



Santiago Mille Fragoso

Ph.D. Student in Bioengineering, admitted Summer 2021

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- Fellow, SGF (September 2021)
- CBI ChEM-H Trainee, Sarafan ChEM-H, Stanford (September 2021)
- Fellow, SIGF Bio-X (September 2024)

LINKS

- Personal Website: <https://santiagomille.dev>

Publications

PUBLICATIONS

- **Enabling RNA-compatible synthetic receptors through RNA editing** *NATURE REVIEWS MOLECULAR CELL BIOLOGY*
Zhang, X., Mille-Fragoso, L. S.
2025
- **Post-transcriptional modular synthetic receptors.** *Nature chemical biology*
Zhang, X., Mille-Fragoso, L. S., Kaseniit, K. E., Lee, A. P., Zhang, M., Call, C. C., Hu, Y., Xie, Y., Gao, X. J.
2025
- **Microfluidic bioprinting of tough hydrogel-based vascular conduits for functional blood vessels.** *Science advances*
Wang, D., Maharjan, S., Kuang, X., Wang, Z., Mille, L. S., Tao, M., Yu, P., Cao, X., Lian, L., Lv, L., He, J. J., Tang, G., Yuk, et al
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- **An expanded whole-cell model of E. coli links cellular physiology with mechanisms of growth rate control.** *NPJ systems biology and applications*
Ahn-Horst, T. A., Mille, L. S., Sun, G., Morrison, J. H., Covert, M. W.
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- **Photoacoustic imaging of 3D-printed vascular networks.** *Biofabrication*
Ma, C., Li, W., Li, D., Chen, M., Wang, M., Jiang, L., Mille, L. S., Garciamendez, C. E., Zhao, Z., Zhou, Q., Zhang, Y. S., Yao, J.
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- **Biomimetic models of the glomerulus** *NATURE REVIEWS NEPHROLOGY*
Valverde, M. G., Mille, L. S., Figler, K. P., Cervantes, E., Li, V. Y., Bonventre, J., Masereeuw, R., Zhang, Y.
2022; 18 (4): 241-257
- **Digital Light Processing Based Bioprinting with Composable Gradients** *ADVANCED MATERIALS*
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- **A Smartphone-Enabled Portable Digital Light Processing 3D Printer** *ADVANCED MATERIALS*
Li, W., Wang, M., Mille, L., Robledo Lara, J., Huerta, V., Uribe Velazquez, T., Cheng, F., Li, H., Gong, J., Ching, T., Murphy, C. A., Lesha, A., Hassan, et al
2021; 33 (35): e2102153
- **Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices** *NATURE PROTOCOLS*
Aleman, J., Kilic, T., Mille, L. S., Shin, S., Zhang, Y.
2021; 16 (5): 2564-2593
- **Symbiotic Photosynthetic Oxygenation within 3D-Bioprinted Vascularized Tissues** *MATTER*
Maharjan, S., Alva, J., Camara, C., Rubio, A. G., Hernandez, D., Delavaux, C., Correa, E., Romo, M. D., Bonilla, D., Santiago, M., Li, W., Cheng, F., Ying, et al
2021; 4 (1): 217-240
- **Recent Advances in Formulating and Processing Biomaterial Inks for Vat Polymerization-Based 3D Printing** *ADVANCED HEALTHCARE MATERIALS*
Li, W., Mille, L. S., Robledo, J. A., Uribe, T., Huerta, V., Zhang, Y.
2020; 9 (15): e2000156