene function." In: Science (New York, N.Y.) 376 (6594 May 14, 2022). DOI: 10.1126/science.ab14290.
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Research: Preprint

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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
		,
	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