

David C. Tobin

Research Professor
Cooperative Institute for Meteorological Satellite Studies
Space Science and Engineering Center
University of Wisconsin-Madison
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Education:

- Ph.D. Applied Physics, 1996. University of Maryland Baltimore County. Dissertation: *Infrared Spectral Lineshape Studies of Water Vapor and Carbon Dioxide*. Advisor: L. Larrabee Strow.
- M.S. Applied Physics, 1993. University of Maryland Baltimore County. Concentration in optics. Thesis: *Carbon Dioxide Lineshapes in Pi-Sigma and Pi-Delta Vibrational Transitions*.
- B.S. Physics, 1991. University of Maryland Baltimore County.

Professional Experience:

- 1997-present **Researcher/Scientist**, Space Science and Engineering Center, University of Wisconsin-Madison
- 1996-1997 **Associate Researcher (PostDoc)**, Space Science and Engineering Center, University of Wisconsin-Madison, Advisors: William L. Smith and Henry E. Revercomb.
- 1991-1996 **Research Assistant**, Atmospheric Spectroscopy Laboratory, Physics Department, University of Maryland Baltimore County. Advisor: L. Larrabee Strow.
- 1988-1991 **Physical Science Trainee**, Radiometric Physics Division, National Institute of Standards and Technology. Advisor: Kenneth L. Eckerle.

Publications:

- Peer-reviewed Publications: 67; Times cited: 5,726; H-index: 35
- Conference papers and gray literature: approximately 550, viewed online at <https://go.wisc.edu/1zfo220>

Skills/Interests:

- Molecular Spectroscopy
- Infrared Radiative Transfer
- Infrared Remote Sensing
- Earth Energy Balance
- Project Management
- Programming

Funded Projects:

- >\$30M in external awards to date. Funding agencies include NASA, NOAA, DOE

Awards and Honors:

- UW-Madison Research Professor title, 2023
- UW-Madison Distinguished Prefix title, 2019
- UW-Madison Permanent PI Status, 2018
- UW-Madison Chancellor's Award for Excellence in Research: Individual Investigator, 2017
- Young Scientist Award, International Radiation Commission, 2008

Committees, Working Groups, and Science Teams:

- Member (friend), UW-Madison Committee on Disability Access and Inclusion, 2022-
- Representative, Academic Staff Assembly, District 134/357, 2019-
- Chair, Advanced Sounder Working Group, International TOVS Working Group, 2019-
- Past Chair and Member, SSEC Advisory Council, 2018-2023
- Member, Mission Advisory Group, Meteosat Third Generation InfraRed Sounder, 2017-
- Member, ASA Ad-Hoc Committee on Research Scientist Titles, 2017-2018
- Member, International Radiation Commission, 2014-19
- Member, SSEC Equity and Diversity Committee, 2015-16

- UW-Madison Academic Staff Assembly, District 157 Alternate Representative, 2009-11
- Member, Global Space-based Inter-Calibration System Research Working Group, 2006-
- Member, AMS Atmospheric Radiation Committee, 2002-2006
- Member, NASA Atmospheric Infrared Sounder (AIRS) Science Team, 1998-2006
- Member, Atmospheric Radiation Measurements (ARM) Science Team, 1998-2005