

# Stanford

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## Judith Mizrachi

MD Student with Scholarly Concentration in Molecular Basis of Medicine, expected graduation Spring 2025

### Bio

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#### EDUCATION AND CERTIFICATIONS

- MD, Stanford University School of Medicine (2025)
- Doctor of Philosophy, Cold Spring Harbor Laboratory , Focus Areas: Optical Physics, Mathematics, Biomedical Engineering, Neuroscience, Microscopy (2020)
- Doctor of Philosophy, S.U.N.Y. State University at Stony Brook , Biomedical Engineering (2020)
- Master of Science, S.U.N.Y. State University at Stony Brook (2018)
- Bachelor of Science, University of Minnesota Twin Cities , Astrophysics (2014)
- Bachelor of Science, University of Minnesota Twin Cities , GSB MBA Mathematics (2014)
- Associate of Arts, Riverland Community College-Austin , GSB MBA Humanities (2010)
- Associate of Arts, Riverland Community College-Austin , Performing Arts (2010)

### Publications

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#### PUBLICATIONS

- **Super-Resolution Oblique Light Sheet Microscopy for Meso- and Nanoscale Mapping of Brain Structure**  
Mizrachi, J., Narasimhan, A., Qi, X., Drewes, R., Palaniswamy, R., Venkataraju, K. U., Albeanu, D. F., Osten, P.  
Cell Reports Methods.  
2024
- **Super Resolution Magnetic Resonance Fingerprinting** *International Society for Magnetic Resonance in Medicine Annual Conference*  
Mizrachi, J., Barbieri, M., Chaudhari, A., Gold, G.  
2023
- **A multimodal cell census and atlas of the mammalian primary motor cortex** *NATURE*  
Callaway, E. M., Dong, H., Ecker, J. R., Hawrylycz, M. J., Huang, Z., Lein, E. S., Ngai, J., Osten, P., Ren, B., Tolias, A., White, O., Zeng, H., Zhuang, et al  
2021; 598 (7879): 86-102
- **Cellular anatomy of the mouse primary motor cortex** *NATURE*  
Munoz-Castaneda, R., Zingg, B., Matho, K. S., Chen, X., Wang, Q., Foster, N. N., Li, A., Narasimhan, A., Hirokawa, K. E., Huo, B., Bannerjee, S., Korobkova, L., Park, et al  
2021; 598 (7879): 159-+
- **Super-resolution light-sheet fluorescence microscopy by SOFI** *bioRxiv*  
Mizrachi, J., Narasimhan, A., Qi, X., Drewes, R., Palaniswamy, R., Wu, Z., Osten, P.  
2020
- **OLST protocol v1 (protocols.io.smwec7e)** *protocols.io*  
Narasimhan, A., Umadevi Venkataraju, K., Mizrachi, J., Albeanu, D. F., Osten, P.

2018

- **SOFIA FORCAST Grism Study of the Mineralogy of Dust in the Winds of Proto-planetary Nebulae: RV Tauri Stars and SRd Variables** *ASTROPHYSICAL JOURNAL*  
Arneson, R. A., Gehrz, R. D., Woodward, C. E., Helton, L. A., Shenoy, D., Evans, A., Keller, L. D., Hinkle, K. H., Jura, M., Lebzelter, T., Lisse, C. M., Rushton, M. T., Mizrachi, et al  
2017; 843 (1)
- **Oblique light-sheet tomography: fast and high resolution volumetric imaging of mouse brains** *bioRxiv*  
Narasimhan, A., Umadevi Venkataraju, K., Mizrachi, J., Albeanu, D. F., Osten, P.  
2017
- **A High Resolution Whole Brain Imaging Using Oblique Light Sheet Tomography** *Bioarxiv*  
Narasimhan, A., Venkataraju, K. U., Mizrachi, J., Albeanu, D., Osten, P.,  
2017
- **Development and Validation of Noninvasive Magnetic Resonance Relaxometry for the In Vivo Assessment of Tissue-Engineered Graft Oxygenation.** *Tissue engineering. Part C, Methods*  
Einstein, S. A., Weegman, B. P., Firpo, M. T., Papas, K. K., Garwood, M.  
2016; 22 (11): 1009-1017
- **Dust in the Winds of Proto-planetary Nebulae: RV Tauri Stars and SRd Variables**  
Gehrz, R. D., Arneson, R., Helton, L. A., Woodward, C. E., Shenoy, D., Evans, A., Aneurin, L., Keller, L. D., Hinkle, K. H., Jura, M., Lebzelter, T., Lisse, C. M., Rushton, et al  
2016: 227
- **Simultaneous Determination of Oxygen Partial Pressure and Temperature of Perfluorohexyloctane with 16.4 Tesla Magnetic Resonance Spectroscopy (MRS)** *University of Minnesota Digital Conservancy*  
Mizrachi, J., et al  
2013
- **MRI in Practice, 4th ed.** *MRI in Practice, 4th ed.* By Catherine Westbrook, Carolyn Kaut Roth, and John Talbot. West Sussex, UK: Wiley-Blackwell, 456 pp., 2011. \$51.99 softcover (ISBN: 978-1444337433) *American Journal of Roentgenology*  
Stoffey, R. D., Mizrachi, J. S.  
2012
- **High Energy Particle Physics, NOvA Neutrino Detector**  
Heller, K., et al  
Fermilab / University of Minnesota.  
2012