

Daniel Mittleman

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Education

Massachusetts Institute of Technology

- BS Physics May 1988

University of California, Berkeley

- MS Physics May 1990
- Ph.D. Physics May 1994

Professional Experience

- TI Visiting Professor, Electrical and Computer Engineering Department,
Rice University 7/22 – 6/23
- Professor, School of Engineering, Brown University 7/15 – present
- Professor, Electrical and Computer Engineering Department,
Rice University 7/08 – 6/15
- Associate Professor, Electrical and Computer Engineering Department,
Rice University 7/04 – 6/08
- Assistant Professor, Electrical and Computer Engineering Department,
Rice University 7/99 – 6/04
- Faculty Fellow, Electrical and Computer Engineering Dept., Rice University 7/96 – 6/99
- Postdoctoral Member of Technical Staff, Advanced Photonics Research Dept.,
Bell Laboratories - Lucent Technologies 4/95 – 8/96
- Postdoctoral Member of Technical Staff, Advanced Lithography Dept.,
AT&T Bell Laboratories 4/94 – 4/95
- Graduate Research Assistant, Physics Department, University of California,
Berkeley & Lawrence Berkeley Laboratory 1/90 – 4/94

Honors and Awards

- Mercator Fellow, Deutsche Forschungsgemeinschaft 2023
- IRMMW-THz Society Exceptional Service Award 2022
- Research Award, Alexander von Humboldt Foundation 2018
- Fellow, American Physical Society 2013
- Fellow, IEEE 2011
- Fellow, Optical Society of America 2009
- IEEE Lasers and Electro-Optics Society Distinguished Lecturer 2002 – 2003
Reappointed 2003 – 2004

Editorial Positions

- Associate Editor *Optica*, 2018 – 2024
- Associate Editor *Advances in Physics X*, 2015 – 2018

- Associate Editor *Optics Express*, Sept. 2007 – Sept. 2013

Highlighted Professional Activities

- General Chair Topical Meeting on Terahertz Science and Applications, 12th International Photonics and Optoelectronics Meetings (POEM), Wuhan China, November 2019
- General co-Chair IEEE ICC Workshop on Terahertz Band Communication Networks for Beyond 5G, Shanghai China, May 2019
- Chair International Society for Infrared Millimeter and Terahertz Waves, 2017 – 2020
- General Co-Chair OSA Topical Meeting on Laser and Terahertz Science and Technology (LTST 2012), Wuhan China, November 2012
- General Chair 36th International Conference on Infrared, Millimeter, and Terahertz Waves, Houston TX, October 2011
- Chair Joint Council on Quantum Electronics, 2006 – 2008
- Co-chair CLEO Pacific Rim 2007 Subcommittee on Terahertz Photonics
- Chair CLEO 2007 Subcommittee on Terahertz Technologies and Applications
- Chair CLEO 2006 Subcommittee on Terahertz Technologies and Applications
- Program co-chair and conference series co-founder OSA Topical Meeting on Optical Terahertz Science and Technology, Orlando FL, March 2005

Mentoring activities

Post-doctoral researchers supervised: 12 (including 1 current)

Graduate students supervised: 28 (including 6 current)

Undergraduate research students supervised: 41 (including 4 current)

Publications

Books: 2

Book chapters: 13

Refereed Journal Articles and Conference Proceedings: 217

Web of Science: *h*-index = 63; citations > 17,000

Google Scholar: *h*-index = 76; citations > 28,000

Invited presentations: more than 200

Professor Mittleman is a global leader in the field of terahertz science and technology. Over the last 25 years, he has discovered numerous important effects and techniques for exploiting terahertz radiation in spectroscopy, sensing, and imaging applications. He participated in the first work on imaging with terahertz pulses, and demonstrated the first time-of-flight terahertz tomography, the first terahertz spatial light modulator, and the first computational terahertz imaging based on compressive sensing. His study on low-loss THz wire waveguides has been referenced over 1000 times. More recently, his group demonstrated the first multiplexer for terahertz wireless systems and reported the first study of security and eavesdropping in a terahertz network. In recognition of this body of work, Dr. Mittleman has been named a Fellow of the Optical Society of America, the American Physical Society, and the IEEE, and in 2018 he was a winner of a Research Award from the Alexander von Humboldt Foundation.