# Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

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Research interests	Retrotransposon activity in the developing, a brain.	ging, and diseased human
Education	University of California, San Diego	La Jolla, California
Eddeadon	PhD in Bioinformatics and Systems Biology	In Progress
	Thesis Committee:	111 1 1001 000
	• Fred H. Gage, PhD (Chair)	
	• Eran A. Mukamel, PhD (Co-Chair)	
	• Graham McVicker, PhD	
	• Melissa Gymrek, PhD	
	• Nicholas Schork, PhD	
	Trinity College	Hartford, Connecticut
	BS in Molecular and Cellular Biology	May 2016
	Minor in Models and Data	
Honors and Awards	NSF Graduate Research Fellowship	2022
	National Science Foundation (NSF)	2017
	Spot Award $Broad\ Institute$	2017
	Beta Beta Rational Biology Honors Socie	ty 2014
	Trinity College	2011
	NESCAC Winter All-Academic Team	2014
	Trinity College	
Research experience	PhD Student	2020 – Present
r	Gage Lab, Salk Institute for Biological Studies	La Jolla, California
	Mukamel Lab, UC San Diego	La Jolla, California
	Mentors: Fred H. Gage and Eran A. Mukamel	
	Research Associate	2016 - 2020
	Regev Lab, Broad Institute	Cambridge, Massachusetts
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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

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#### Research: Published

- Toda, T., Bedrosian, T. A., Schafer, S. T., Cuoco, M. S., Linker, S. B., Ghassemzadeh, S., Mitchell, L., Whiteley, J. T., Novaresi, N., McDonald, A. H., Gallina, I. S., Yoon, H., Hester, M. E., Pena, M., Lim, C., Suljic, E., Mansour, A. A., Boulard, M., Parylak, S. L., Gage, F. H., "Long interspersed nuclear elements safeguard neural progenitors from precocious differentiation." In: *Cell reports* 43 (2 Feb. 13, 2024). DOI: 10.1016/j.celrep.2024.113774.
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- Hwang, W. L., Jagadeesh, K. A., Guo, J. A., Hoffman, H. I., Yadollahpour, P., Reeves, J. W., Mohan, R., Drokhlyansky, E., Wittenberghe, N. V., Ashenberg, O., Farhi, S. L., Schapiro, D., Divakar, P., Miller, E., Zollinger, D. R., Eng, G., Schenkel, J. M., Su, J., Shiau, C., Yu, P., Freed-Pastor, W. A., Abbondanza, D., Mehta, A., Gould, J., Lambden, C., Porter, C. B. M., Tsankov, A., Dionne, D., Waldman, J., Cuoco, M. S., Nguyen, L., Delorey, T., Phillips, D., Barth, J. L., Kem, M., Rodrigues, C., Ciprani, D., Roldan, J., Zelga, P., Jorgji, V., Chen, J. H., Ely, Z., Zhao, D., Fuhrman, K., Fropf, R., Beechem, J. M., Loeffler, J. S., Ryan, D. P., Weekes, C. D., Ferrone, C. R., Qadan, M., Aryee, M. J., Jain, R. K., Neuberg, D. S., Wo, J. Y., Hong, T. S., Xavier, R., Aguirre, A. J., Rozenblatt-Rosen, O., Mino-Kenudson, M., Castillo, C. F.-D., Liss, A. S., Ting, D. T., Jacks, T., Regev, A., "Single-nucleus and spatial transcriptome profiling of pancreatic cancer identifies multicellular dynamics associated with neoadjuvant treatment." In: Nature genetics 54 (8 July 29, 2022). DOI: 10.1038/s41588-022-01134-8.
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## Research: Preprint

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	Evan Lee	Fall 2022 – present
	Undergraduate Student, UC San Diego Biology Undergraduate and Master's Mentorship,	La Jolla, California
	Rohini Gadde Undergraduate Student, UC San Diego	Fall 2021 – present
	Mukamel Lab, UC San Diego	La Jolla, California
	Anise Porter Undergraduate Student, UC Sen Diego	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 Current: Masters Student, Harvard University	ambridge, Massachusetts Boston, Massachusetts
Teaching	Bootcamp instructor	Fall 2021, Fall 2022
Towaring	Bioinformatics and Systems Biology, UCSD	La Jolla, California
	Teaching assistant  Department of Biology, Trinity College  BIOL 224: Genetics	Spring 2015 Hartford, Connecticut
	Tutor  Department of Biology, Trinity College BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life BIOL 224: Genetics	2014 – 2016 Hartford, Connecticut
Service / Outreach	Committee Member	2021 – Present
Scrvice / Outreach	Advisory Committee on Diversity Salk Institute for Biological Studies	La Jolla, California
	Director of Onboarding	2021 – Present
	Symposium Organizer  Graduate Bioinformatics Council  UCSD Bioinformatics and Systems Biology	2022 La Jolla, California

Committee Member2020 - PresentDiversity Equity and Inclusion CommitteeLa Jolla, CaliforniaUCSD Bioinformatics and Systems Biology

Seminar Organizer2021Symposium OrganizerFall 2021Diversity and Science Lecture SeriesLa Jolla, CaliforniaUCSDUCSD

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