

## Nofar Mintz Hemed

Physical Science Research Scientist

T. H. Geballe Laboratory for Advanced Materials

### Bio

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#### BIO

Nofar Hemed received her Ph.D. from Tel-Aviv University (Israel) in 2017 for her work on the performance and reliability of Si nanowire-forest structure for biosensor applications. She joined Stanford on September 2017 as a recipient of the prestigious "The Eric and Wendy Schmidt Postdoctoral Award", and she is currently working on multi-array for electrochemical brain mapping.

#### ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, T. H. Geballe Laboratory for Advanced Materials

#### HONORS AND AWARDS

- Postdoctoral Award Program for Advancing Women in Science, Ben-Gurion University (08/2018)
- VATAT Postdoctoral Award for Excellent candidates, The Council for Higher Education of Israel (07/2017)
- Prize for Initiative and Academic Excellence, Tel-Aviv University (05/2017)
- Marian Gertner Institute for MedicalNanosystems, Marian Gertner (04/2017)
- The Eric and Wendy Schmidt Postdoctoral Award for Women in Mathematical and Computing Sciences, Schmidt foundation (11/2016)
- International Travel Grant, Israeli Ministry of Science (05/2016)

### Publications

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#### PUBLICATIONS

- **A CMOS-based highly scalable flexible neural electrode interface.** *Science advances*  
Zhao, E. T., Hull, J. M., Mintz Hemed, N., Ulu#an, H., Bartram, J., Zhang, A., Wang, P., Pham, A., Ronchi, S., Huguenard, J. R., Hierlemann, A., Melosh, N. A.  
2023; 9 (23): eadf9524
- **On-Demand, Reversible, Ultrasensitive Polymer Membrane Based on Molecular Imprinting Polymer.** *ACS nano*  
Mintz Hemed, N., Leal-Ortiz, S., Zhao, E. T., Melosh, N. A.  
2023
- **An integrated perspective for the diagnosis and therapy of neurodevelopmental disorders - From an engineering point of view.** *Advanced drug delivery reviews*  
Mintz Hemed, N., Melosh, N. A.  
2023; 194: 114723
- **A scalable bonding technique for the development of next-generation brain-machine interfaces**  
Wang, P., Goh, T., Hemed, N., Melosh, N., IEEE  
IEEE.2019: 863–66
- **Local electrochemical control of hydrogel microactuators in microfluidics** *JOURNAL OF MICROMECHANICS AND MICROENGINEERING*  
Engel, L., Liu, C., Hemed, N., Khan, Y., Arias, A., Shacham-Diamand, Y., Krylov, S., Lin, L.  
2018; 28 (10)