Prof. Noa Marom

Talk Title: Machine learning the excited state properties of crystalline organic semiconductors

Bio: Noa Marom received a B.A. in Physics and a B.S. in Materials Engineering, both Cum Laude, from the Technion- Israel Institute of Technology in 2003. From 2002 to 2004 she worked as an Application Engineer in the Process Development and Control Division of Applied Materials. In 2010 she received a Ph.D. in Chemistry from the Weizmann Institute of Science. She was awarded the Shimon Reich Memorial Prize of Excellence for her thesis. She then pursued postdoctoral research at the Institute for Computational Engineering and Sciences (ICES, now the Oden Institute) at the University of Texas at Austin. From 2013 to 2016 she was an Assistant Professor in the Physics and Engineering Physics (PEP) Department at Tulane University. In 2016 she joined the Materials Science and Engineering Department at Carnegie Mellon University as an Assistant Professor. She was promoted to Associated Professor in 2021 and to Professor in 2025. She holds courtesy appointments in the Department of Chemistry and the Department of Physics. She is a member of the Pittsburgh Quantum Institute (PQI) and an affiliate of the Scott Institute for Energy Innovation. Her achievements in research and in large-scale computing have been recognized by several awards, including the Sanibel Symposium Young Investigator Award (2016), NSF CAREER (2016), the DOE Innovative and Novel Computational Impact on Theory and Experiment (INCITE) Award (2017, 2018, 2019), the Charles E. Kaufman Young Investigator Award (2017), the IUPAP Young Scientist Prize in Computational Physics (2018), The George Tallman Ladd Award of the CMU College of Engineering (2020), the ACS COMP OpenEye Outstanding Junior Faculty Award (2021), and the CMU College of Engineering Dean's Early Career Fellowship (2021). In 2025 she was selected as a Fellow of the American Physical Society (APS). She serves as an Associate Editor of npj Computational Materials.

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