Dustin M. Schroeder

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EDUCATION

2014	PhD	Geophysics	University of Texas, Austin
2007	BS	Electrical Engineering	Bucknell University
2007	BA	Physics	Bucknell University, *minors in Mathematics & Philosophy*

APPOINTMENTS

Stanford University (2016 – *present*)

Department of Geophysics

Associate Professor (2022 – *present*)
Assistant Professor (2016 – 2022)

Department of Electrical Engineering

Associate Professor (2022 – *present*)
Assistant Professor by courtesy (2017 – 2022)

Additional Affiliations

Woods Institute for the Environment
Kavli Institute for Particle Astrophysics and Cosmology
Stanford Institute for Human-Centered Artificial Intelligence
Stanford Civics Initiative

NASA's Jet Propulsion Laboratory, California Institute of Technology

Radar Systems Engineer (2014 – 2016)

SELECTED AWARDS

Fellow, American Geophysical Union
James B. Macelwane Medal, American Geophysical Union
Senior Member, Institute of Electrical and Electronics Engineers
Symposium Prize Paper Award, IEEE Geoscience and Remote Sensing Society
CAREER Award, National Science Foundation
JPL Team Award, Europa Mission Instrument Proposal
Frederick E. Terman Fellow, Stanford University
Stanford Leadership Academy
Bass University Fellow in Undergraduate Education, Stanford University
Award for Outstanding Contributions to Undergrad Education, Stanford Electrical Engineering
Excellence in Teaching Award, Stanford School of Earth, Energy, and Environmental Sciences
National Fellowship on the Future of Liberal Education, Teagle Foundation
Distinguished Service Award, National Science Olympiad
Thelma Johnson Showalter Prize, Bucknell University
Phi Beta Kappa, Bucknell University
Tau Beta Pi, Bucknell University

SELECTED PROFESSIONAL ACTIVITIES

International Glaciological Society

Vice President (2025 – *present*), Council Member (2019 – *present*)

Scientific Editor, Journal of Glaciology (2019 – *present*)

Associate Chief Editor, Annals of Glaciology (2019)

Chair, Symposium Scientific and Organizing Committee (2019)

IEEE Geoscience and Remote Sensing Society

Member, Special Awards Committee (2025 – *present*)

Associate Editor, IEEE Transactions on Geoscience and Remote Sensing (2020 – 2026)

Co-Chair, Instruments & Future Technologies - Technical Committee (IFT-TC) (2021 – 2025)

Co-Lead, Active Microwave - Radar and SAR Working Group, IFT-TC (2020 – 2023)

American Geophysical Union

Chair, Cryosphere Sciences Awards Committees (2025 – 2026)

Member, Cryosphere Sciences Section Executive Committee (2022 – 2026)

Member, Cryosphere Sciences Fellows Selection Committees (2022 – 2023)

NASA's Europa Clipper Mission

Science Team Member, REASON Investigation (2015 – *present*)

Co-Chair, Interiors Working Group (2020 – 2023)

National Science Olympiad (Nation's Largest Team-Based Science Competition, 6^{th} -12^{th} Grade)

Faculty Advisor, Golden Gate Science Olympiad & Stanford Science Olympiad (2016– *present*)

Chair, National Earth & Space Sciences Committee (2014 – *present*)

Member, National Earth & Space Sciences Committee (2003 – *present*)

California Council on Science and Technology

Member, Board of Directors (2024 – *present*)

SELECTED UNIVERSITY SERVICE

Department of Geophysics, Stanford Doerr School of Sustainability

Associate Chair (2023 – *present*)

Director of Undergraduate Studies (2017 – *present*)

Department of Electrical Engineering, Stanford School of Engineering

Associate Chair for Undergraduate Education (2024 – *present*)

Executive Committee (2023 – *present*), Academic Affairs Committee (2024 – *present*)

Stanford Introductory Studies, Office of the Vice Provost for Undergraduate Education

Faculty Director (2022 – *present*), COLLEGE 102: Citizenship in the 21^{st} Century

Faculty Senate, Stanford University

Faculty Senator (2018 – 2022, 2024 – 2026)

Vice Chair (2025 – 2026), Steering Committee (2020 – 2022, 2024 – 2026)

PUBLICATIONS

Journal Articles (*student advisee, **postdoctoral advisee, senior author is typically 2nd after advisees)

[119] A.H. Cheng*, **D.M. Schroeder**, N. Wolfenbarger**, R. Shaper*, C Seltzer, B. Hills, Anisotropic Melt Inclusions as a Confounding Signal for Ice-Penetrating Radar Observations, *Geophysical Research Letters*, 2026, 10.1029/2025GL120182

[118] **D.M. Schroeder**, E. Abrahams**, A.L. Broome*, W. Chu, R. Culberg, E.J. Dawson … Next Generation Radar Bed Measurements Should be Optimized for Assimilation or Repeat-Pass Profiling, *Philosophical Transactions of the Royal Society A*, 2026, 10.1098/rsta.2024.0548

[117] N.S. Wolfenbarger**, A.L. Broome*, **D.M. Schroeder**, … Passive Microwave Radiometry and Active Radar Sounding as Complementary Tools for Geophysical Investigation of Icy Ocean Worlds, *Journal of Geophysical Research: Planets*, 2026, 10.1029/2025JE009301

[116] G. Steinbrügge, R.S. Park, J.H. Roberts, M. Bland, S. Brooks, J. Castillo-Rogez, G. Cascioli, A. Genova, … **D.M. Schroeder**, K.M. Soderlund, P. Tortora, M. Zannoni, Geodetic Investigations of the Europa Clipper Mission, *Space Science Reviews*, 2026, 10.1007/s11214-025-01250-x

[115] S.T. Peters, G. Steinbrügge, **D.M. Schroeder**, … Mini-RF X/C-Band Bistatic Synthetic Aperture Radar: Architecture, Polarimetric Observations, and Implications for Future Systems, *IEEE Transactions on Geoscience and Remote Sensing*, 2026, 10.1109/TGRS.2026.3652796

[114] B.H. Hills, M.R. Siegfried, N. Holschuh, H. Verboncoer, **D.M. Schroeder**, Resolving Radiostratigraphy with Squinted Synthetic Aperture Radar Focusing, *Journal of Glaciology,* 2026, 10.1017/jog.2025.10122

[113] D.F. May*, **D.M. Schroeder**, P.T. Summers, T.O. Teisberg*, A.L. Broome*, N.L. Bienert, J. Zak, T.J. Young, …, Polarimetric Multi-Offset Radio-Echo Sounding with a Radio Frequency-over-Fiber ApRES System, *Journal of Glaciology,* 2025, 10.1017/jog.2025.10114

[112] T.O. Teisberg*, **D.M. Schroeder**, P.T. Summers, M. Morlighem, Measurement of Englacial Velocity Fields with Interferometric Radio Echo Sounders, *Journal of Geophysical Research: Earth Surface*, 2025, 10.1029/2025JF008286

[111] A.L. Broome*, **D.M. Schroeder**, T.O. Teisberg*, A Flexible, Open-source, Towed, Coherent, Software-defined Ice-Penetrating Radar System, *IEEE Transactions on Geoscience and Remote Sensing*, 2025, 10.1109/TGRS.2025.3573945

[110] B.H. Hills , T.J. Young, D.A. Lilien … **D.M. Schroeder**, … Radar Polarimetry in Glaciology: Theory, Measurement Techniques, and Scientific Applications for Investigating the Anisotropy of Ice Masses, *Reviews of Geophysics*, 2025, 10.1029/2024RG000842

[109] R.G. Bingham, J.A. Bodart, M.G.P. Cavitte, A. Chung, R.J. Sanderson, … **D.M. Schroeder**, … Antarctica's Internal Architecture: Towards a Radiostratigraphically-Informed Age–Depth Model of the Antarctic Ice Sheets, *The Cryosphere*, 2025, 10.5194/tc-19-4611-2025

[108] M.S. Park*, G. Steinbrügge, E. Wig, **D.M. Schroeder**, E. Mazarico, D.D. Blankenship, Long-Distance Ranging and Velocity Measurements by REASON on Europa Clipper, *Icarus*, 2025, 10.1016/j.icarus.2025.116585

[107] H.D. Pritchard, P. Fretwell, A.C. Fremand, J.A. Bodart, J. Kirkham, … **D.M. Schroeder**, … A. Zirizzotti, Bedmap3 updated ice bed, surface and thickness gridded datasets for Antarctica, *Nature Scientific Data*, 2025, 10.1038/s41597-025-04672-y

[106] N.S. Wolfenbarger[**], D.D. Blankenship, D.A. Young, K.M. Scanlan, …**D.M. Schroeder**, Radar Characterization of Salt Layers in Europa's Ice Shell as a Window into Critical Ice-Ocean Exchange Processes, *Geophysical Research Letters*, 2024, 10.1029/2024GL109144

[105] **D.M. Schroeder**, N.S. Wolfenbarger[**], G.B. Steinbrügge, R. Culberg, S.M. Howell, E. Spiers, M. Styczinski, Constraining the Thickness of the Conductive Portion of Europa's Ice Shell Using Sparse Radar Echoes, *Geophysical Research Letters*, 2024, 10.1029/2024GL110635

[104] K.C. Jezek, M. Brogioni, J.T. Johnson, **D.M. Schroeder**, A.L. Broome, G. Macelloni, Active and Passive Microwave Remote Sensing of Priestly Glacier, Antarctica, *IEEE Transactions on Geoscience and Remote Sensing*, 2024, 10.1109/TGRS.2024.3462268

[103] S.T. Peters, K. Nessly, R.T. Maximillian, **D.M. Schroeder**, A. Romero-Wolf, Spatial Coherence Constraints on Passive Radar Sounding with Radio-Astronomical Sources, *IEEE Transactions on Geoscience and Remote Sensing*, 2024, 10.1109/TGRS.2024.3456049

[102] T.O. Teisberg[*], A.L. Broome[*], **D.M. Schroeder**, Open Radar Code Architecture (ORCA): A Platform for Software-defined Coherent Chirped Radar Systems, *IEEE Transactions on Geoscience and Remote Sensing*, 2024, 10.1109/TGRS.2024.3446368

[101] B.H. Hills, M.R. Siegfried[**], **D.M. Schroeder**, Suppressed Radar Power at the Active Subglacial Lakes of Whillans Ice Plain, West Antarctica, *Geophysical Research Letters,* 2024, 10.1029/2024GL109248

[100] P.T. Summers[*], **D.M. Schroeder,** D.F. May[*], J. Suckale, Evidence for and Against Temperate Ice in Antarctic Shear Margins from Radar-Depth Sounding Data, *Geophysical Research Letters*, 2024, 10.1029/2023GL106893

[99] D.D. Blankenship, A. Moussessian, E. Chapin, D.A. Young, G.W. Patterson, J.J. Plaut, A.P. Freedman, **D.M. Schroeder**, … Radar for Europa Assessment and Sounding: Ocean to Near-surface (REASON), *Space Science Reviews,* 2024, 10.1007/s11214-024-01072-3

[98] R.T. Pappalardo, B.J. Buratti, H. Korth, D.A. Senske, D.L. Blaney, D.D. Blankenship, … **D.M. Schroeder**, … J.A. St. Vaughn, K.P. Clark, J. Vertesi, C. Niebur, Science Overview of the Europa Clipper Mission, *Space Science Reviews,* 2024, 10.1007/s11214-024-01070-5

[97] N.B. Karlsson, **D.M. Schroeder**, L. Sandberg Sørensen, W. Chu , … , R. Dobson[*], …, …, J.E. Steinmetz[*], …, T.O. Teisberg[*], … , A Newly Digitised Ice-penetrating Radar Dataset Acquired over the Greenland Ice Sheet in 1971-1979, *Earth System Science Data*, 10.5194/essd-2023-442

[96] E.J. Dawson[*], **D.M. Schroeder**, W.Chu, E. Mantelli, Hélène Seroussi. Heterogeneous Basal Thermal Conditions Underpinning the Adélie-George V Coast, East Antarctica, *Geophysical Research Letters*, 2024, 10.1029/2023GL105450

[95] A. Romero-Wolf, G. Steinbrügge, J. Castillo-Rogez, C.J. Cochrane, …, N.S. Wolfenbarger[**], **D.M. Schroeder**, S.T. Peters, Feasibility of Passive Sounding of Uranian Moons using Uranian Kilometric Radiation, *Earth and Space Science*, 2024, 10.1029/2023EA003013

[94] I.J. Daubar, A.G. Hayes, G.C. Collins, K. Craft, J.A. Rathbun, J.R. Spencer, D.Y. Wyrick, … **D.M. Schroeder**… H. Korth, D. Senske, R. Pappalardo, Planned Geological Investigations of the Europa Clipper Mission, *Space Science Reviews,* 2024, 10.1007/s11214-023-01036-z

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[92] A.Broome*, **D.M. Schroeder**, J.T. Johnson, Joint Active and Passive Microwave Thermometry of Ice Sheets, *IEEE Transactions on Geoscience and Remote Sensing*, 2023, 10.1109/TGRS.2023.3255219

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[88] **D.M. Schroeder**, Paths Forward in Radioglaciology, *Annals of Glaciology*, 2023, 10.1017/aog.2023.3

[87] M.R. Siegfried, R.A. Venturelli, M.O. Patterson, W. Arnuk, T.D. Campbell, C. D. Gustafson, … **D.M. Schroeder**,… M.L. Skidmore, J.C. Priscu, the SALSA Science Team. The Life and Death of a Subglacial Lake in West Antarctica, *Geology*, 2023, 10.1130/G50995.1

[86] N.L. Bienert*, **D.M. Schroeder**, P.T. Summers. Bistatic Radar Tomography of Shear Margins: Simulated Temperature and Basal Material Inversions, *IEEE Transactions on Geoscience and Remote Sensing*, 2023, 10.1109/TGRS.2022.3213047

[85] O. Soucek, K. Kalousova, **D.M. Schroeder**, N.S. Wolfenbarger, …, Radar Attenuation in Enceladus' Ice Shell: Obstacles and Opportunities for Constraining Shell Thickness, Chemistry, and Thermal Structure, *Journal of Geophysical Research: Planets,* 2023, 10.1029/2022JE007626

[84] R. Culberg*, W. Chu**, **D.M. Schroeder**. Shallow Fracture Buffers High Elevation Runoff in Northwest Greenland, *Geophysical Research Letters*, 2022, 10.1029/2022GL101151

[83] E.J. Dawson*, **D.M. Schroeder**, W.Chu, E. Mantelli, Hélène Seroussi. Basal Thaw Could Drive Widespread Mass Loss from the Antarctic Ice Sheet, *Nature Communications*, 2022, 10.1038/s41467-022-32632-2

[82] A.O. Hager, M.J. Hoffman, S.F. Price, **D.M. Schroeder**. Extensive Channelized Drainage Modeled Beneath Thwaites Glacier, West Antarctica, 2022*, The Cryosphere*, 10.5194/tc-16-3575-2022

[81] T.M. Jordan**, C. Martin, A.M. Brisbourne, **D.M. Schroeder**, A.M. Smith. Radar Characterization of Ice Crystal Orientation Fabric and Anisotropic Viscosity within an Antarctic Ice Stream, *Journal of Geophysical Research: Earth Surface*, 2022, 10.1029/2022JF006673

[80] V. Chirayath, V., E. Bagshaw, … **D.M. Schroeder**, P. Sobron, S. Waller, and D. Winebrenner. Oceans Across the Solar System and the Search for Extraoceanic Life: Technologies for Remote Sensing and In Situ Exploration, *Oceanography*, 2022, 10.5670/oceanog.2021.416

[79] N.L. Bienert*, **D.M. Schroeder**, S.T. Peters*, E.J. MacKie*, E.J. Dawson*, M.R. Siegfried**, … , Post-Processing Synchronized Bistatic Radar for Long Offset Glacier Sounding, *IEEE Transactions on Geoscience and Remote Sensing*, 2022, 10.1109/TGRS.2022.3147172

[78] **D.M. Schroeder**, A. Broome*, A. Conger*, A. Lynch*, E.J. MacKie*, A. Tarzona*. Radiometric Analysis of Digitized Z-Scope Records in Archival Radar Sounding Film, *Journal of Glaciology*, 2022, 10.1017/jog.2021.130

[77] R. Culberg*, **D.M. Schroeder**, G. Steinbrügge**. Double Ridge Formation Over Shallow Water Sills on Jupiter's Moon Europa, *Nature Communications*, 2022, 10.1038/s41467-022-29458-3

[76] J.Z. Miller, R. Culberg*, D.G. Long, …, **D.M. Schroeder**, M.J. Brodzik. An Empirical Algorithm to Map Perennial Firn Aquifers and Ice Slabs within the Greenland Ice Sheet using Satellite L-band Microwave Radiometry, *The Cryosphere,* 2022, 10.5194/tc-16-103-2022

[75] G. Steinbrügge**, M. Haynes, **D.M. Schroeder**, K.M. Scanlan, A. Stark, …, D.D. Blankenship. Altimetry Measurements from Planetary Radar Sounders and Application to SHARAD on Mars, *IEEE Transactions on Geoscience and Remote Sensing*, 2021, 10.1109/TGRS.2021.3134638

[74] M.G.P. Cavitte, D.A. Young, R. Mulvaney, C. Ritz, J.S. Greenbaum, …, **D.M. Schroeder**, D.D. Blankenship, A Detailed Radiostratigraphic Data Set for the Central East Antarctic Plateau Spanning the Last Half Million Years, *Earth System Science Data*, 2021, 10.5194/essd-2020-393

[73] W. Chu**, A. Hilger*, R. Culberg*, **D.M. Schroeder**, T.M. Jordan**, …, D.G. Vaughan. Multi-System Synthesis of Radar Sounding Observations of the Amundsen Sea Sector from the 2004-2005 Field Season, *Journal of Geophysical Research,* 2021, 10.1029/2021JF006296

[72] **D.M. Schroeder,** G. Steinbrügge**, Alternatives to Liquid Water Beneath the South Polar Ice Cap of Mars, *Geophysical Research Letters*, 2021, 10.1029/2021GL095912

[71] T.M. Roberts, A. Romero-Wolf, L. Bruzzone, L. Carrer, S.T. Peters, **D.M. Schroeder**. Conditioning Jovian Burst Signals for Passive Sounding Applications, *IEEE Transactions on Geoscience and Remote Sensing*, 2021, 10.1109/TGRS.2021.3109106

[70] A. Broome*, **D.M. Schroeder**. A Radiometrically Precise Multi-frequency Ice-Penetrating Radar Architecture, *IEEE Transactions on Geoscience and Remote Sensing*, 2021, 10.1109/TGRS.2021.3099801

[69] S.T. Peters*, **D.M. Schroeder**, W. Chu**, D. Castelletti**, M.S. Haynes, A. Romero-Wolf. Glaciological Monitoring Using the Sun as a Radio Source for Echo Detection, *Geophysical Research Letters,* 2021, 10.1029/2021GL092450

[68] R. Culberg*, **D.M. Schroeder**, W. Chu**. Extreme Melt Season Ice Layers Reduce Firn Permeability Across Greenland, *Nature Communications*, 2021, 10.1038/s41467-021-22656-5

[67] T.J. Young, **D.M. Schroeder**, …, N.L. Bienert*. Inferring Ice Fabric from Birefringence Loss in Airborne Radargrams: Application to the Eastern Shear Margin of Thwaites Glacier, West Antarctica, *Journal of Geophysical Research: Earth Surface*, 2021, 10.1029/2020JF006023

[66] J.T. Bessette*, **D.M. Schroeder**, T.M. Jordan**, J.A. MacGregor. Radar-Sounding Characterization of the Subglacial Groundwater Table Beneath Hiawatha Glacier, Greenland, *Geophysical Research Letters,* 2021, 10.1029/2020GL091432

[65] T.J. Young, C. Martin, P. Christoffersen, **D.M. Schroeder**, S. Tulaczyk, E. Dawson*. Rapid and Accurate Polarimetric Radar Measurements of Ice Crystal Fabric Orientation at the Western Antarctic Ice Sheet Divide Deep Ice Core Site, *The Cryosphere,* 2021, 10.5194/tc-15-4117-2021

[64] S.T. Peters[*], **D.M. Schroeder**, M.S. Haynes, A. Romero-Wolf. Passive Synthetic Aperture Radar Imaging Using Radio-Astronomical Sources, *IEEE Transactions on Geoscience and Remote Sensing*, 2021, 10.1109/TGRS.2021.3050429

[63] G. Steinbrügge[**], M. Dumberry, A. Rivoldini, G. Schubert, H. Cao, **D.M. Schroeder**, K.M. Soderlund. Challenges on Mercury's Interior Structure Posed by the New Measurements of its Obliquity and Tides, *Geophysical Research Letters*, 2021, 10.1029/2020GL089895

[62] E.J. MacKie[*], **D.M. Schroeder**, C. Hou, Z. Yin, J. Caers. Stochastic Modeling of Subglacial Topography Exposes Uncertainty in Water Routing at Jakobshavn Glacier, *Journal of Glaciology* 2021, 10.1017/jog.2020.84

[61] G. Steinbrügge[**], J.R.C. Voigt, N.S. Wolfenbarger, C.W. Hamilton, K.M. Soderlund, D.A. Young, D.D. Blankenship, S.D. Vance, **D.M. Schroeder**. Brine Migration and Impact-Induced Cryovolcanism on Europa, *Geophysical Research Letters*, 2020, 10.1029/2020GL090797

[60] **D.M. Schroeder**, R.G. Bingham, D.D. Blankenship, K. Christianson, O. Eisen, G.E. Flowers, N.B. Karlsson, M.R. Koutnick, J.D. Paden, M.J. Siegert. Five Decades of Radioglaciology, *Annals of Glaciology*, 2020, 10.1017/aog.2020.11

[59] L. Carrer, **D.M. Schroeder**, …, L. Bruzzone. Analysis of Temporal and Structural Characteristics of Jovian Radio Emissions for Passive Radar Sounding of Jupiter's Icy Moons, *IEEE Transactions on Geoscience & Remote Sensing*, 2020, 10.1109/TGRS.2020.3023249

[58] R. Delf, **D.M. Schroeder**, A. Curtis, A. Giannopoulos, R.G. Bingham. A Comparison of Automated Approaches to Extracting Englacial-Layer Geometry Across Ice Sheets, *Annals of Glaciology*, 2020, 10.1017/aog.2020.42

[57] S.T. Peters[*], **D.M. Schroeder**, A. Romero-Wolf. Passive Radio Sounding to Correct for Europa's Ionospheric Distortion of VHF Signals, *Planetary and Space Science*, 2020, 10.1016/j.pss.2020.104925

[56] O. Bartlett, S.J. Palmer, **D.M. Schroeder**, E.J. MacKie[*], T.T. Barrows, ... Geospatial Simulations of Airborne Ice-Penetrating Radar Surveying Reveal Elevation Under-Measurement Bias for Ice Sheet Bed Topography, *Annals of Glaciology*, 2020, 10.1017/aog.2020.35

[55] R. Culberg[*], **D.M. Schroeder**. Near-Surface Clutter Constraints on Orbital Radar Sounder Design and Performance, *IEEE Transactions on Geoscience and Remote Sensing*, 2020, 10.1109/TGRS.2020.2976666

[54] M. Goldberg[*], **D.M. Schroeder**, D. Castelletti[**], E. Mantelli[**], N. Ross, M.J. Siegert. Automated Detection and Characterization of Antarctic Basal Units Using Radar Sounding Data: Demonstration in Institute Ice Stream, West Antarctica, *Annals of Glaciology*, 2020, 10.1017/aog.2020.27

[53] E. J. MacKie[*], **D. M. Schroeder**, J. Caers, M. R. Siegfried[**], C. Scheidt. Antarctic Topographic Realizations and Geostatistical Modeling Used to Map Subglacial Lakes, *Journal of Geophysical Research: Earth Surface*, 2020, 10.1029/2019JF005420

[52] I.M. Shoemaker, A. Kusenko, P.K. Munneke, A. Romero-Wolf, **D.M. Schroeder**, M.J. Siegert. Reflections on the Anomalous ANITA Events: The Antarctic Subsurface as a Possible Explanation, *Annals of Glaciology*, 2020, 10.1017/aog.2020.19

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[49] G. Steinbrügge[**], J.R.C. Voight, **D.M. Schroeder**, A. Stark, M.S. Haynes, K.M. Scanlan, C.W. Hamilton, D.A. Young, H. Hussman, C. Grima, D.D. Blankenship. The Surface Roughness of Europa derived from Galileo Stereo Images, *Icarus*, 2020, 10.1016/j.icarus.2020.113669

[48] C. Ellworth[*], **D.M. Schroeder**, M.R. Siegfried[**]. Interpreting Englacial Layer Deformation in the Presence of Complex Ice Flow History with Synthetic Radargrams, *Annals of Glaciology*, 2020, 10.1017/aog.2019.41

[47] C. Culha[*], **D.M. Schroeder**, T.M. Jordan[**], M. Haynes. Assessing the Detectability of Europa's Eutectic Zone Using Radar Sounding, *Icarus*, 2020, 10.1016/j.icarus.2019.113578

[46] **D.M. Schroeder**, E.M. MacKie[*], T.T. Creyts, J.B. Anderson. A Subglacial Hydrologic Drainage Hypothesis for Silt Sorting and Deposition During Retreat in Pine Island Bay, *Annals of Glaciology*, 2019, 10.1017/aog.2019.44

[45] K. Winter, J. Woodward, N. Ross, S.A. Dunning, A.S. Hein, M.J. Westoby, R. Culberg[*], S. Marrero, **D.M. Schroeder**, D.E. Sugden, M.J. Siegert. Radar-Detected Englacial Debris in the West Antarctic Ice Sheet, *Geophysical Research Letters*, 2019, 10.1029/2019GL084012

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RECENT INVITED TALKS

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Earth System Science Interdisciplinary Center, University of Maryland

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ADVISING

Postdoctoral Scholar Advising

2024 – 2025	Ellie Abrahams	Now: Research Technology Consultant, Stanford University
2023 – 2024	Natalie Wolfenbarger	Now: Remote Sensing Scientist at Los Alamos National Lab
2019 – 2021	Gregor Steinbrügge	Now: Planetary Scientist, NASA JPL
2017 – 2020	Winnie Chu	Now: Assistant Professor, Earth & Atmos. Sciences, Georgia Tech
2017 – 2020	Tom Jordan	Now: Earth Observing Scientist, Plymouth Marine Laboratory
2017 – 2019	Davide Castelletti	Now: Earth Observation Engineer, European Space Agency
2017 – 2019	Matthew Siegfried	Now: Associate Professor, Geophysics, Colorado School of Mines
2017 – 2019	Elisa Mantelli	Now: Associate Professor, Geophysics, LMU Munich

Doctoral Student Advising

2024 – *present*	Sunme Zhao	Geophysics	
2024 – *present*	Annie Cheng	Physics	
2024 – *present*	Oliver Pranis	Electrical Eng.	
2021 – *present*	Daniel May	Geophysics	
2020 – 2025	Thomas Teisberg	Electrical Eng.	Now: Research Scientist, Astera
2019 – 2024	Anna Broome	Electrical Eng.	Now: Research Engineer, Sania National Lab
2018 – 2024	Eliza Dawson	Geophysics	Now: NOAA C&GC Postdoc at Georgia Tech
2018 – 2022	Riley Culberg	Electrical Eng.	Now: Assistant Professor, Cornell University
2018 – 2022	Nicole Bienert	Electrical Eng.	Now: Assistant Professor, University of Colorado
2020 – 2021	Emma MacKie	Geophysics	Now: Assistant Professor, University of Florida
2016 – 2020	Sean Peters	Electrical Eng.	Now: Assistant Professor, University of Colorado

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2024	Annie Cheng	Winner, AGU Outstanding Student Presentation Award
2023	Eliza Dawson	Winner, AGU Outstanding Student Presentation Award
2023	Emma MacKie	Winner, IGS Graham Cogley Award
2022	Riley Culberg	Technical Presentation Award, NDSEG Conference
2022	Anna Broome,	Finalist, IGARSS Best Student Paper
2021	Thomas Teisberg	2nd Place, IGARSS Best Student Paper
2021	Emma MacKie	Finalist, IGARSS Best Student Paper
2021	Nicole Bienert	Symposium Prize Paper Award, Best Paper IGARSS 2020
2020	Riley Culberg	Mikio Takagi Student Prize, 1st Place IGARSS Best Student Paper
2019	Sean Peters	2nd Place, IGARSS Best Student Paper