

# Michael Sellers Cuoco

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PhD Student, Bioinformatics and Systems Biology

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## Research interests

Retrotransposon activity in the developing, healthy, aging, and diseased human brain.

## Education

**University of California, San Diego**    La Jolla, California  
PhD in Bioinformatics and Systems Biology (BISB)    In Progress  
Advised by Rusty Gage and Eran Mukamel

**Trinity College**    Hartford, Connecticut  
BS in Molecular and Cellular Biology    May 2017  
Minor in Models and Data

## Honors and Awards

NSF Graduate Research Fellowship    2022  
*National Science Foundation (NSF)*  
Spot Award    2017  
*Broad Institute*  
Beta Beta Beta National Biology Honors Society    2014  
*Trinity College*  
NESCAC Winter All-Academic Team    2014  
*Trinity College*

## Research experience

**Research Associate**    2016 – 2020  
*Broad Institute*    Cambridge, Massachusetts  
Mentors: Aviv Regev, Benjamin Izar, Pratiksha Thakore, Yaara Oren  
Used methods in single-cell RNA-seq and CRISPR screening to investigate the mechanisms of cancer drug resistance.

**Undergraduate Researcher**    2014 – 2016  
*Dana-Farber Cancer Institute*    Boston, Massachusetts  
Mentors: Matthew Meyerson, Alison Taylor  
Used targeted CRISPR-Cas9 approaches to engineer chromosome arm deletion in cancer cell lines.

**Undergraduate Researcher**    2013  
*Trinity College*    Hartford, Connecticut  
HHMI Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science program. (SEA-PHAGES: seaphages.org)  
Isolated and purified bacteriophage species. Sequenced and annotated the bacteriophage's genome

## Research: Published

- Bi, K., He, M. X., Bakouny, Z., Kanodia, A., Napolitano, S., Wu, J., Grimaldi, G., Braun, D. A., **Cuoco, M. S.**, Mayorga, A., DelloStritto, L., Bouchard, G., Steinharter, J., Tewari, A. K., Vokes, N. I., Shannon, E., Sun, M., Park, J., Chang, S. L., McGregor, B. A., Haq, R., Denize, T., Signoretti, S., Guerriero, J. L., Vigneau, S., Rozenblatt-Rosen, O., Rotem, A., Regev, A., Choueiri, T. K., Allen, E. M. V., “Tumor and immune reprogramming during immunotherapy in advanced renal cell carcinoma.” In: *Cancer cell* 39 (5 Mar. 13, 2021). DOI: 10.1016/j.ccell.2021.02.015.
- Frangieh, C. J., Melms, J. C., Thakore, P. I., Geiger-Schuller, K. R., Ho, P., Luoma, A. M., Cleary, B., Jerby-Arnon, L., Malu, S., **Cuoco, M. S.**, Zhao, M., Ager, C. R., Rogava, M., Hovey, L., Rotem, A., Bernatchez, C., Wucherpfennig, K. W., Johnson, B. E., Rozenblatt-Rosen, O., Schadendorf, D., Regev, A., Izar, B., “Multimodal pooled Perturb-CITE-seq screens in patient models define mechanisms of cancer immune evasion.” In: *Nature genetics* 53 (3 Mar. 2021). DOI: 10.1038/s41588-021-00779-1.
- He, M. X., **Cuoco, M. S.**, Crowdis, J., Bosma-Moody, A., Zhang, Z., Bi, K., Kanodia, A., Su, M.-J., Ku, S.-Y., Garcia, M. M., Sweet, A. R., Rodman, C., DelloStritto, L., Silver, R., Steinharter, J., Shah, P., Izar, B., Walk, N. C., Burke, K. P., Bakouny, Z., Tewari, A. K., Liu, D., Camp, S. Y., Vokes, N. I., Salari, K., Park, J., Vigneau, S., Fong, L., Russo, J. W., Yuan, X., Balk, S. P., Beltran, H., Rozenblatt-Rosen, O., Regev, A., Rotem, A., Taplin, M.-E., Allen, E. M. V., “Transcriptional mediators of treatment resistance in lethal prostate cancer.” In: *Nature medicine* 27 (3 Mar. 2021). DOI: 10.1038/s41591-021-01244-6.
- 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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- Oren, Y., Tsabar, M., **Cuoco, M. S.**, Amir-Zilberstein, L., Cabanos, H. F., Hütter, J.-C., Hu, B., Thakore, P. I., Tabaka, M., Fulco, C. P., Colgan, W., Cuevas, B. M., Hurvitz, S. A., Slamon, D. J., Deik, A., Pierce, K. A., Clish, C., Hata, A. N., Zaganjor, E., Lahav, G., Politi, K., Brugge, J. S., Regev, A., “Cycling cancer persister cells arise from lineages with distinct programs.” In: *Nature* 596 (7873 Aug. 13, 2021). DOI: 10.1038/s41586-021-03796-6.

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- Raundhal, M., Ghosh, S., Myers, S. A., **Cuoco, M. S.**, Singer, M., Carr, S. A., Waikar, S. S., Bonventre, J. V., Ritz, J., Stone, R. M., Steensma, D. P., Regev, A., Glimcher, L. H., "Blockade of IL-22 signaling reverses erythroid dysfunction in stress-induced anemias." In: *Nature immunology* 22 (4 Mar. 24, 2021). DOI: 10.1038/s41590-021-00895-4.
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- Izar, B., Tirosh, I., Stover, E. H., Wakiro, I., **Cuoco, M. S.**, Alter, I., Rodman, C., Leeson, R., Su, M.-J., Shah, P., Iwanicki, M., Walker, S. R., Kanodia, A., Melms, J. C., Mei, S., Lin, J.-R., Porter, C. B. M., Slyper, M., Waldman, J., Jerby-Arnon, L., Ashenberg, O., Brinker, T. J., Mills, C., Rogava, M., Vigneau, S., Sorger, P. K., Garraway, L. A., Konstantinopoulos, P. A., Liu, J. F., Matulonis, U., Johnson, B. E., Rozenblatt-Rosen, O., Rotem, A., Regev, A., "A single-cell landscape of high-grade serous ovarian cancer." In: *Nature medicine* 26 (8 June 24, 2020). DOI: 10.1038/s41591-020-0926-0.
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- B. E., Rotem, A., Rozenblatt-Rosen, O., Garraway, L. A., Yoon, C. H., Izar, B., Regev, A., “A Cancer Cell Program Promotes T Cell Exclusion and Resistance to Checkpoint Blockade.” In: *Cell* 175 (4 Nov. 2018). DOI: 10.1016/j.cell.2018.09.006.
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## Research: Preprint

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- of archival pancreatic cancer reveals multi-compartment reprogramming after neoadjuvant treatment”. In: *BioRxiv* (2020). DOI: 10.1101/2020.08.25.267336.
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Teaching experience	<b>Bootcamp instructor</b> <i>Bioinformatics and Systems Biology, UCSD</i>	Fall 2021, Fall 2022 La Jolla, California
	<b>Teaching assistant</b> <i>Department of Biology, Trinity College</i> BIOL 224: Genetics	Spring 2015 Hartford, Connecticut
	<b>Tutor</b> <i>Department of Biology, Trinity College</i> BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life BIOL 224: Genetics	2014-2016 Hartford, Connecticut
Skills	<b>Programming</b> Proficient in: R, LaTeX, Bash. Familiar with: Python, Google Cloud Platform.	
Service and Outreach	<b>Diversity and Science Lecture Series (DASL)</b>	La Jolla, California
	<i>Seminar Organizer</i>	2021 - Present
	<i>Symposium Organizer</i>	Fall 2021
	Organized and led 3-day symposium focused on issues of diversity, equity and inclusion in STEM	
	<b>Biology Undergraduate and Master's Mentorship Program (BUMMP)</b>	La Jolla, California
	<i>Mentor</i>	2021 - Present
	Meet with undergraduate students twice quarterly to review	
	<b>Graduate Bioinformatics Council (GBIC)</b>	La Jolla, California
	<i>Director of Onboarding</i>	2021 - Present
	Led onboarding of new cohorts to Bioinformatics and Systems Biology graduate program	
	<i>Symposium Organizer</i>	2022