Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

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Research interests	Retrotransposon activity in the developing, a brain.	aging, and diseased human	
Education	 University of California, San Diego 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 	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 Socie Trinity College	2014	
	NESCAC Winter All-Academic Team Trinity College	2014	
Research experience	PhD Student	2020 – Present	
	Gage Lab, Salk Institute for Biological Studies	La Jolla, California	
	Mukamel Lab, UC San Diego Mentors: Fred H. Gage and Eran A. Mukamel	La 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

- 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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- Jerby-Arnon, L., Neftel, C., Shore, M. E., Weisman, H. R., Mathewson, N. D., McBride, M. J., Haas, B., Izar, B., Volorio, A., Boulay, G., Cironi, L., Richman, A. R., Broye, L. C., Gurski, J. M., Luo, C. C., Mylvaganam, R., Nguyen, L., Mei, S., Melms, J. C., Georgescu, C., Cohen, O., Buendia-Buendia, J. E., Segerstolpe, A., Sud, M., Cuoco, M. S., Labes, D., Gritsch, S., Zollinger, D. R., Ortogero, N., Beechem, J. M., Nielsen, G. P., Chebib, I., Nguyen-Ngoc, T., Montemurro, M., Cote, G. M., Choy, E., Letovanec, I., Cherix, S., Wagle, N., Sorger, P. K., Haynes, A. B., Mullen, J. T., Stamenkovic, I., Rivera, M. N., Kadoch, C., Wucherpfennig, K. W., Rozenblatt-Rosen, O., Suvà, M. L., Riggi, N., Regev, A., "Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma." In: Nature medicine 27 (2 Jan. 27, 2021). DOI: 10.1038/s41591-020-01212-6.
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 Single-Cell Resolution." In: Cell 182 (6 Sept. 2020). DOI: 10.1016/j.cell.2020.08.003.
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Research: Preprint

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Mentorship	Joelle Faybishenko	$Fall\ 2022-present$
	Undergraduate Student, UC San Diego	La Jalla California
	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

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

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

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

UCSD

Volunteer - High Tech High Mesa Fall 2021

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

Proficiencies / Skills

Programming Languages

R, Python, Bash