



## Siavash Moghadami

Ph.D. Student in Chemical and Systems Biology, admitted Summer 2022

### Bio

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#### BIO

I am currently embarking on my Ph.D. journey at Stanford University's Department of Chemical and Systems Biology, generously supported by both NIH and NSF grants. Under the guidance of Nobel Laureate Carolyn Bertozzi, from the Department of Chemistry and the Stanford ChEM-H Institute, and Longzhi Tan from the Department of Neurobiology, my research continues to explore the fascinating intersection of chemistry and neuroscience.

In addition to my studies at Stanford, I remain actively involved with the BRAIN Initiative Cell Atlas Network (BICAN) project, which I joined during my time at the University of California, San Diego (UCSD). This ambitious project aims to build comprehensive brain cell atlases, providing a critical molecular and anatomical foundation for understanding brain function and disorders. At UCSD, under the mentorship of Don W. Cleveland and Bogdan Bintu, I contributed to BICAN's efforts in mapping brain cells and circuits, focusing on transformative research in regenerative medicine.

Prior to Stanford, I earned my B.Sc./M.Sc. in Biochemistry and Chemical Biology at UCSD. My research there concentrated on the in-vivo transformation of glial cells into functional neurons, a pioneering effort in the field of neuroscience.

Outside of my academic endeavors, I enjoy reading, exploring the realms of Artificial Intelligence, traveling, cooking, and continuously seeking to expand my skill set. I am excited about the opportunities to engage with and contribute to this vibrant professional community.

#### HONORS AND AWARDS

- NeuroTech Training Program (NSF), Stanford University (2023-Present)
- The Molecular Pharmacology Training Program (NIH T32), Stanford University (2023-Present)
- Provost's Honors, University of California at San Diego (2019-2022)
- Highest Departmental Distinction and Honors, University of California at San Diego (2021)
- Harold C. Urey Award, University of California at San Diego (2021)

#### EDUCATION AND CERTIFICATIONS

- M.Sc., University of California, San Diego, Chemistry: Chemical Biology (2022)
- B.Sc., University of California, San Diego, Biochemistry (Summa cum laude, Highest Distinction, and Departmental Honors) (2021)

#### LINKS

- LinkedIn: <https://www.linkedin.com/in/siavash-moghadami-b69910242/>
- Google Scholar: <https://scholar.google.com/citations?user=hHtXqYcAAAAJ&hl=en>

- Twitter: <https://twitter.com/SMoghadami>

## Publications

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### PUBLICATIONS

- **Lifelong restructuring of 3D genome architecture in cerebellar granule cells.** *Science (New York, N.Y.)*  
Tan, L., Shi, J., Moghadami, S., Parasar, B., Wright, C. P., Seo, Y., Vallejo, K., Cobos, I., Duncan, L., Chen, R., Deisseroth, K.  
2023; 381 (6662): 1112-1119
- **SINGLE NUCLEI PROFILING OF CILIA-RELATED GENES IN MYOCARDIAL SENESENCE, DILATED AND HYPERTROPHIC CARDIOMYOPATHIES**  
Aryan, Z., Moghadami, S., Sadoshima, J.  
ELSEVIER SCIENCE INC.2023: 377
- **Cerebellar Granule Cells Develop Non-neuronal 3D Genome Architecture over the Lifespan.** *bioRxiv : the preprint server for biology*  
Tan, L., Shi, J., Moghadami, S., Wright, C. P., Parasar, B., Seo, Y., Vallejo, K., Cobos, I., Duncan, L., Chen, R., Deisseroth, K.  
2023
- **Mannose-Binding Lectin is Dysregulated in Cardiac Endothelial Cells of Women With Peripartum Cardiomyopathy**  
Aryan, Z., Moghadami, S., Wang, W., Sadoshima, J.  
LIPPINCOTT WILLIAMS & WILKINS.2022