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RESEARCH INTERESTS	Urban Climate, Boundary-Layer Meteorology, Environmental Fluid Mechanics, Turbulence, Climate Modeling	
ACADEMIC BACKGROUND	Ph.D., Civil and Environmental Engineering, Princeton University	2013.11
	B.E., Hydraulic Engineering, Tsinghua University	2009.6
EMPLOYMENT HISTORY	Urban-H Associate Director Initiative on Cities, Boston University	2024.7 - Present
	Associate Chair Department of Earth and Environment, Boston University	2024.7 - Present
	Associate Professor Department of Mechanical Engineering, Boston University	2023.10 - Present
	Associate Professor Department of Earth and Environment, Boston University	2022.6 - Present
	Assistant Professor Department of Earth and Environment, Boston University	2016.1 - 2022.5
	Postdoctoral Research Associate Program of Atmospheric and Oceanic Sciences, Princeton University	2013.12 - 2015.12
	Visiting Scholar Institute of Meteorology and Climatology, Leibniz Universität Hannover	2023.3 - 2023.8
VISITING APPOINTMENT	Visiting Scholar Institute of Meteorology and Climatology, Leibniz Universität Hannover	2020.3 - 2020.8
	Visiting Scholar Program of Atmospheric and Oceanic Sciences, Princeton University	2019.6 - 2019.8
RECOGNITIONS	<ul style="list-style-type: none">• <i>Most cited paper in the Journal of Applied Meteorology and Climatology since 1990</i>• <i>Global Environmental Change Early Career Award.</i>, American Geophysical Union, 2023• <i>Timothy Oke Award for Original Research in the Field of Urban Climatology</i>, International Association for Urban Climate, 2022• <i>Humboldt Fellowship for Experienced Researchers</i>, Alexander von Humboldt Foundation, 2020• <i>Junior Faculty Fellow of the Hariri Institute for Computing</i>, Boston University, 2016• <i>Outstanding Self-financed Students Abroad</i>, China Scholarship Council, 2014	

- *Outstanding Student Paper Award*, American Geophysical Union, 2012
- *Princeton Energy and Climate Scholars*, Princeton University, 2012
- *Wu Prize for engineering graduate students who have performed at the highest level as scholars and researchers*, Princeton University, 2012
- *Science, Technology, Environmental Policy Fellowship*, Princeton University, 2011

PUBLICATIONS

- [1] M. Talebpour, E. Bou-Zeid, C. Welty, D. Li, and B. Zaitchik. Sensitivity of Fine-Resolution Urban Heat Island Simulations to Soil Moisture Parameterization. *International Journal of Climatology* 45.1 (2025), e8664.
- [2] Z. Gao, H. Liu, D. Li, B. Yang, V. Walden, L. Li, and I. Bogoev. Uncertainties in temperature statistics and fluxes determined by sonic anemometer due to wind-induced vibrations of mounting arms. *Atmospheric Measurement Techniques Discussions* 2024 (2024), pp. 1–25.
- [3] D. Li, T. Sun, J. Yang, N. Zhang, P. Vahmani, and A. Jones. Structural uncertainty in the sensitivity of urban temperatures to anthropogenic heat flux. *Journal of Advances in Modeling Earth Systems* 16.10 (2024), e2024MS004431.
- [4] D. Li, L. Wang, W. Liao, T. Sun, G. Katul, E. Bou-Zeid, and B. Maronga. Persistent urban heat. *Science Advances* 10.15 (2024), eadj7398.
- [5] J. Liu, Y. Xing, D. Li, L. Yang, and G. Ni. Statistical and modeling analyses of urban impacts on winter precipitation. *Urban Climate* 56 (2024), p. 102038.
- [6] X. Shao, N. Zhang, D. Li, and J. Sun. On the size of dominant momentum transporting eddies in stable atmospheric boundary layers. *Geophysical Research Letters* 51.23 (2024), e2024GL111459.
- [7] E. O. Akinlabi, M. Giometto, and D. Li. Budgets of Second-Order Turbulence Moments over a Real Urban Canopy. *Boundary-Layer Meteorology* (2023), pp. 1–37.
- [8] Z. Ayazpour, S. Tao, D. Li, A. J. Scarino, R. E. Kuehn, and K. Sun. Estimates of the spatially complete, observational-data-driven planetary boundary layer height over the contiguous United States. *Atmospheric Measurement Techniques* 16.2 (2023), pp. 563–580.
- [9] O. Elguernaoui, J. Reuder, D. Li, B. Maronga, M. B. Paskyabi, T. Wolf, and I. Esau. The Departure from Mixed-Layer Similarity During the Afternoon Decay of Turbulence in the Free-Convective Boundary Layer: Results from Large-Eddy Simulations. *Boundary-Layer Meteorology* (2023), pp. 1–26.
- [10] Y. Qin, W. Liao, and D. Li. Attributing the Urban–Rural Contrast of Heat Stress Simulated by a Global Model. *Journal of Climate* 36.6 (2023), pp. 1805–1822.
- [11] H. L. Schlaerth, S. J. Silva, Y. Li, and D. Li. Albedo as a competing warming effect of urban greening. *Journal of Geophysical Research: Atmospheres* 128.24 (2023), e2023JD038764.
- [12] X. Shao, N. Zhang, D. Li, and J. Sun. A Non-Dimensional Index for Characterizing the Transition of Turbulence Regimes in Stable Atmospheric Boundary Layers. *Geophysical Research Letters* 50.18 (2023), e2023GL105304.

- [13] B. Wang, J. A. Geddes, T. J. Adams, E. S. Lind, B. C. McDonald, J. He, C. Harkins, D. Li, and G. G. Pfister. Implications of Sea Breezes on Air Quality Monitoring in a Coastal Urban Environment: Evidence from High Resolution Modeling of NO₂ and O₃. *Journal of Geophysical Research: Atmospheres* (2023), e2022JD037860.
- [14] L. Wang, T. Sun, W. Zhou, M. Liu, and D. Li. Deciphering the sensitivity of urban canopy air temperature to anthropogenic heat flux with a forcing-feedback framework. *Environmental research letters* (2023).
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- [16] E. Akinlabi, B. Maronga, M. G. Giometto, and D. Li. Dispersive Fluxes Within and Over a Real Urban Canopy: A Large-Eddy Simulation Study. *Boundary-Layer Meteorology* 185.1 (2022), pp. 93–128.
- [17] W. Chen, Y. Zhou, Y. Xie, G. Chen, K. J. Ding, and D. Li. Estimating spatial and temporal patterns of urban building anthropogenic heat using a bottom-up city building heat emission model. *Resources, Conservation and Recycling* 177 (2022), p. 105996.
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- [112] Z. Zhao, Z. Gao, D. Li, X. Bi, C. Liu, and F. Liao. Scalar flux–gradient relationships under unstable conditions over water in coastal regions. *Boundary-Layer Meteorology* 148.3 (2013), pp. 495–516.
- [113] D. Li, E. Bou-Zeid, and H. A. De Bruin. Monin–Obukhov similarity functions for the structure parameters of temperature and humidity. *Boundary-Layer Meteorology* 145.1 (2012), pp. 45–67.
- [114] D. Li, G. G. Katul, and E. Bou-Zeid. Mean velocity and temperature profiles in a sheared diabatic turbulent boundary layer. *Physics of Fluids* 24.10 (2012), p. 105105.
- [115] D. Li and E. Bou-Zeid. Coherent structures and the dissimilarity of turbulent transport of momentum and scalars in the unstable atmospheric surface layer. *Boundary-Layer Meteorology* 140.2 (2011), pp. 243–262.

CONFERENCE PRESENTATIONS

1. D. Li, T. Sun, J. Yang, N. Zhang, P. Vahmani, A. Jones, 2024, Structural uncertainty in the sensitivity of urban canopy air temperature to anthropogenic heat flux (poster), American Geophysical Union Fall Meeting, Washington D.C.
2. D. Li, Y. Qin, 2024, Does LES help reduce nighttime temperature biases in weather simulations over mountainous terrain? (poster), American Geophysical Union Fall Meeting, Washington D.C.
3. D. Li, E. Akinlabi, 2024, Characterizing Urban Flow Disturbances for Safe Operations of Urban Air Mobility (oral), PALM modeling conference, Offenbach, Germany
4. D. Li, W. Liao, L. Wang, 2024, Contribution of changes in temperature mean, variability and persistence to heat wave occurrence in urban environments (oral), Asia Oceania Geosciences Society, Pyeongchang, South Korea

5. D. Li, W. Liao, L. Wang, 2024, Contribution of changes in temperature mean, variability and persistence to heat wave occurrence in urban environments (oral), American Meteorological Society Annual Meeting, Baltimore, MD
6. D. Li, L. Wang, W. Liao, T. Sun, G. Katul, E. Bou-Zeid, B. Maronga, 2023, Persistent urban heat (invited), American Geophysical Union Fall Meeting, San Francisco, CA
7. D. Li, L. Wang, 2023, Deciphering the sensitivity of urban canopy air temperature to anthropogenic heat flux with a forcing-feedback framework (oral), International Conference on Urban Climate, Sydney, Australia
8. D. Li, L. Wang, W. Liao, T. Sun, G. Katul, E. Bou-Zeid, B. Maronga, 2023, Persistent urban heat (oral), International Conference on Urban Climate, Sydney, Australia
9. D. Li, L. Wang, T. Sun, 2023, Persistent urban heat (oral), European Geophysical Union General Assembly, Vienna, Austria
10. D. Li, L. Wang, 2023, Strong influence of convective heat transfer efficiency on the simulated cooling benefits of white roofs and green roof irrigation (oral), 24th Symposium on Boundary Layers and Turbulence, Denver, CO
11. D. Li, The impact of turbulent eddy size and turbulent Prandtl number on the momentum stability correction function in unstable atmospheric surface layers (poster), 24th Symposium on Boundary Layers and Turbulence, Denver, CO
12. D. Li, Y. Qin, H. Liu, 2022, On the logarithmic behavior of streamwise velocity variance in the neutral atmospheric surface layer (oral), 100 years of turbulence: Innsbruck 1922 – 2022, Innsbruck, Austria
13. D. Li, Y. Zhang, 2022, Dynamics of the planetary boundary layer height and lifting condensation level from aircraft observations (poster), 3rd Pan-GASS Meeting, Understanding and Modeling Atmospheric Processes, Monterey, CA
14. D. Li, K. Sun, Y. Zhang, S. Tao, 2021, From Satellite Measurements of Trace Gases to Surface Applications: The Bridging Role of the Planetary Boundary Layer (oral), American Meteorological Society Annual Meeting, online
15. D. Li, L. Wang, 2020, Land use and land cover change impact on surface temperature: the scale issue (oral), European Geosciences Union General Assembly, online
16. D. Li, 2020, Land Use and Land Cover Change-Induced Surface Temperature Anomalies: The Scale Issue (poster), American Meteorological Society Annual Meeting, Boston, MA
17. D. Li, W. L. Liao, 2019, The urban-rural contrast of heat stress in a global earth system model (oral), American Geophysical Union Fall Meeting, San Francisco
18. D. Li, P. Wang, W. L. Liao, 2019, Contrasting evaporative responses of ecosystems to heat waves traced to the roles of vapor pressure deficit and canopy resistance (oral), American Meteorological Society Annual Meeting, Phoenix, AZ.
19. D. Li, W. L. Liao, 2018, Interpreting urban heat islands as perturbations on surface energy and water balances (oral), American Geophysical Union Fall Meeting, Washington D.C.
20. D. Li, L. Wang, 2018, Scale issue in the attribution of land use and land cover change-induced surface temperature anomalies (poster), American Geophysical Union Fall Meeting, Washington D.C.

21. D. Li, G. Katul, H. Liu, 2018, Intrinsic Constraints on Asymmetric Turbulent Transport of Scalars Within the Constant Flux Layer of the Lower Atmosphere (poster), American Geophysical Union Fall Meeting, Washington D.C.
22. D. Li, Y. J. Zhang, Z. K. Lin, L. Wang, J. Santanello, 2018, Characterizing diurnal variations of the PBL with Aircraft Meteorological Data Reports (oral), NASA Sounder Science Team Meeting, Washington D.C.
23. D. Li, W. L. Liao, 2018, Urban heat islands: roughness or imperviousness? (oral), 10th International Conference on Urban Climate/14th Symposium on the Urban Environment, New York, NY
24. D. Li, Y. J. Zhang, Z. K. Lin, L. Wang, 2018, Characterizing urban boundary layer structures under heat waves (oral), 10th International Conference on Urban Climate/14th Symposium on the Urban Environment, New York, NY
25. D. Li, Y. J. Zhang, Z. K. Lin, L. Wang, 2018, Developing a Data Record of PBL Temperature Profiles for Diurnal Land-Atmosphere Coupling Investigations (oral), American Meteorological Society's 23rd Symposium on Boundary Layers and Turbulence, Oklahoma City, OK
26. D. Li, L. Wang, 2018, Attribution of heat wave-induced urban boundary layer warming (oral), 8th GEWEX Science Conference, Canmore, Canada
27. D. Li, A. Rigden., G. Salvucci, H. Liu, 2017, Reconciling the Reynolds number dependence of scalar roughness length and laminar resistance (oral), American Geophysical Union Fall Meeting, New Orleans, LA.
28. D. Li, G. Katul, 2016, Connecting macroscopic flow properties with turbulent energy spectra in stratified atmospheric surface layers (invited), American Geophysical Union Fall Meeting, San Francisco, CA.
29. D. Li, Yaofeng, G., 2016, A large-scale sensitivity study of urban heat islands using GFDL's earth system model (oral), American Geophysical Union Fall Meeting, San Francisco, CA.
30. D. Li, A. Rigden, 2016, Overestimated surface roughness impact on land use/land cover change induced temperature anomaly (oral), American Geophysical Union Fall Meeting, San Francisco, CA.
31. D. Li, T. Sun, L. Wang, and Z. Gao, 2016, Contrasting responses of urban and rural surface energy budgets to heat waves (oral), the 22nd Symposium on Boundary Layers and Turbulence, Salt Lake City, Utah.
32. D. Li, E. Shevliakova, S. Malyshev, L. Harris, and S.J. Lin, 2015, Impacts and feedbacks of urbanization on regional hydroclimate: a case study with a high-resolution GFDL AGCM (oral), American Geophysical Union Fall Meeting, San Francisco, CA.
33. D. Li, G. Katul, and P. Gentile, 2015, On the k^{-1} scaling of air temperature spectra in atmospheric surface layer flows (poster), American Geophysical Union Fall Meeting, San Francisco, CA.
34. D. Li, E. Shevliakova, S. Malyshev, and S.J. Lin, 2015, Towards understanding the hydro-climatic implications of urbanization in the GFDL global climate and earth system modeling framework (oral), 9th International Conference on Urban Climate, Toulouse, France.
35. D. Li, E. Shevliakova, S. Malyshev, and S.J. Lin, 2014, Towards understanding implications of urbanization for regional and global climate in the GFDL Earth System Modeling framework (oral), American Geophysical Union Fall Meeting, San Francisco, CA.

36. D. Li, G. Katul, and E. Bou-Zeid, 2014, The evolution of turbulent energy spectra, heat and momentum flux co-spectra in the stable atmospheric surface layer (oral), American Geophysical Union Fall Meeting, San Francisco, CA.
37. D. Li, E. Shevliakova, S. Malyshev, and S.J. Lin, 2014, Urbanizing GFDL's global climate models (oral), European Geosciences Union General Assembly, Vienna, Austria
38. D. Li, and E. Bou-Zeid, 2014, Heat Waves in Urban Areas: the Hot is Getting Hotter (oral), 2014 American Meteorological Society Annual Meeting, Atlanta, GA
39. D. Li, E. Bou-Zeid, M. Barlage, F. Chen, and J. A. Smith, 2013, Development and evaluation of a mosaic approach in the WRF-Noah framework (oral), the 14th WRF Users' Workshop, Boulder, CO
40. D. Li, E. Bou-Zeid, M.L. Baeck, S. Jessup and J.A. Smith, 2012, Hydrometeorological and Microclimatic Impacts of Urbanization (poster), American Geophysical Union Fall Meeting, San Francisco, CA.
41. D. Li, and E. Bou-Zeid, 2012, Urban Heat Island: Modeling, Sensing and Mitigation Strategies (oral), the 20th Symposium on Boundary Layers and Turbulence, Boston, MA.
42. D. Li, G. Katul, and E. Bou-Zeid, 2012, On the Dissimilarity of Turbulent Transport of Momentum and Scalars (poster), the Brutsaert – Parlange Hydrologic Meeting. Ithaca, NY.
43. D. Li, and E. Bou-Zeid, 2011, The Role of Stability in Modulating the Structure and Transport Efficiency of Turbulence in the Atmospheric Surface Layer (oral), the 64th Annual Meeting of the APS Division of Fluid Dynamics. Baltimore, MD.
44. D. Li, and E. Bou-Zeid, 2011, On the Dissimilarity of Turbulent Transport of Momentum and Scalars (poster), Conference on Coherent Flow Structures in Geophysical Flows at Earth's Surface, Vancouver, BC, Canada
45. D. Li, and E. Bou-Zeid, 2010, Coherent Structures and the Dissimilarity of Turbulent Transport of Momentum and Scalars (oral), American Geophysical Union Fall Meeting, San Francisco, CA.

INVITED TALKS

1. D. Li, 2024, What Global Urban Climate Modeling Teaches Us, Center for Computational Sciences, University of Tsukuba, Japan
2. D. Li, 2024, Urban heat mitigation: Bridging thermodynamics with aerodynamics, Department of Hydraulic Engineering, Wuhan University, China
3. D. Li, 2024, Land-atmosphere feedbacks and implications for urban heat and its mitigation, Department of Civil and Environmental Engineering, Yonsei University, Seoul, South Korea
4. D. Li, 2024, Assessing Urban Heat Mitigation Strategies with Hyper-resolution Climate Models, Bloomberg Center for Cities, Harvard University
5. D. Li, 2023, The O'KEYPS equation and 60 years beyond, Department of Ocean Science and Engineering, Southern University of Science and Technology, Shenzhen, China
6. D. Li, 2023, Persistent urban heat, School of Atmospheric Sciences, Sun Yat-sen University, Zhuhai, China
7. D. Li, 2023, The O'KEYPS equation and 60 years beyond, School of Atmospheric Sciences, Sun Yat-sen University, Zhuhai, China

8. D. Li, 2023, Urban heat mitigation: bridging thermodynamics with aerodynamics, Department of Mechanical Engineering, University of Hong Kong, Hong Kong
9. D. Li, 2023, Land-atmosphere feedbacks and implications for urban heat and its mitigation, Earth and Environmental Sciences Programme, Chinese University of Hong Kong, Hong Kong
10. D. Li, 2023, Land-atmosphere feedbacks and implications for urban heat and its mitigation, Department of Civil and Environmental Engineering, Hong Kong University of Science and Technology, Hong Kong
11. D. Li, 2023, Land-atmosphere feedbacks and implications for urban heat and its mitigation, NCAR-Advanced Study Program Summer School, Boulder, CO
12. D. Li, 2023, The O'KEYPS equation and 60 years beyond, New Horizons in Environmental Mechanics: A Festschrift in honor of John Finnigan, Boulder, CO
13. D. Li, 2023, Land-atmosphere feedbacks and implications for urban heat and its mitigation, Department of Civil, Environmental and Mechanical Engineering, University of Trento, Trento, Italy
14. D. Li, 2023, Land-atmosphere feedbacks and implications for urban heat and its mitigation, Delft University of Technology, Delft, The Netherlands
15. D. Li, 2023, Land-atmosphere feedbacks and implications for urban heat and its mitigation, Meteorology and Air Quality Group, Wageningen University, Wageningen, The Netherlands
16. D. Li, 2023, Turbulent transport of momentum and heat in the atmospheric surface layer: new perspectives on an old subject, Department of Atmospheric and Cryospheric Sciences, Institut für Meteorologie, Freie Universität Berlin, Berlin, Germany
17. D. Li, 2023, Turbulent transport of momentum and heat in the atmospheric surface layer: new perspectives on an old subject, Department of Atmospheric and Cryospheric Sciences, University of Innsbruck, Innsbruck, Austria
18. D. Li, 2023, Land-atmosphere interaction: surface energy balance, surface-layer turbulence, and surface heterogeneity, Geophysical Institute, University of Bergen, Bergen, Norway
19. D. Li, 2023, Turbulent transport of momentum and heat in the atmospheric surface layer: new perspectives on an old subject, Department of Geosciences, University of Oslo, Oslo, Norway
20. D. Li, 2023, Persistent urban heat, Institute of Meteorology and Climatology, Leibniz University Hannover, Germany
21. D. Li, 2023, Urban heat mitigation: bridging thermodynamics with aerodynamics, Department of Civil and Environmental Engineering, Princeton University, Princeton, NJ
22. D. Li, 2023, Urban heat mitigation: bridging thermodynamics with aerodynamics, Department of Civil Engineering and Engineering Mechanics, Columbia University, New York, NY
23. D. Li, 2023, Urban heat mitigation: bridging thermodynamics with aerodynamics, Department of Civil and Environmental Engineering, Cornell University, Ithaca, NY

24. D. Li, 2023, Urban heat mitigation: bridging thermodynamics with aerodynamics, Center for Environmental and Applied Fluid Mechanics, Johns Hopkins University, Baltimore, MD
25. D. Li, 2022, Urban heat mitigation: bridging thermodynamics with aerodynamics, Institute of Meteorology and Climatology, Leibniz University Hannover, Germany (online)
26. D. Li, 2022, Urban heat mitigation: bridging thermodynamics with aerodynamics, Nanjing University of Information Science and Technology, China (online)
27. D. Li, 2022, Urban heat mitigation: is it a simple surface energy balance problem? Environmental Science Graduate Program Annual Symposium, Iowa State University, Ames, IA
28. D. Li, 2022, Urban heat mitigation: bridging thermodynamics with aerodynamics, Department of Civil and Environmental Engineering, Colorado State University, Fort Collins, CO
29. D. Li, 2022, Urban heat mitigation: is it a simple surface energy balance problem? Department of Civil and Environmental Engineering, MIT, Boston, MA
30. D. Li, 2021, Some thoughts on the attribution of urban heat island intensity, China Meteorological Research Institute, Beijing, China (online)
31. D. Li, 2021, Biophysical impacts of land-use/land-cover changes: a simple surface energy balance model and the roles of convective heat transfer and boundary layer feedback, Program in Atmospheres, Oceans and Climate, MIT, Boston, MA
32. D. Li, 2020, Perturbing the land-ABL system, Karlsruhe Institute of Technology, Karlsruhe, Germany
33. D. Li, 2020, Perturbing the land-ABL system, Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany
34. D. Li, 2019, Extreme heat in cities: synergies between urban heat islands and heat waves, NOAA Earth System Sciences and Modeling Community Workshop on Extreme Heat, Washington D.C.
35. D. Li, 2019, Urban Heat Islands: new perspectives on an old topic, Department of Civil and Environmental Engineering, Princeton University, Princeton, NJ
36. D. Li, 2019, Urban Heat Islands: new perspectives on an old topic, Department of Civil and Environmental Engineering, University of Connecticut, Storrs, CT
37. D. Li, 2019, Urban Heat Islands: new perspectives on an old topic, Department of Civil, Structural, and Environmental Engineering, University of Buffalo, Buffalo, NY
38. D. Li, 2019, From Global Climate Change to Local Policy Decisions, Boston University Academy, Boston, MA
39. D. Li, 2018, Urban Climate Modeling: From Simulation to Understanding, School of Hydrology and Water Resources, Nanjing University of Information Science and Technology, Nanjing, China
40. D. Li, 2018, Urban Climate Modeling: From Simulation to Understanding, Department of Atmospheric Sciences, Nanjing University, Nanjing, China

41. D. Li, 2018, Urban Climate Modeling: From Simulation to Understanding, Pacific Northwest National Laboratory, Richland, WA
42. D. Li, 2018, Urban Heat Islands, Global Synthesis on Budyko's Framework - Powell Center Meeting, Fort Collins, CO
43. D. Li, 2017, Turbulent transport of momentum and heat in the atmospheric boundary layer: new perspectives on an old subject, Department of Civil and Environmental Engineering, Washington State University, Pullman, WA.
44. D. Li, 2017, The Fluid Mechanics of Surface-Atmosphere Interaction, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China.
45. D. Li, 2017, The Fluid Mechanics of Surface-Atmosphere Interaction, International Pacific Research Center, University of Hawaii at Manoa, Honolulu, HI.
46. D. Li, 2016, From Global Climate Change to Local Policy Decisions, Environmental Volunteering Outreach Group -Branch Out, Boston University, Boston, MA.
47. D. Li, 2016, From Global Climate Change to Local Policy Decisions, Hariri Institute for Computing and Computational Science and Engineering, Boston University, Boston, MA.
48. D. Li, 2016, Hydrology meets turbulence over lakes, Department of Hydraulic Engineering, Tsinghua University, Beijing, China.
49. D. Li, 2016, Hydrology meets turbulence over lakes, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China.
50. D. Li, 2016, Hydrology meets turbulence over lakes, College of Global Change and Earth System Science, Beijing Normal University, Beijing, China.
51. D. Li, 2016, Turbulence in land-atmosphere coupling, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China.
52. D. Li, 2015, Contrasting responses of urban and rural surface energy budgets to heat waves, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China.
53. D. Li, 2015, Monin-Obukhov Similarity Theory: A new perspective on an old topic, Center for Earth System Science, Tsinghua University, Beijing, China
54. D. Li, 2015, Monin-Obukhov Similarity Theory: A new perspective on an old topic, Department of Atmospheric Sciences, Peking University, Beijing, China
55. D. Li, 2015, Monin-Obukhov Similarity Theory: A new perspective on an old topic, Department of Atmospheric Sciences, University of Miami, Miami, FL
56. D. Li, 2015, Monin-Obukhov Similarity Theory: A new perspective on an old topic, Department of Atmospheric and Oceanic Sciences, University of California at Los Angeles, Los Angeles, CA
57. D. Li, 2015, Monin-Obukhov Similarity Theory: A new perspective on an old topic, Department of Earth and Planetary Sciences, University of California at Santa Cruz, Santa Cruz, CA
58. D. Li, 2015, Towards urban sustainability under a changing climate, Department of Earth and Planetary Sciences, University of California at Santa Cruz, Santa Cruz, CA
59. D. Li, 2015, Towards urban sustainability under a changing climate, Department of Earth and Environment, Boston University, Boston, MA

60. D. Li, 2014, Towards urban sustainability under a changing climate, Earth System Science Programme, Chinese University of Hong Kong, Hong Kong, China
61. D. Li, T. Sun, and E. Bou-Zeid, 2014, Heat Waves in Urban Environments, Urban Environmental Pollution 2014 conference, Toronto, Canada
62. D. Li, 2014, Climate extremes in the built environment: how to achieve urban sustainability under a changing climate, School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY
63. D. Li, 2014, Climate extremes in the built environment: how to achieve urban sustainability under a changing climate, Department of Earth and Environmental Engineering, Columbia University, New York, NY
64. D. Li, 2014, Climate extremes in the built environment: how to achieve urban sustainability under a changing climate, Department of Atmospheric Sciences, UIUC, Champaign, IL
65. D. Li, 2014, Climate extremes in the built environment: how to achieve urban sustainability under a changing climate, Department of Civil and Environmental Engineering, Duke University, Durham, NC
66. D. Li, 2014, Climate extremes in the built environment: how to achieve urban sustainability under a changing climate, Department of Civil and Environmental Engineering, MIT, Boston, MA
67. D. Li, 2013, Urban sustainability under a changing climate, Geophysical Fluid Dynamics Laboratory, Princeton, NJ
68. D. Li, 2013, How to include the heterogeneity effect in modeling urban surface?, Shanghai Typhoon Institute, China Meteorological Administration, Shanghai, China
69. D. Li, 2013, How to include the heterogeneity effect in modeling urban surface?, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China.
70. D. Li, 2013, Surface-atmosphere interaction: the impact of buoyancy, Department of Hydraulic Engineering, Tsinghua University, Beijing, China
71. D. Li, 2013, Dissimilarity between turbulent transport of momentum and temperature: implication for the mean profiles, Guangzhou Institute of Tropical and Marine Meteorology, China Meteorological Administration, Shanghai, China
72. D. Li, 2013, Land-atmosphere interactions over urban terrain, Pacific Northwest National Laboratory, Richland, WA.
73. D. Li, 2011, On the Dissimilarity of Turbulent Transport of Momentum and Scalars, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China.
74. D. Li, 2010, Turbulent Transport: New Perspectives on an Old Subject, Department of Hydraulic Engineering, Tsinghua University, Beijing, China.

PROFESSIONAL ACTIVITIES

- Member, Massachusetts Climate-Hydrology Risk Advisory Panel, 2024 - Present
- Member, Massachusetts Climate Science Advisory Panel, 2024 - Present
- Member, American Meteorological Society Committee on Climate Variability and Change, 2024 - Present
- Member, Predictability, Predictions, and Applications Interface Panel, US Climate Variability and Predictability Program, 2023 - Present

	<ul style="list-style-type: none"> • Board member, International Association for Urban Climate, 2022 - Present • Chair, Outstanding Student Paper Award Committee, Global Environmental Change Section, American Geophysical Union, 2017 • Member, Outstanding Student Paper Award Committee, Global Environmental Change Section, American Geophysical Union, 2016
EDITORSHIP ROLES	<ul style="list-style-type: none"> • Editor, Natural Hazards and Earth System Sciences (NHESS), 2023 - Present • Editor, Journal of the Atmospheric Sciences (JAS), 2025 - Present • Associate Editor, Journal of the Atmospheric Sciences (JAS), 2021 - 2024
CONFERENCE ORGANIZING EXPERIENCE	<ul style="list-style-type: none"> • Session convener and chair, Heat Waves: Mechanisms, Predictability and Prediction, American Meteorological Society Annual Meeting, 2025, 2024, 2023, 2022 • Session convener and chair, Boundary Layer Processes and Turbulence, American Geophysical Union Fall Meeting, 2020, 2019, 2018 • Session convener and chair, Advances in Understanding Impacts of Land Use and Land Cover Change Using Earth System Models and Data Records, American Geophysical Union Fall Meeting, 2020, 2019, 2018 • Session convener and chair, Advances in Understanding Land–Atmosphere Interactions, American Meteorological Society Annual Meeting, 2019 • Session convener, Urban Ecohydrology: understanding urban-natural systems for the design of future cities, European Geophysical Union General Assembly, 2019
UNIVERSITY SERVICES	<ul style="list-style-type: none"> • Academic Policy Committee, College of Arts and Sciences, Boston University, 2023 - Present • Faculty search committee, Department of Earth and Environment, Boston University, 2024 - 2025 • Merit review committee, Department of Earth and Environment, Boston University, 2024 • Merit review committee, Department of Earth and Environment, Boston University, 2022 • Ad hoc Chair committee, Department of Earth and Environment, Boston University, 2022 • Diversity, Equity and Inclusion (DEI) Committee, Department of Earth and Environment, Boston University, 2020 - 2022 • URBAN Research and Travel Award Committee, URBAN Program, Boston University, 2021 • Student Award Committee, Biogeoscience Program, Boston University, 2020, 2016 • Ph.D. admission committee, Department of Earth and Environment, Boston University, 2018

OUTREACH ACTIVITIES

- Speaker, Museum of Science Boston EmPowered by A.I. Forum, 2022
- Lecturer, Boston University Academy Global Climate Change Lecture Series, 2019
- Speaker, Environmental Volunteering Outreach Group - Branch Out, 2016
- Hosted lab visits by high-school students from Boston University Academy as part of their STEM research seminar, 2022, 2021, 2020, 2019

MENTORING

- Research Scientist: Emmanuel Akinlabi
- Postdoctoral Research Associates: Linying Wang
- Ph.D. Students: Liang Wang, Yue Qin, Heng Yu
- Master Students: Shivani Ehrenfeucht, Zekun Lin, Shiqi Tao
- Undergraduate Students: Andrew Pineda, Yaofeng Gu, Kaiya Weatherby, Yiming Zhang
- High-school Students: Sam Zhang, Yuan Cai, Erik Duchnowski, Kaiti Filipou, Abhishikth Lingareddy

TEACHING

- The Atmospheric Boundary Layer, Boston University, 2025, 2022, 2018, 2016 Spring
- Environmental and Geophysical Fluid Dynamics, Boston University, 2018, 2016 Fall
- Introduction to Hydrology, Boston University, 2025, 2024, 2021, 2019, 2017 Spring
- Biogeosciences Colloquium/Practicum, Boston University, 2018 Spring, 2017 Fall
- Urban Climate, Boston University, 2024, 2023, 2022, 2021, 2020, 2019 Fall

GRANTS

- GeoCAFE - An RCN to Convene, Accelerate, Foster, and Expand Geosciences Research Addressing Climate Change Impacts on Human Health (Co-PI, \$499,999), NSF, 5/2024-4/2029
- Safe, Low-Noise Operation of UAM in Urban Canyons via Integration of Gust Outcomes and Trim Optimization (Co-PI, \$454,232 to Li), NASA, 9/2023-8/2026
- Integrated Multi-sector, Multi-scale Modeling framework Phase 2 (Institution PI, \$749,970 to Li), DOE, 11/2020-9/2025
- Collaborative Research: The role of coherent structures in scalar transport over heterogeneous landscapes (PI, \$306,191 to Li), NSF, 6/2019-5/2024
- Collaborative Research: PREEVENTS Track 2: Land-atmosphere feedbacks over urban terrain under heat waves (PI, \$680,273 to Li), NSF, 6/2019-5/2024
- Observational data-driven surface concentrations derived from satellite columns and aircraft profiles (Co-PI, \$164,523 to Li), NASA, 5/2019-5/2023
- Advancing theory and modeling of land-atmosphere coupling over heterogeneous urban terrain (sole PI, \$359,801), ARO, 9/2018-8/2021
- Urban climate modeling in the Integrated Multi-sector, Multi-scale Modeling framework (sole PI, \$245,233), DOE, 11/2018-10/2020
- Hyperresolution large-eddy simulations for assessing the local impacts of heat mitigation strategies (PI, \$24,233), BU-Initiative on Cities, 6/2023-5/2024

- Revolutionizing flow, heat, and dispersion predictions over complex urban environments (PI, \$28,288), BU-Hariri Center, 6/2019-6/2021
- Observing and modeling urban boundary layers under heat waves (PI, \$10,000), BU-Initiative on Cities, 6/2018-5/2019
- Mitigation of Boston heat island effect with urban canopy (co-PI, \$30,000), BU-Pardee Center, 9/2018-8/2020
- Coupled human-natural dynamics in urban heat islands: From big data to local policies (co-PI, \$27,000), BU-Hariri Center, 1/2016-12/2016

MEMBERSHIP

- American Geophysical Union
- American Meteorological Society
- European Geosciences Union