# 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	La Jolla, California
	<ul> <li>PhD in Bioinformatics and Systems Biology</li> <li>Thesis Committee:</li> <li>Fred H. Gage, PhD (Chair)</li> <li>Eran A. Mukamel, PhD (Co-Chair)</li> <li>Graham McVicker, PhD</li> <li>Melissa Gymrek, PhD</li> <li>Nicholas Schork, PhD</li> </ul>	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 Beta National Biology Honors Socie  Trinity College	ety 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	La Jolla, California
	Research Associate Regev Lab, Broad Institute	2016 - 2020 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

- 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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Mentorship	Joelle Faybishenko	Fall 2022 – present
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	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

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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