

Entekhabi_CV

Dara Entekhabi

Date: April 12, 2019

Country of Origin: Iran

Date of Birth: January 1961

Country of Citizenship: United States

Department: Department of Civil and Environmental Engineering

Education Records

Institution	Degree	Date	Specialization	Thesis Title
M.I.T.	Ph.D., Department of Civil Engineering	January 1990		Landsurface Hydrology Parameterization for Atmospheric General Circulation Models: Inclusion of Subgrid Scale Spatial Variability and Screening with a Simple Climate Model
Clark University	M.A., School of Geography	June 1987		
Clark University	M.A., School of Geography	June 1984		
Clark University	B.A., School of Geography	June 1983		

Fields of Interest

Field of Interest

Remote Sensing

Land-Atmosphere Interaction

Data Assimilation

MIT Appointments

Title	Type	Department	Begin Date	End Date
Professor/Joint	Additional Appointment	Dept of Earth, Atmospheric, & Planetary Sciences	7/1/2000	-
Professor	Primary Appointment	Department of Civil and Environmental Engineering	7/1/2000	-
Associate Professor/Joint (Wt)	Additional Appointment	Earth, Atmospheric & Planetary Sciences	2/27/1998	6/30/2000
Associate Professor with tenure	Primary Appointment	Civil and Environmental Engineering	7/1/1997	6/30/2000
Associate Professor without tenure	Primary Appointment	Civil and Environmental Engineering	7/1/1995	6/30/1997
Assistant Professor	Primary Appointment	Civil and Environmental Engineering	7/1/1991	6/30/1995
Visiting Assistant Professor	Primary Appointment	Civil and Environmental Engineering	8/1/1990	6/30/1991
Postdoctoral Associate	Primary Appointment	Civil and Environmental Engineering	9/7/1989	7/31/1990

Non-MIT Experience

Employer	Title	Begin Date	End Date
University of Arizona	Assistant Professor	September 1990	August 1991
Clark University	Teaching Assistant	September 1983	December 1983
Clark University	Research Assistant	January 1983	August 1985

Honors and Awards

Award Name	Date
Outstanding Visiting Professorship, Tsinghua University	2019
Neil Armstrong Distinguished Visiting Professorships, Purdue University	2018
American Meteorological Society's Dave & Lucille Atlas Remote Sensing Prize	2017
NASA Group Achievement Award	2017
NASA Outstanding Public Leadership Medal	2017
National Academy of Engineering Member	2017
Hydrology Days Award	2016
Eagleson Lecture	2016

Institute of Electrical and Electronics Engineers, Inc. (IEEE) Fellow	2015
Hydrologic Sciences Award	2015
2014 Boussinesq Lecture, The Netherlands	2014
Robert E. Horton Lecture (AMS)	2012
American Meteorological Society (AMS), Fellow	2003
AGU James B. Macelwane Medal	1996
AGU Macelwane Young Scientist Medal	1996
American Geophysical Union (AGU), Fellow	1996
Istituto Veneto di Scienze, Lettere ed Arti, Cav. Arturo Parisatti Prize	1994
National Science Foundation (NSF), Presidential Young Investigator	1991

Professorships

Title	Type	Begin Date	End Date
Bacardi and Stockholm Water Foundations Professor	Full Chair	7/1/2004	6/30/2019
Gilbert Winslow Career Development Chair (MIT)		January 1994	January 1994

Research/Thesis

PhD as Supervisor

Student Name(s)	Thesis Title	Thesis Date	Department Name	Institution Name
Salvucci, Guido D.	Hillslope and climatic influences on hydrologic flux	May 1994	Civil Engineering	MIT
Brubaker, Kaye L.	Nonlinear dynamics of water and energy balance in land-atmosphere interaction	November 1994	Civil and Environmental Engineering	MIT
Reichle, Rolf	Four-dimensional data assimilation of soil moisture and temperature (joint with D. McLaughlin)	September 2000		MIT
Plaut, Karen	Hydrologic response over complex terrain	January 2001		MIT
Margulis, Steve	Adjoint sensitivity of coupled land-atmosphere system	January 2002	Civil and Environmental Engineering	MIT
Vivoni, Enrique	Distributed hydrology and hydrometeorological forecast system	May 2003	Civil and Environmental Engineering	MIT
Gong, Gavin	Eurasian snow cover teleconnections to extratropical climate variability	May 2003	Civil and Environmental Engineering	MIT
Zhou, Yuhua	Ensemble Kalman filter data assimilation of active and passive microwave measurements (joint with D. McLaughlin).	May 2005		MIT
Dunne, Susan	Development of a data assimilation framework for the estimation of soil moisture and surface fluxes from radiative brightness temperatures	January 2006	Civil and Environmental Engineering	MIT
Chatdarong, Virat	Data assimilation for multiscale and dynamic rain-fields, expected May 2006 (joint with D. McLaughlin).	May 2006		MIT
Ahanin, Adel	Hybrid ensemble and reduced rank data assimilation (joint with D. McLaughlin).	September 2008	Civil and Environmental Engineering	MIT
Ng, Gene-Hua	Estimation of spatial recharge (joint with D. McLaughlin).	September 2009		MIT
Gentine, Pierre	Coupled water and energy balance dynamics at land surfaces	February 2010	Civil and Environmental Engineering	MIT
Bateni, Mojtaba	Soil heat diffusion and surface flux estimation	September 2012		MIT
Farhadi, Leila	Surface partitioning remote sensing	December 2012		MIT

Castillo, Aldrich	Distributed hydrologic modeling	May 2014	Civil and Environmental Engineering	MIT
Magnusson, Sigurdur Petur	Large-eddy simulation of urban canyon flows	May 2014		MIT
Alemohammad, Hamed	Stochastic ensemble rainfall generation	September 2014		MIT
Konings, Alex	Microwave remote sensing of water in the soil-plant system	August 2015	Civil and Environmental Engineering	MIT
Whittleston, David	Sea-ice influence on winter-time Arctic Oscillation, expected December 2015.	December 2015		MIT
Kaighin McColl	Spectral modeling of non-local transport in turbulent boundary layers	12/31/2016		MIT
David Whittleston	Isolating the atmospheric response to regional Arctic sea ice and snow cover anomalies	6/1/2017		MIT
Master's				
Student Name(s)	Thesis Title	Thesis Date	Department Name	Institution Name
Brubaker, Kaye L.	Atmospheric water vapor transport: Estimation of continental recycling and parameterization of a simple climate model	July 1991		MIT
Johnson, Kevin D.	The implementation and validation of improved landsurface hydrology in an atmospheric general circulation model	July 1991	Civil Engineering	MIT
Wynn, Jennifer K.	Seasonal and geographic variability in rainstorm parameter distributions	May 1994	Civil Engineering	MIT
Gong, Gavin D.	The role of fractional rainfall coverage in atmospheric General Circulation model hydrologic processes	May 1994	Civil Engineering	MIT
Scott, Russell	The role of landsurface hydrology in GCM climate variability	August 1994	Civil Engineering	MIT
Ateljevich, Eli S.	Equilibrium seasonal water balance over complex topography	August 1995	Civil and Environmental Engineering	MIT
Long, Marybeth	Interannual variability in atmospheric water vapor transport over north European and West African regions	January 1996	Civil and Environmental Engineering	MIT
Primus, Ida	Scale-recursive estimation of precipitation using remote sensing data (S. M., joint with Professor McLaughlin).	June 1996	Civil and Environmental Engineering	MIT
Marder-Vaughn, Stephanie	Climatology of the Great Plains Low Level Jet using balanced flow model with linear friction	June 1996	Civil and Environmental Engineering	MIT
Martello, Robert	Land-atmosphere interaction and atmospheric mixed layer height evolution	June 1996		MIT
DeLuca, Cecelia	Means and variability of some aspects of the hydrological cycle (joint with Professor Peter Stone of MITEAPS).	August 1996	MITEAPS	MIT
Wetzel, Suzanne W.	An investigation of wave-induced momentum flux through phase averaging of open ocean wind and wave fields (reader of MITWHOI Joint Program Thesis).	August 1996	MITWHOI Joint Program	MIT
Hom, Conan	Hourly realizations of precipitation from poisson rectangular pulse storms	December 1997		MIT
Friedman, Karen S.	Interannual variability in GCM hydrologic cycle	December 1997		MIT
DeSilva, Radhika	Consistency in water balance models in different systems of the MIT Global Change Integrated Assessment	May 1998		MIT
Margulis, Steve	Temporal disaggregation of satellite-derived monthly precipitation estimates for use in hydrologic applications	May 1998	Civil and Environmental Engineering	MIT
Pinheiro, Ana	Relationship between satellite-derived NDVI and surface hydrology	June 1998	Civil and Environmental Engineering	MIT
Limbrunner, James	Climatic elasticity of streamflow in the United States (student of Professor Richard Vogel, Tufts University)	August 1998		Tufts University
Kistler, Michael	Simulation of the U.S. Great Plains low-level jet using spatiallycoupled mixed layer models	January 1999	Civil and Environmental Engineering	MIT
Saito, Kazuyuki	Pathways of Eurasian snow cover impacts on wintertime extratropical climate variability	May 2000	Earth, Atmospheric, and Planetary Sciences	MIT
Patel, Jiganesh	The use of satellite remote sensing to determine land water runoff	May 2001	Earth, Atmospheric, and Planetary Sciences	MIT

Dunne, Susan	Hydrology and terrestrial ecology component in the MIT Integrated Assessment framework	January 2002	Civil and Environmental Engineering	MIT
Van Horne, Matt	Multiscale precipitation nowcasting	May 2003	Civil and Environmental Engineering	MIT
Spyropoulou, Katerina	Interpretation of tectonics from digital elevation data in the San Gabriel Mountains, CA : Evaluation of methods and data sources	May 2003		MIT
Lundgren, Elizabeth	Snow-Atmosphere coupling over Eurasia and its response to climate change	May 2009	Civil and Environmental Engineering	MIT
Natale, Elisabetta	Dam-break analysis in Chile	May 2009	Civil and Environmental Engineering	MIT
Fletcher, Sarah	Risk Assessment of Groundwater Contamination from Hydraulic Fracturing Fluid Spills in Pennsylvania	May 2012	Engineering Systems Division	MIT

Publications

Papers in refereed journals

Publication Name and Url	Publication Date
Nicholson, S. E. and D. Entekhabi, 1986: The quasi-periodic behavior of rainfall variability in Africa and its relationship to the Southern Oscillation, Archives for Meteorology, Geophysics, and Bioclimatology, Series A., 34, 311-348.	1986
Nicholson, S. E. and D. Entekhabi, 1987: Rainfall variability in Equatorial and Southern Africa: Relationship with sea surface temperatures along the Southwestern coast of Africa, Journal of Climate and Applied Meteorology, 26(5), 561-578.	1987
Entekhabi, D., I. Rodriguez-Iturbe, and P. S. Eagleson, 1989: Probabilistic representation of the temporal rainfall process by a modified Neyman-Scott rectangular pulses model: Parameter estimation and validation, Water Resources Research, 25(2), 295-302.	1989
Entekhabi, D. and P. S. Eagleson, 1989: Land surface hydrology parameterization for atmospheric General Circulation models including subgrid scale spatial variability, Journal of Climate, 2(8), 816-831.	1989
Islam, S., D. Entekhabi, R. L. Bras and I. Rodriguez-Iturbe, 1990: Parameter estimation and sensitivity analysis of the modified Bartlett- Lewis rectangular pulses model, Journal of Geophysical Research, 95 (D3), 2093-2100.	1990
Entekhabi, D. and P. S. Eagleson, 1991: Climate and the equilibrium state of land surface hydrology parameterizations, Surveys in Geophysics, 12, 205-220.	1991
Rodriguez-Iturbe, I., D. Entekhabi, J.-S. Lee and R. L. Bras, 1991: Nonlinear dynamics of soil moisture at climate scales, 2. Chaotic analysis, Water Resources Research, 1907-1916.	1991
Rodriguez-Iturbe, I., D. Entekhabi and R. L. Bras, 1991: Nonlinear dynamics of soil moisture at climate scales, 1. Stochastic analysis, Water Resources Research, 27(8), 1899-1906. Outgrowth of supervised student research	1991
Cabral, M. C., L. Garrote, R. L. Bras and D. Entekhabi, 1992: Kinematic infiltration in vertically homogeneous anisotropic and sloped soils, Advances in Water Resources, 15, 311-324.	1992
Entekhabi, D., I. Rodriguez-Iturbe and R. L. Bras, 1992: Variability in large-scale water balance with landsurface-atmosphere interaction, Journal of Climate, 5(8), 798-813.	1992
Johnson, K. D., D. Entekhabi and P. S. Eagleson, 1993: The implementation and validation of improved landsurface hydrology in an atmospheric general circulation model, Journal of Climate, 6(6), 1009-1026.	1993
Brubaker, K. L., D. Entekhabi and P. S. Eagleson, 1993: Estimation of continental precipitation recycling, Journal of Climate, 6(6), 1077-1089.	1993
Entekhabi, D., 1994: A simple model of hydrologic cycle and climate: 1. Model construct and sensitivity to landsurface boundary, Advances in Water Resources, 17, 79-91.	1994
Salvucci, G. D. and D. Entekhabi, 1994: Explicit expressions for Green- Ampt (delta function diffusivity) infiltration rate and cumulative storage, Water Resources Research, 30(9), 2661-2663.	1994
Salvucci, G. D. and D. Entekhabi, 1994: Comparison of the Eagleson statisticaldynamical water balance model with numerical simulations, Water Resources Research, 30(10), 2751-2758.	1994
Salvucci, G. D. and D. Entekhabi, 1994: Equivalent steady soil moisture profile and time compression approximation in water balance modeling, Water Resources Research, 30(10), 2737-2750.	1994
Brubaker, K. L., D. Entekhabi and P. S. Eagleson, 1994: Atmospheric water vapor transport and continental hydrology over the Americas, Journal of Hydrology, 155, 407-428.	1994
Gong, G., D. Entekhabi and G. D. Salvucci, 1994: Regional and seasonal estimates of spatial rainstorm coverage based on station precipitation observations, Journal of Climate, 7(10), 1495-1505.	1994
Entekhabi, D., H. Nakamura and E. G. Njoku, 1994: Solving the inverse-problem for soil moisture and temperature profiles by sequential assimilation of multifrequency remotely sensed observations, IEEE Transactions on Geoscience and Remote Sensing, 32(2), 438-448.	1994
Entekhabi, D. and I. Rodriguez-Iturbe, 1994: An analytic framework for the characterization of the space-time variability of soil moisture, Advances in Water Resources, 17, 25-45.	1994
Entekhabi, D., K. L. Brubaker and P. S. Eagleson, 1994: A simple model of hydrologic cycle and climate: 2. Observational evidence for the parameterization of atmospheric heat and moisture divergence, Advances in Water Resources, 17, 93-100.	1994
Brubaker K. L. and D. Entekhabi, 1995: An analytic approach to modeling landatmosphere interaction: 1. Construct and equilibrium behavior, Water Resources Research, 31(3), 619-632.	1995

Rodriguez-Iturbe, I., G. K. Vogel, R. Rigon, D. Entekhabi, F. Castelli and A. Rinaldo, 1995: On the spatial organization of soil moisture fields, <i>Geophysical Research Letters</i> , 22(20), 2757-2760.	1995
Njoku, E. G. and D. Entekhabi, 1995: Passive microwave remote sensing of soil moisture, <i>Journal of Hydrology</i> , 184(1), 101-130.	1995
Entekhabi, D., I. Rodriguez-Iturbe and F. Castelli, 1995: Mutual interaction of soil moisture state and atmospheric processes, <i>Journal of Hydrology</i> , 184(1), 3-18.	1995
Salvucci, G. D. and D. Entekhabi, 1995: Ponded infiltration into soils bounded by a water table, <i>Water Resources Research</i> , 31(11), 2751- 2759.	1995
Scott, R., R. Koster, D. Entekhabi and M. Suarez, 1995: Effect of canopy interception reservoir on hydrologic persistence in a general circulation model, <i>Journal of Climate</i> , 8(7), 1917-1922.	1995
Entekhabi, D., 1995: Recent advances in land-atmosphere interaction research, <i>Reviews of Geophysics</i> , 995-1003.	1995
Salvucci, G. D. and D. Entekhabi, 1995: Hillslope and climatic controls on hydrologic fluxes, <i>Water Resources Research</i> , 31(7), 1725-1740.	1995
Entekhabi, D. and K. L. Brubaker, 1995: An analytic approach to modeling land-atmosphere interaction: 2. Stochastic extension, <i>Water Resources Research</i> , 31(3), 633-644.	1995
Risbey, J. S. and D. Entekhabi, 1996: Observed Sacramento basin streamflow response to precipitation and temperature changes and its relevance to climate impact studies, <i>Journal of Hydrology</i> , 184, 209-223.	1996
Castelli, F. I. Rodriguez-Iturbe and D. Entekhabi, 1996: An analytical framework for the modeling of the spatial interaction between the soil moisture and atmosphere, <i>Journal of Hydrology</i> , 184(1), 19-34.	1996
Brubaker, K. L. and D. Entekhabi, 1996: Analysis of feedback mechanisms in land-atmosphere interaction, <i>Water Resources Research</i> , 32(5), 1343-1357.	1996
Brubaker, K. L. and D. Entekhabi, 1996: Asymmetric recovery from dry-vs-wet soil moisture anomalies, <i>Journal of Applied Meteorology</i> , 35(1), 94-109.	1996
Caporali, E., D. Entekhabi, F. Castelli, 1996: Rainstorm statistics conditional on soil moisture index: Temporal and spatial characteristics, <i>Meccanica</i> , 31, 103- 116.	1996
Wang, J., R. L. Bras and D. Entekhabi, 1997: Structures in fluctuations of largescale soil moisture climate due to external random forcing and internal feedbacks, <i>Journal of Stochastic Hydrology and Hydraulics</i> , 11, 95-114.	1997
Kim, C. P. and D. Entekhabi, 1997: Examination of two methods for estimating regional evapotranspiration using a coupled mixed-layer and surface model, <i>Water Resources Research</i> , 33(9), 2109-2116.	1997
Liu, Z., J. B. Valdes and D. Entekhabi, 1997: Merging forecasts of drought index anomalies along the Gulf Coast in the U.S. using multiple precursors with a Kalman filter, <i>Experimental Long-Lead Forecast Bulletin</i> , 6(1), 38-40.	1997
Marani, M., G. Grossi, F. Napolitano, M. Wallace and D. Entekhabi, 1997: Forcing, intermittency and land surface hydrology partitioning, <i>Water Resources Research</i> , 33(1), 167-176.	1997
Scott, R., D. Entekhabi, R. D. Koster and M. J. Suarez, 1997: Time scales of land surface evapotranspiration response, <i>Journal of Climate</i> , 10(4), 559-566.	1997
Kim, C. P. and D. Entekhabi, 1998: Analysis of feedback mechanisms in the uncoupled and coupled land surface and mixed layer energy budgets, <i>Boundary Layer Meteorology</i> , 88, 1-21.	1998
Cohen, J. and D. Entekhabi, 1998: Eurasian snow cover variability and Northern Hemisphere climate predictability, <i>Geophysical Research Letters</i> , 26(3), 345-348.	1998
Galantowicz, J. F., D. Entekhabi and E. G. Njoku, 1998: Tests of sequential data assimilation for retrieving profile soil moisture and temperature from observed L band radiobrightness, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 37(4), 1860-1870.	1998
Kim, C. P., and D. Entekhabi, 1998: Impact of soil heterogeneity in a mixed-layer model of the planetary boundary layer, <i>Hydrological Sciences Journal</i> , 43(4), 633-658.	1998
Liu, Z., J. B. Valdes and D. Entekhabi, 1998: Merging and error analysis of regional hydrometeorology anomaly forecasts conditioned on climate precursors, <i>Water Resources Research</i> , 34(8), 1959-1970.	1998
Kim, C. P., G. D. Salvucci, and D. Entekhabi, 1999: Groundwater surface water interaction and the climatic spatial patterns of hillslope hydrologic response, <i>Hydrology and Earth Systems Science</i> , 3(3), 375- 384.	1999
Castelli, F., D. Entekhabi, and E. Caporali, 1999: Estimation of surface heat flux and an index of soil moisture using adjoint-state surface energy balance, <i>Water Resources Research</i> , 35(10), 3115-3126.	1999
Entekhabi, D. G. R. Asrar, A. K. Betts, K. J. Beven, R. L. Bras, C. J. Duffy, T. Dunne, R. D. Koster, D. P. Lettenmaier, D. B. McLaughlin, W. J. Shuttleworth, M. T. van Genuchten, M.-Y. Wei, E. F. Wood, 1999: An Agenda for land-surface hydrology research and a call for the second International Hydrological Decade, <i>Bulletin of the American Meteorological Society</i> , 80(10), 2043-2058.	1999
Galantowicz, J. F., D. Entekhabi and E. G. Njoku, 2000: Estimation of soil type heterogeneity effects in the retrieval of soil moisture from radiobrightness, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 38(1), 312-316.	2000
Entekhabi, D., 2000: Meeting report: Predictability and limits-to-prediction in hydrologic systems, <i>EOS</i> , 82(2), page 14.	2000
Entekhabi, D., 2000: A Report and A Call by the National Research Council's Committee on Hydrologic Science, <i>EOS</i> , 81(24), 267.	2000
Long, M., D. Entekhabi and S. E. Nicholson, 2000: Interannual variability in rainfall, water vapor flux, and vertical motion over West Africa, <i>Journal of Climate</i> , 13(21), 3827-3841.	2000
Reichle, R., D. B. McLaughlin, and D. Entekhabi, 2001: Variational data assimilation of microwave radiobrightness observations for land surface hydrologic applications, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 39(8), 1708-1718.	2001
Primus Gorenburg, I., D. B. McLaughlin and D. Entekhabi, 2001: Scale-recursive assimilation of precipitation data, <i>Advances in Water Resources</i> , 24(9-10), 941- 953.	2001

Plaut-Berger K. and D. Entekhabi, 2001: Basin hydrologic response relations to distributed physiographic descriptors and climate, <i>Journal of Hydrology</i> , 247, 169-182.	2001
Margulis, S. and D. Entekhabi, 2001: A coupled land surface-boundary layer model and its adjoint, <i>Journal of Hydrometeorology</i> , 2(3), 274- 296.	2001
Reichle, R., D. Entekhabi, and D. McLaughlin, 2001: Downscaling of radiobrightness measurements for soil moisture estimation: A four-dimensional variational data assimilation approach, <i>Water Resources Research</i> , 37(9), 2353- 2364.	2001
Boni, G., D. Entekhabi, and F. Castelli, 2001: Land data assimilation with satellite measurements for the estimation of surface energy balance components and surface control on evaporation, <i>Water Resources Research</i> , 37(6), 1713-1722.	2001
Cohen, J., K. Saito, and D. Entekhabi, 2001: The role of the Siberian High in Northern Hemisphere climate variability, <i>Geophysical Research Letters</i> , 28(2), 299-302.	2001
Cohen, J. and D. Entekhabi, 2001: The influence of snow cover on Northern Hemisphere climate variability, <i>Atmosphere-Ocean</i> , 39(1), 35- 53. 13	2001
Socolofsky, S., E. Adams, and D. Entekhabi, 2001: Disaggregation of daily rainfall for continuous watershed modeling, <i>Journal of Hydrologic Engineering</i> , 6(4), 300-309.	2001
Boni, G., F. Castelli, and D. Entekhabi, 2001: Sampling strategies and assimilation of ground temperature for the estimation of surface energy balance components, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 39(1), 165-172.	2001
Margulis, S. and D. Entekhabi, 2001: Feedback between land surface energy balance and atmospheric boundary layer diagnosed through a model and its adjoint, <i>Journal of Hydrometeorology</i> , 2(6), 599-620.	2001
Saito, K., J. Cohen, and D. Entekhabi, 2001: Evolution of atmospheric response to early-season Eurasian snow cover anomalies, <i>Monthly Weather Review</i> , 129(11), 2746-2760.	2001
Margulis, S. A. and D. Entekhabi, 2001: Temporal disaggregation of satellitederived monthly precipitation estimates and the resulting propagation of error in partitioning of water at the land surface, <i>Hydrology and Earth System Sciences</i> , 5(1), 27-38.	2001
Reichle, R., D. B. McLaughlin, and D. Entekhabi, 2002: Hydrologic data assimilation with the ensemble Kalman Filter, <i>Monthly Weather Review</i> , 130 (1), 103-114, 2002.	2002
Gong, G., D. Entekhabi, and J. Cohen, 2002: Modeled northern hemisphere winter climate response to realistic Siberian snow anomalies, <i>Journal of Climate</i> , 16(23), 3917-3932.	2002
Caparrini, F., F. Castelli, and D. Entekhabi, 2002: Remote sensing of land surface evaporation, <i>EOS</i> , 83(27), 290-291.	2002
Gong, G. D. Entekhabi, and J. Cohen, 2002: A large-ensemble model study of the wintertime AO/NAO and the role of surface perturbations, <i>Journal of Climate</i> , 15(23), 3488-3499.	2002
Margulis, S. A., D. B. McLaughlin, D. Entekhabi, and S. Dunne, 2002: Land data assimilation and estimation of soil moisture using measurements from the Southern Great Plains 1997 field experiment, <i>Water Resources Research</i> , 38(12), 1299.	2002
Grassotti, C., R. N. Hoffman, E. R. Vivoni, and D. Entekhabi, 2003, Multiple time scale intercomparison of two radar products and rain gauge observations over the Arkansas-Red River Basin, <i>Weather and Forecasting</i> , 18(6), 1207-1229.	2003
Gong, G., D. Entekhabi, and J. Cohen, 2003: Relative impacts of Siberian and North American snow anomalies on the Winter Northern Hemisphere mode, <i>Geophysical Research Letters</i> , 30(16).	2003
Margulis, S. and D. Entekhabi, 2003: Variational assimilation of surface temperature and micrometeorology into a model of the atmospheric boundary layer and land surface, <i>Monthly Weather Review</i> , 131(7), 1272-1288.	2003
Caparrini, F., F. Castelli, and D. Entekhabi, 2003: Mapping of land-atmosphere heat fluxes and surface parameters with remote sensing data, <i>Boundary-Layer Meteorology</i> , 17(3), 605-633.	2003
Caparrini, F., F. Castelli, and D. Entekhabi, 2004: Estimation of surface moisture control and turbulent transfer by assimilating sequences of radiometric surface temperature measurements, <i>Journal of Hydrometeorology</i> , 5(1), 145-159.	2004
Caparrini, F., F. Castelli, and D. Entekhabi, 2004: Variational Estimation of soil and vegetation turbulent transfer and heat flux parameters from sequences of multi-sensor imagery, <i>Water Resources Research</i> , 40(12), DOI.10.1029/2004WR003358.	2004
Ivanov, V., E. Vivoni, R. Bras, and D. Entekhabi, 2004: Catchment hydrologic response with a fully-distributed triangulated irregular network model, <i>Water Resources Research</i> , 40, W11102, doi: 10.1029/2004WR003218.	2004
Ivanov, V., E. Vivoni, R. Bras, and D. Entekhabi, 2004: Preserving highresolution surface and rainfall data in operational-scale basin hydrology: A fullydistributed physically-based approach, <i>Journal of Hydrology</i> , 298(1-4), 80-111.	2004
Vivoni, E., V. Ivanov, R. Bras and D. Entekhabi, 2004. Generation of triangulated irregular networks based on hydrological similarity. <i>Journal of Hydrologic Engineering</i> , 9(4): 288-302.	2004
Rudari, R., D. Entekhabi, and G. Roth, 2004: Terrain and multiple-scale interactions as factors in generating extreme precipitation events, <i>Journal of Hydrometeorology</i> , 5: 390-404.	2004
Kanamaru, H., G. Salvucci, and D. Entekhabi, 2004: Central U.S. atmospheric water and energy budgets adjusted for diurnal sampling biases using top-ofatmosphere aadiation, <i>Journal of Climate</i> , 17, 2454-2465.	2004
Gong, G., D. Entekhabi and J. Cohen, 2004. Orographic constraints on a modeled Siberian snow — Arctic Oscillation teleconnection pathway, <i>Journal of Climate</i> , 17, 1176-1189.	2004
Entekhabi, D., Njoku, E., Houser, P., Spencer, M., Doiron, T., Smith, J., Girard, R., Belair, S., Crow, W., Jackson, T., Kerr, Y., Kimball, J., Koster, R., McDonald, K., O'Neill, P., Pultz, T., Running, S., Shi, J.C., Wood, E. and van Zyl, J., 2004, The Hydrosphere State (HYDROS) mission concept: An Earth system pathfinder for global mapping of soil moisture and land freeze/thaw. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 42(10), 2184-2195.	2004
Margulis, S. and D. Entekhabi, 2004: Boundary layer entrainment estimation through assimilation of radiosonde and micrometeorology data, <i>Boundary-Layer Meteorology</i> , 110, 405-433.	2004
Gong, G., D. Entekhabi, J. Cohen, and D. Robinson, 2004: Sensitivity of atmospheric response to modeled snow anomaly characteristics, <i>Journal of Geophysical Research</i> , 109(D06107).	2004

G. Gong, D. Entekhabi, J. Cohen, D. Robinson "Sensitivity of atmospheric response to modeled snow anomaly characteristics: ATMOSPHERIC RESPONSE TO SNOW" <i>Journal of Geophysical Research: Atmospheres</i> [2169897X] 109.D6 (2004): n/a-n/a. Print. 10.1029/2003...	March 2004
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Committee Service

Service Level	Committee Type	Committee Service Description	Start Date	End Date
School, Institute-Wide Level	Standing Admin of Institute	Lincoln Laboratory-Campus Interaction Committee (Regular)	7/1/2012	8/31/2015
School, Institute-Wide Level	Standing Admin of Institute	Lincoln Laboratory-Campus Interaction Committee (Regular)	7/1/2009	6/30/2012
School, Institute-Wide Level	Standing Faculty Committee	Faculty-Administration, Committee On (Regular)	6/15/2001	6/14/2004
Department, Lab or Center Level	Ad Hoc/Other Committee	Faculty Mentoring Committee (Other)	1/1/2011	12/31/2017
Department, Lab or Center Level	Graduate Admissions Committee	Parsons Laboratory, Admissions Officer	9/1/1999	9/1/2000
Department, Lab or Center Level	Graduate Admissions Committee	CEE Graduate Admissions Committee (Other)	9/1/1993	12/31/2017
Department, Lab or Center Level	Graduate Admissions Committee	CEE Graduate Admissions Committee (Regular Member)	1/1/2010	12/31/2019
Department, Lab or Center Level	Ad Hoc/Other Committee	Department Council (Other)	9/1/2006	7/1/2013
Department, Lab or Center Level	Ad Hoc/Other Committee	Parsons Laboratory (Other)	9/1/2006	7/1/2013
Department, Lab or Center Level	Ad Hoc/Other Committee	Department Council (Other)	9/1/2002	9/1/2003
Department, Lab or Center Level	Ad Hoc/Other Committee	Alumni Day 2000 Committee (Other)	9/1/1999	3/1/2000
Department, Lab or Center Level	Ad Hoc/Other Committee	Department Council (Other)	1/1/2000	1/1/2001
Department, Lab or Center Level	Ad Hoc/Other Committee	Strategic Plan Working Group (Other)	9/1/1999	9/1/2000
Department, Lab or Center Level	Ad Hoc/Other Committee	Environmental Research Council (Other)	1/8/2008	1/1/2015
Department, Lab or Center Level	Faculty Search Committee	Faculty Search Committee, Member	9/1/2014	12/31/2017
Department, Lab or Center Level	Faculty Search Committee	Faculty Search Committee Member	9/1/2013	5/1/2014
Department, Lab or Center Level	Faculty Search Committee	Faculty Search Committee, Member	9/1/2008	5/1/2009
Department, Lab or Center Level	Faculty Search Committee	Faculty Search Committee, Member	9/1/2004	5/1/2005
Department, Lab or Center Level	Faculty Search Committee	Faculty Search Committee, Chair	9/1/2003	9/1/2004
Department, Lab or Center Level	Faculty Search Committee	Faculty Search Committee, Head	5/1/2001	6/1/2002
Department, Lab or Center Level	Faculty Search Committee	Two Faculty Search Committees, Member	9/1/1993	5/1/1994
Department, Lab or Center Level	Faculty Search Committee	CEE Faculty Search Committee (Regular Member)	9/1/2014	9/1/2016
Department, Lab or Center Level	Graduate Program Committee	Graduate Education and Admissions Committee, Member	9/1/1999	9/1/2000
Department, Lab or Center Level	Graduate Program Committee (Ph.D. Only)	Qualifying Examinations, Coordinator	9/1/2003	9/1/2005

Department, Lab or Center Level	Promotion and Tenure Committee	Mentoring Committee	1/1/2011	12/31/2019
Department, Lab or Center Level	Undergraduate Program Committee	Undergraduate Program Committee, Member	9/1/2013	9/1/2014

Other MIT Service

Service Level	Other MIT Service Description	Start Date	End Date
School, Institute-Wide Level	Earth System Initiative, Director	7/1/2008	-
Department, Lab or Center Level	Independent Living Group Freshman Advisor	9/1/1992	8/1/1993
Department, Lab or Center Level	Department Student Organization (CEESA), Advisor	9/1/2006	9/1/2007
Department, Lab or Center Level	Upperclassmen Advisor	9/1/1991	-
Department, Lab or Center Level	Graduate Advisor	9/1/1991	-
Department, Lab or Center Level	Leaders for Manufacturing Program, Thesis Advisor	9/1/1996	6/1/1997
Department, Lab or Center Level	Parsons Laboratory - Graduate Admissions (Regular Member)	9/1/1993	9/1/1994
Department, Lab or Center Level	Parsons Laboratory - Graduate Admissions (Regular Member)	9/1/1995	9/1/1996