Michael Sellers Cuoco

Honors and Awards

Research experience

Updated September 20, 2025

Hartford, Connecticut

PhD Candidate, Bioinformatics and Systems Biology ■ Salk Institute ■ UC San Diego **J** (978) 505-0993 **∠** mcuoco@ucsd.edu ↓ La Jolla, California **D** 0000-0003-2163-5120 michaelcuoco.com mikecuoco **y** @cuoco_michael in michaelcuoco Research interests My research passion lies in dissecting and addressing the molecular basis of human disease. To address these complex questions, I have developed a strong technical background in next-generation sequencing, CRISPR-based genome editing, data science, and machine learning. In my PhD, I have applied these skills to characterize LINE-1 retrotransposon activity in brain aging and disease. Education University of California, San Diego La Jolla, California PhD in Bioinformatics and Systems Biology Expected December 2025 Thesis Committee: • Fred H. Gage, PhD (Chair) • Eran A. Mukamel, PhD (Co-Chair)

• Graham McVicker, PhD

Melissa Gymrek, PhD

Nicholas Schork, PhD

Trinity College

BS in Molecular and Cellular Biology May 2016 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

PhD Student 2020 - Present Gage Lab, Salk Institute for Biological Studies La Jolla, California Mukamel Lab, UC San Diego La Jolla, California

Mentors: Fred H. Gage, Eran A. Mukamel

Research Associate 2016 - 2020Regev 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, Alison Taylor

Undergraduate Researcher

2013

Trinity College

Hartford, Connecticut

HHMI Science Education Alliance - SEA-PHAGES

Research: In Preparation

Cuoco, M. S., Wang, M., Gadde, R., Gallina, I., Jacomini, R. S., Weinberger, D. R., Erwin, J. A., Paquola, A. M., Mukamel, E. A., Gage, F. H., "Elevated LINE-1 retrotransposon activity in human hippocampus." (2025).

Luciolla, R., Cuoco, M. S., Gage, F. H., "RUNX1 and YY1 As Novel Drivers of Neuronal Identity Loss in Alzheimer's Disease." (2025).

Research: Submitted

Revanna, J. S., Wessendorf-Rodriguez, K., Sabedot, T., Cuoco, M. S., Sarkar, S., Zhang, L., Prozapas, V. N., Wooldridge, R. S., Steiner, S., Katz, A., Pratt, J., Mertens, J., Melchior, J. T., Metallo, C., Jones, J. R., Gage, F. H., "Cholesterol ester accumulation in APOE4/4 microglia leads to lysosomal and mitochondrial dysfunction" (2025).

Research: Published

- Subramanian, A., Vernon, K. A., Zhou, Y., Marshall, J. L., Alimova, M., Arevalo, C., Zhang, F., Slyper, M., Waldman, J., Montesinos, M. S., Dionne, D., Nguyen, L. T., Cuoco, M. S., Dubinsky, D., Purnell, J., Keller, K., Sturner, S. H., Grinkevich, E., Ghoshal, A., Kotek, A., Trivioli, G., Richoz, N., Humphrey, M. B., Darby, I. G., Miller, S. J., Xu, Y., Weins, A., Chloe-Villani, A., Chang, S. L., Kretzler, M., Rosenblatt-Rosen, O., Shaw, J. L., Zimmerman, K. A., Clatworthy, M. R., Regev, A., Greka, A., "Protective role for kidney TREM2high macrophages in obesity- and diabetes-induced kidney injury." *Cell reports* 43 (6 May 23, 2024). DOI: 10.1016/j.celrep.2024.114253.
- 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." Cell reports 43 (2 Feb. 13, 2024). DOI: 10.1016/j.celrep.2024.113774.
- Boyle, E. A., Goldberg, G., Schmok, J. C., Burgado, J., Layng, F. I., Grunwald, H. A., Balotin, K. M., **Cuoco, M. S.**, Chang, K.-C., Ecklu-Mensah, G., Arakaki, A. K. S., Ahmed, N., Arceo, X. G., Jagannatha, P., Pekar, J., Iyer, M., Yeo, G. W., "Junior scientists spotlight social bonds in seminars for diversity, equity, and inclusion in STEM." *PloS one* 18 (11 Nov. 2023). DOI: 10.1371/journal.pone.0293322.
- 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." *Molecular cell* 83 (8 Apr. 2023). DOI: 10.1016/j.molcel.2023.03.013.
- Shih, J., Sarmashghi, S., Zhakula-Kostadinova, N., Zhang, S., Georgis, Y., Hoyt, S. H., Cuoco, M. S., Gao, G. F., Spurr, L. F., Berger, A. C., Ha, G., Rendo, V., Shen, H., Meyerson, M., Cherniack, A. D., Taylor, A. M., Beroukhim, R., "Cancer aneuploidies are shaped primarily by effects on tumour fitness." *Nature* 619 (7971 June 29, 2023). DOI: 10.1038/s41586-023-06266-3.
- 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." *Science* (New York, N.Y.) 376 (6594 May 14, 2022). DOI: 10.1126/science.abl4290.
- 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." Nature genetics 54 (8 July 29, 2022). DOI: 10.1038/s41588-022-01134-8.
- Li, J., Pinto-Duarte, A., Zander, M., Cuoco, M. S., Lai, C.-Y., Osteen, J., Fang, L., Luo, C., Lucero, J. D., Gomez-Castanon, R., Nery, J. R., Silva-Garcia, I., Pang, Y., Sejnowski, T. J., Powell, S. B., Ecker, J. R., Mukamel, E. A., Behrens, M. M., "Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and increases the repressive histone modification H3K27me3." *eLife* 11 (May 24, 2022). DOI: 10.7554/eLife.66909.
- 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." *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." *Nature genetics* 53 (3 Mar. 2021). DOI: 10.1038/s41588-021-00779-1.
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- Mao, P., Cohen, O., Kowalski, K. J., Kusiel, J. G., Buendia-Buendia, J. E., **Cuoco, M. S.**, Exman, P., Wander, S. A., Waks, A. G., Nayar, U., Chung, J., Freeman, S., Rozenblatt-Rosen, O., Miller, V. A., Piccioni, F., Root, D. E., Regev, A., Winer, E. P., Lin, N. U., Wagle, N., "Acquired FGFR and FGF Alterations Confer Resistance to Estrogen Receptor (ER) Targeted Therapy in ER+ Metastatic Breast Cancer." *Clinical cancer research* 26 (22 July 30, 2020). DOI: 10.1158/1078-0432.CCR-19-3958.
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- Jacks, T., "IL-33 Signaling Alters Regulatory T Cell Diversity in Support of Tumor Development." Cell reports 29 (10 Dec. 2019). DOI: 10.1016/j.celrep.2019.10.120.
- Jerby-Arnon, L., Shah, P., Cuoco, M. S., Rodman, C., Su, M.-J., Melms, J. C., Leeson, R., Kanodia, A., Mei, S., Lin, J.-R., Wang, S., Rabasha, B., Liu, D., Zhang, G., Margolais, C., Ashenberg, O., Ott, P. A., Buchbinder, E. I., Haq, R., Hodi, F. S., Boland, G. M., Sullivan, R. J., Frederick, D. T., Miao, B., Moll, T., Flaherty, K. T., Herlyn, M., Jenkins, R. W., Thummalapalli, R., Kowalczyk, M. S., Cañadas, I., Schilling, B., Cartwright, A. N. R., Luoma, A. M., Malu, S., Hwu, P., Bernatchez, C., Forget, M.-A., Barbie, D. A., Shalek, A. K., Tirosh, I., Sorger, P. K., Wucherpfennig, K., Allen, E. M. V., Schadendorf, D., Johnson, 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." Cell 175 (4 Nov. 2018). DOI: 10.1016/j.cell.2018.09.006.
- Nayar, U., Cohen, O., Kapstad, C., Cuoco, M. S., Waks, A. G., Wander, S. A., Painter, C., Freeman, S., Persky, N. S., Marini, L., Helvie, K., Oliver, N., Rozenblatt-Rosen, O., Ma, C. X., Regev, A., Winer, E. P., Lin, N. U., Wagle, N., "Acquired HER2 mutations in ER+ metastatic breast cancer confer resistance to estrogen receptor-directed therapies." Nature genetics 51 (2 Dec. 12, 2018). DOI: 10.1038/s41588-018-0287-5.
- Wallrapp, A., Riesenfeld, S. J., Burkett, P. R., Abdulnour, R.-E. E., Nyman, J., Dionne, D., Hofree, M., Cuoco, M. S., Rodman, C., Farouq, D., Haas, B. J., Tickle, T. L., Trombetta, J. J., Baral, P., Klose, C. S. N., Mahlakõiv, T., Artis, D., Rozenblatt-Rosen, O., Chiu, I. M., Levy, B. D., Kowalczyk, M. S., Regev, A., Kuchroo, V. K., "The neuropeptide NMU amplifies ILC2-driven allergic lung inflammation." Nature 549 (7672 Sept. 14, 2017). DOI: 10.1038/nature24029.
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Research: Preprint

Subramanian, A., Vernon, K., Slyper, M., Waldman, J., Luecken, M. D., Gosik, K., Dubinsky, D., Cuoco, M. S., Keller, K., Purnell, J., Nguyen, L., Dionne, D., Rozenblatt-Rosen, O., Weins, A., Network, H. C. A. L. B., Regev, A., Greka, A., "RAAS blockade, kidney disease, and expression of ACE2, the entry receptor for SARS-CoV-2, in kidney epithelial and endothelial cells". *BioRxiv* (2020). DOI: 10.1101/2020.06.23.167098.

Mentorship	Joelle Faybishenko Gage Lab, Salk Institute for Biological Studies Current: Masters Student, ETH Zurich	Fall 2022 – present La Jolla, California Zurich, Switzerland
	Evan Lee Biology Undergraduate and Master's Mentorship	Fall 2022 – present La Jolla, California
	Rohini Gadde Mukamel Lab, UC San Diego	Fall 2021 – 2024 La Jolla, California
	Anise Porter Biology Undergraduate and Master's Mentorship	Fall 2020 – 2024 La Jolla, California
	Jesslyn Goh	Fall 2019 – 2020

Regev Lab, Broad Institute

Cambridge, Massachusetts

Teaching Guest Lecturer Spring 2025

Department of Cognitive Science, UC San Diego La Jolla, California

COGS9: Classification in Genomics Data

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

Professional Development Innovation and Commercialization Course Fall 2017 – Spring 2018

Harvard Biotech Club, Harvard Medical School Boston, Massachusetts

Biotechnology Incubator Program Fall 2018 – Spring 2020

Harvard Biotech Club, Harvard Medical School Boston, Massachusetts

Market assessment and lean startup (Raqia Therapeutics).

Service / Outreach Committee Member 2021 – 2024

Advisory Committee on Diversity La Jolla, California

Salk Institute for Biological Studies

Director of Onboarding 2021 – 2024

Graduate Bioinformatics Council La Jolla, California

UCSD Bioinformatics and Systems Biology

Committee Member 2020 - 2024

Diversity Equity and Inclusion Committee La Jolla, California

UCSD Bioinformatics and Systems Biology

Seminar Organizer 2021

Diversity and Science Lecture Series La Jolla, California

UCSD

Symposium Organizer Fall 2021

Diversity and Science Lecture Series La Jolla, California

UCSD

Volunteer - High Tech High Mesa

Fall 2021

 $SciChats@Salk\ Education\ Outreach$

La Jolla, California

 $Salk\ Institute\ for\ Biological\ Studies$

Volunteer - La Jolla High School

Fall 2021

 $SciChats@Salk\ Education\ Outreach$

La Jolla, California

Salk Institute for Biological Studies

Proficiencies / Skills

Programming

Python, Bash, R

Data Types

Single-cell and bulk genomics (RNA-seq, ATAC-seq, whole-genome sequencing, targeted sequencing), Genotyping arrays (Illumina)

Other

Google Cloud Platform, Docker, Git, GitHub Actions, Scikit-learn, Py-Torch, PyTorch Lightning, Seurat, Scanpy