**Suzana J. Camargo**
Lamont-Doherty Earth Observatory, Columbia University
61 Route 9W, 206D Oceanography, Palisades, NY 10964-8000
Phone: (845) 365-8640, Email: *suzana@ldeo.columbia.edu*

## Education

Ph.D. Physics, 1992, *Technical University of Munich (TUM)*, Munich, Germany
M.S. Physics, 1989, *University of São Paulo (USP)*, São Paulo, Brazil
B.S. Physics, 1986, *University of São Paulo (USP)*, São Paulo, Brazil

## Professional Experience

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|---|---|
| 2007 - | **Lamont-Doherty Earth Observatory, Columbia University**, Palisades, NY |
| | *Marie Tharp Lamont Research Professor* (2019 - present) |
| | *Lamont Research Professor* (2013 - 2019) |
| | *Lamont Associate Research Professor* (2010 - 2013) |
| | *Doherty Research Scientist* (2009 - 2010) |
| | *Doherty Associate Research Scientist* (2008 - 2009) |
| | *Associate Research Scientist* (2007 - 2008) |
| 2019 - | **Department of Earth and Environmental Sciences, Columbia University**, New York, NY |
| | *Adjunct Professor* |
| 2018 - | **The Earth Institute, Columbia University**, New York, NY |
| | *Associate Faculty Member* |
| 2018 - | **Master of Science in Sustainability Science, Columbia University**, New York, NY |
| | *Lecturer* |
| 2015 - 2021 | **Initiative on Extreme Weather and Climate, Columbia University**, New York, NY |
| | *Executive Director* |
| 1999 - 2007 | **International Research Institute for Climate and Society (IRI), Columbia University**, Palisades, NY |
| | *Associate Research Scientist* (2003 - 2007) |
| | *Senior Staff Associate* (1999 - 2003) |
| 1996 -1999 | **São Paulo State University (UNESP), Guaratinguetá School of Engineering**, Guaratinguetá, Brazil |
| | *Associate Professor* |
| 1993 - 1996 | **Max-Planck Institute for Plasma Physics (IPP)**, Garching, Germany |
| | *Post-doctoral Research Scientist* |

## Publications

H index: 63 (14,745 citations) - *Google Scholar*; 57 (10,412 citations) - *Web of Science Core Collection*; 03/10/2023
Undergraduate students$^{\dagger}$, graduate students$^{\circ}$, post-docs$^{\star}$ mentored or co-mentored.

170. A. Morales, M.J. Molina, J.E. Trujillo-Falcón, K.M. Nuñez Ocasio, A.L. Lang, E. Murillo, C. Bieri, B.S. Barrett, L. Avilés, and **S.J. Camargo**, 2023. Commitment to Active Allyship is Required to Address the Lack of Hispanic and Latinx Academics and Researchers in the Atmospheric Sciences. *Bull. Amer. Meteor. Soc.*, in press.

169. J.W. Baldwin$^{\star}$, C.-Y. Lee, B.J. Walsh, **S.J. Camargo**, and A.H. Sobel, 2023. Vulnerability in Tropical Cyclone Risk Model: Philippines Case Study. *Weather Clim. Soc.*, early online, doi:10.1175/WCAS-D22-0049.1.

168. I-I Lin, **S.J. Camargo**, C.-C. Lien, C.-A. Shi, and J.P. Kossin, 2023. Poleward migration modulates global warming's impact on tropical cyclones, *npj Clim. Atmos. Sci.*, in press.

167. M. Almazroui, M.A. Ehsan, M.K. Tippett, M. Ismail, M.N. Islam, **S.J. Camargo**, M.A. Abid, E. O'Brien, S. Kamil, A.W. Robertson, B. Singh, M. Hussein, V.M. Omar and A.E. Yousef, 2022. Skill of the Saudi-KAU CGCM in Forecasting ENSO and its Comparison with NMME and C3S Models. *Earth Syst. Environ.*, **6**, 327 - 341, doi: 10.1007/s41748-022-00311-3.

166. S.S. Chand, K.J.E. Walsh, **S.J. Camargo**, J. Kossin, K.J. Tory, M.F. Wehner, J.C.L. Chan, P.J. Klotzbach, A.J. Dowdy, S.S. Bell, H.A. Ramsay, and H. Murakami, 2022. Declining numbers of tropical cyclones and global

warming, *Nat. Clim. Change*, **12**, 655 - 661, doi: 10.1038/s41558-022-01388-4. Associated Content - News and Views: A. Baker, 2022. Global Decline in Frequency, *Nat. Clim. Change*, **12**, 615 - 617, doi: s41558-022-01414-5.

165. I. Datt†, **S.J. Camargo**, A.H. Sobel, R. McTaggart-Cowan and Z. Wang, 2022. An investigation of tropical cyclone development pathways as an indicator of extratropical transition. *J. Meteorol. Soc. Jpn.*, **100**, 707 - 724, doi: 10.2151/jmsj.2022-037.

164. D.I.V. Domeisen, C.J. White, H. Afargan-Gertsman, Á.G. Muñoz, M.A. Janiga, F. Vitart, C.O. Wulff, S. Antoine, C. Ardilouze, L. Batté, H.C. Bloomfield, D. Brayshaw, **S.J. Camargo**, A. Charlton-Pérez, D. Collins, T. Cowan, M. del Mar Chaves, L. Ferranti, R. Gómez, P.L.M. González, C. González Romero, J. M. Infanti, S. Karozis, H. Kim, E.W. Kolstad, E. LaJoie, L. Lledó, L. Magnusson, P. Malguzzi, A. Manrique-Suñén, D. Mastrangelo, S. Materia, H. Medina, L. Palma, L.E. Pineda, A. Sfetsos, S.-W. Son, A. Soret, S. Strazzo, and D. Tian, 2022. Advances in the subseasonal prediction of extreme events. *Bull. Amer. Meteorol. Soc.*, **103**, E1473-E1501, doi: 10.1175/BAMS-D-20-0221.1.

163. M. Hemmati⋆, **S.J. Camargo**, and A.H. Sobel, 2022. How are Atlantic basin-wide hurricane activity and economic losses related? *Environ. Res.: Clim.*, **1**, 021002, doi: 10.1088/2752-5295/aca118.

162. C.-Y. Lee, A.H. Sobel, **S.J. Camargo**, M.K. Tippett, and Q. Yang, 2022. Climate change impacts on NYS hurricane risk in near- and distant-future. *J. Appl. Meteorol. Climatol.*, **61**, 613 - 629, doi: 10.1175/JAMC-D-21-0173.1.

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160. Y. Moon, D. Kim, A.A. Wing, **S.J. Camargo**, M. Zhao, L.R. Leung, M.J. Roberts, D.-H. Cha, and J. Moon, 2022. An evaluation of tropical cyclone rainfall structures in the HighResMIP simulations against satellite observations. *J. Climate*, **35**, 3715 - 3738, doi: 10.1175/JCLI-D-21-0564.1.

159. Y. Niu°, D. Touma, M. Ting, **S.J. Camargo**, and R. Chen, 2022. Assessing heavy precipitation risk associated with tropical cyclones in China. *J. Appl. Meteorol. Climatol.*, **61**, 577 - 591, doi: 10.1175/JAMC-D-21-0166.1.

158. R. Russotto⋆,J.D.O. Strong⋆, **S.J. Camargo**, A. Sobel, G. Elsaesser, M. Kelley, A. Del Genio, Y. Moon, and D. Kim, 2022. Improved Representation of Tropical Cyclones in the NASA GISS-E3 GCM. *J. Adv. Model. Earth Sys.*, **14**, e2021MS002601, doi: 10.1029/2021MS002601.

157. Z. Aarons†, **S.J. Camargo**, J.D.O. Strong⋆, and H. Murakami, 2021. Tropical cyclone characteristics in the MERRA-2 Reanalysis and AMIP simulations. *Earth Space Sci.*, **8**, e2020EA001415, doi: 10.1029/2929EA001415.

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155. S. Dandoy, F.S.R. Pausata, **S.J. Camargo**, R. Laprise, K. Winger, and K. Emanuel, 2021. Atlantic hurricanes response to Sahara greening and reduced dust emissions during the mid-Holocene. *Clim. Past*, **17**, 675-701, doi:10.5194/cp-17-675-2021.

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153. A.H. Sobel, A.A. Wing, **S.J. Camargo**, C.M. Patricola, G.A. Vecchi, C.-Y. Lee, and M.K. Tippett, 2021. Tropical Cyclone Frequency, *Earth's Future*, **9**, e2021EF002275, doi: 10.1029/2021EF002275.

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148. P. Hassanzadeh, C.-Y. Lee, E. Nabizadeh, **S.J. Camargo**, D. Ma and L. Yeung, 2020. Effects of climate change on the movement of future landfalling Texas tropical cyclones, *Nat. Comm.*, **11**, 3319, doi: 10.1038/s41467-020-17130-7.

147. T. Knutson, **S.J. Camargo**, J.C.L. Chan, K. Emanuel, C.-H. Ho, J. Kossin, M. Mohaprata, M. Satoh, M. Sugi, K. Walsh, and L. Wu, 2020. Tropical cyclones and climate change assessment: Part II: Projected response to anthropogenic warming. *Bull. Amer. Meteorol. Soc.*, **101**, E303-E322, doi: 10.1175/BAMS-D-18-0194.1.

146. C.-Y. Lee, **S.J. Camargo**, A.H. Sobel, and M.K. Tippett, 2020. Statistical-dynamical donwscaling projections of tropical cyclone activity in a warming climate: Two diverging genesis scenarios. *J. Climate*, **33**, 4815-4834, doi: 10.1175/JCLI-D-19-0452.1.

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144. Y. Moon, D. Kim, **S.J. Camargo**, A.A. Wing, A.H. Sobel, H. Murakami, K.A. Reed, E. Scoccimarro, G.A. Vecchi, M. Wehner, C. Zarzycki, and M. Zhao, 2020. Wind and thermodynamic structures of tropical cyclones in global climate model simulations and their sensitivity to horizontal resolution. *J. Climate*, **33**, 1575-1595, doi: 10.1175/JCLI-D-19-0172.1.

143. Y. Moon, D. Kim, **S.J. Camargo**, A.A. Wing, K.A. Reed, M.F. Wehner, and M. Zhao, 2020. A horizontal resolution-dependent wind speed adjustment factor for tropical cyclones in climate model resolutions. *Geophys. Res. Lett.*, **46**, e2020GL087528, doi: 10.1029/2020GL087528.

142. L.M. Polvani and **S.J. Camargo**, 2020. Scant evidence for a volcanically forced winter warming over Eurasia following the Krakatau eruption of August 1883. *Atmos. Chem. Phys.*, **20**, 13687-13700, doi: 10.5194/acp-20-13687-2020.

141. C. Raymond, R.M. Horton, J. Zscheischler, O. Martius, A. AghaKoucha, J. Balch, S.G. Bowen, **S.J. Camargo**, J. Hess, K. Kornhuber, M. Oppenheimer, A.C. Ruane, T. Wahl, K. White, 2020. Understanding and managing connected extreme events. *Nature Clim. Change*, **10**, 611-621, doi:10.1038/s41558-020-0790-4. Associated editorial: Moving beyoned isolated events, *Nature Clim. Change*, **10**, 583, doi: 10.1038/s41558-020-0846-5.

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138. M. Bieli°, **S.J. Camargo**, A.H. Sobel, J.L. Evans, and T. Hall, 2019. A global climatology of extratropical transition I: Characteristics across basins. *J. Climate*, **32**, 3557-3582, doi: 10.1175/JCLI-D-17-0518.1.

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135. **S.J. Camargo**, J. Camp, R.L. Elsberry, P.A. Gregory, P.J. Klotzbach, C.J. Schreck, A.H. Sobel, M.J. Ventrice, F. Vitart, Z. Wang, M.C. Wheeler, M. Yamaguchi, and R. Zhan, 2019. Tropical cyclone prediction on subseasonal time-scales. *Trop. Cyclone Res. Rev.*, **8**, 150-165, doi: 10.1016/j.tcrr.2019.10.004.

134. T. Knutson, **S.J. Camargo**, J.C.L. Chan, K. Emanuel, C.-H. Ho, J. Kossin, M. Mohaprata, M. Satoh, M. Sugi, K. Walsh, and L. Wu, 2019. Tropical cyclones and climate change assessment: Part I: Detection and attribution. *Bull. Amer. Meteorol. Soc.*, **100** , 1987-2007, doi: 10.1175/BAMS-D-18-0189.1.

133. E.D. Maloney, D. Barrie, A. Gettelman, A. Mariotti, Y. Ming, J.D. Neelin, C.-C. Chen, D.R.B. Coleman, Y.-H. Kuo, B. Singh, A. Berg, J.F. Booth, **S.J. Camargo**, A. Dai, A. Gonzalez, X. Jiang, X. Jing, D. Kim, Y. Moon, C.M. Naud, A.H. Sobel, K. Suzuki, F. Wang, J. Wang, A.A. Wing, and X. Xu, 2019. Process-oriented evaluation of climate and weather forecasting models. *Bull. Amer. Meteorol. Soc.*, **100**, 1665-1686, doi: 10.1175/BAMS-D-18-0042.1.

132. F.S.R. Pausata and **S.J. Camargo**, 2019. Tropical cyclone activity affected by volcanically induced ITCZ shifts. *Proc. Natl. Acad. Sci.*, **16**, 7732-7737, 10.1073/pnas.1900777116.

131. A. Seth, A. Giannini, M. Rojas, S.A. Rauscher, S. Bordoni, D. Singh, and **S.J. Camargo**, 2019. Monsoon responses to climate changes - Connecting past, present and future. *Curr. Clim. Change Rep.*, **5**, 63-79, doi:10.1007/s40641-019-00125-y.

130. A.H. Sobel, **S.J. Camargo**, and M. Previdi, 2019. Aerosols vs. greenhouse gas effects on tropical cyclone potential intensity and the hydrological cycle. *J. Climate*, **32**, 5511-5527, doi: 10.1175/JCLI-D-18-0357.1. Conference notebook in *Bull. Amer. Meteorol. Soc.*, **99**, 1517-1518 (2018).

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123. A.S. Daloz and **S.J. Camargo**, 2018. Is the poleward migration of tropical cyclone maximum intensity associated with a poleward migration of tropical cyclone genesis? *Clim. Dyn.*, **50** 705-715, doi:10.1007/s00382.

122. L. Gualtieri$^{\star}$, **S.J. Camargo**, S. Pascale, F.M.E. Pons, and G. Ekström, 2018. The persistent signature of tropical cyclones in ambient seismic noise. *Earth Planet. Sci. Lett.*, **484**, 287-294, doi: 10.1016/j.epsl.2017.12.026.

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120. C.-Y. Lee, **S.J. Camargo**, F. Vitart, A.H. Sobel, and M.K. Tippett, 2018. Sub-seasonal tropical cyclone genesis prediction and MJO in the S2S dataset. *Wea. Forecasting*, **33**, 967-988, doi: 0.1175/WAF-D-17-0165.1.

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### Book Chapters

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## Non-Academic Publications

1. M. Barlow and **S.J. Camargo**, "Hurricane Ian capped 2 weeks of extreme stroms around the globe: Here's what's known about how climate change fuels tropical cyclones", The Conversation and State of the Planet, Columbia University, October 2022.
2. **S.J. Camargo**,"Hurricanes are getting scarier", Op-Ed, CNN, September 2021.
3. **S.J. Camargo** and A.H. Sobel, "Climate change didn't cause hurricane Harvey, but it made it worse". Op-Ed Fortune Magazine, August 2017.

## Additional publications

1. D. Domeisen and co-authors (including **S.J. Camargo**), S2S Newsletter, Subseason-to-Seasonal Prediction Project, WCRP, **No. 19**, 4 - 6, April 2022.
2. H. Rajaram, **S. Camargo** et. al., 2022. Thank you to our 2021 peer reviewers.*Geophysical Research Letters*, **49**, e2022GL098947, doi: 10.1029/2022GL098947.
3. **S.J. Camargo** and A.A. Wing, 2021. Increased tropical cyclone risk to coasts. *Science*, **371**, 458-459, doi: 10.1126/science.abg3651.
4. C.-Y. Lee, **S.J. Camargo**, and A.H. Sobel, 2021. S4S Project report on Meteorological Service Component - Meteorological Services during Tropical Cyclone Events in Mozambique. Columbia University, New York, NY, 16 pp.
5. H. Rajaram, **S. Camargo** et. al., 2021. Thank you to our 2020 peer reviewers. **48**, e2021GL09316, *Geophysical Research Letters*, doi:10.1029/2021GL09316.
6. H. Rajaram, **S. Camargo** et. al., 2020. Thank you to our 2019 peer reviewers. **47**, e2020GL088048, *Geophysical Research Letters*, doi:10.1029/2020GL088048.
7. T. Knutson, **S.J. Camargo**, J.C.L. Chan, K. Emanuel, C.-H. Ho, J. Kossin, M. Mohaprata, M. Satoh, M. Sugi, K. Walsh, and L. Wu, 2020. Tropical cyclones in a Warming World: An Assessment of Projections, *Bull. Amer. Meteorol. Soc.*, **101**, 771-774, doi: 10.1175/BAMS-D-18-0194.A.
8. H. Rajaram, N. Diffenbaugh, **S. Camargo** et. al., 2019. Thank you to our 2018 peer reviewers. *Geophysical Research Letters*, **46**, 12608-12636, doi: 10.1029/2019GL084031.
9. A.H. Sobel, **S.J. Camargo**, K.A. Emanuel, and M. Previdi, 2018. Aerosols vs. greenhouse gas influences on tropical cyclone intensity. Presented at the 31st Conference on Climate Variability and Change, 7–11 January 2018, Austin, Texas. In *Nowcast, Conference Notebook*, in *Bull. Amer. Meteor. Soc.*, **99**, 1517-1518.
10. **S.J. Camargo**, 2013. Tropical cyclones in high-resolution climate models. *U.S. CLIVAR Variations*, Vol. 11, No. 3, 4-11.
11. K. Walsh, M. Horn, S. Camargo, H. Murakami, H. Wang, E. Scoccimarro, 2013. Changes in future southern hemisphere tropical cyclone numbers. *U.S. CLIVAR Variations*, Vol. 11, No. 3, 1-4.

12. M. Zhao, I.M. Held, G. Vecchi, E. Scoccimarro, H. Wang, M. Wehner, Y.-K. Lim, T. LaRow, **S.J. Camargo**, K. Walsh, S. Gualdi, A. Kumar, S. Schubert, K.A. Reed, 2013. Robust direct effect of increasing atmospheric $CO_2$ concentration on global tropical cyclone frequency - A multi-model inter-comparison. *U.S. CLIVAR Variations*, Vol. 11, No. 3, 12-17.
13. U.S. CLIVAR Hurricane Working Group, 2013. U.S. CLIVAR Hurricane Workshop Report 2013-5, U.S. CLIVAR Project Office, Washington, DC 20005, 18pp.
14. **S.J. Camargo**, S.E. Zebiak, D.G. deWitt, and L. Goddard, 2001. Seasonal comparison of the response of CCM3.6, ECHAM4.5 and COLA2.0 atmospheric models to observed SST. IRI Technical Report 01-01, International Research Institute for Climate and Society, Columbia University, NY 10964-8000, 68 pp.

## World Meteorological Organization - International Workshop on Tropical Cyclones (IWTC) Reports

1. M.-D. Leroux, P. Klotzbach, **S.J. Camargo**, L.-P. Caron, H. Murakami, C. Schreck, Y. Takaya, F. Vitart, 2022. Beyond synoptic timescales. The Tenth International Workshop on Tropical Cyclones, IWTC-10, Topic Chair Report Topic 6, Bali, Indonesia, December 2022.

2. C. Schreck, F. Vitart, **S.J. Camargo**, J. Camp, J. Darlow, R. Elsberry, J. Gottschalk, P. Gregory, K. Hansen, J. Jackson, M. Janiga, P. Klotzbach, C.-Y. Lee, L. Long, M. Nakano, K. Takamura, Y. Takaya, M. Ventrice, Z. Wang, 2022. Subseasonal TC Prediction. The Tenth International Workshop on Tropical Cyclones, IWTC-10, Rapporteur Report Topic 6.1, Bali, Indonesia, December 2022.

3. **S.J. Camargo**, H. Murakami, N. Bloemendaal, S. Chand, M.S. Deshapande, C. Dominguez-Sarmiento, J.J. González-Alemán, T.R. Knutson, I-I Lin, I.-J. Moon, C.M. Patricola, K.A. Reed, M. Roberts, E. Scoccimarro, C.Y. Tam, E. Wallace, L. Wu, Y. Yamada, W. Zhang, H. Zhao, 2022. Tropical Cyclones and Climate Change. The Tenth International Workshop on Tropical Cyclones, IWTC-10, Rapporteur Report Topic 6.3, Bali, Indonesia, December 2022.

4. K. Wood, W. Yanase, J. Beven, **S.J. Camargo**, J. Courtney, C. Fogarty, J. Fukuda, N. Kitabatake, M. Kucas, R. McTaggart-Cowan, M.S. Reboita, J. Riboldi, 2022. Phase Transitions. The Tenth International Workshop on Tropical Cyclones, IWTC-10, Rapporteur Report Topic 3.3, Bali, Indonesia, December 2022.

5. **S.J. Camargo**, J. Camp, R. Elsberry, P. Klotzbach, C. Schreck, A. Sobel, M. Ventrice, F. Vitart, M. Yamaguchi, R. Zhan, 2018. Tropical cyclone prediction on subseasonal timescales and the S2S database. The Ninth International Wokshop on Tropical Cyclones, IWTC-9, Rapporteur Report, Topic 7.3, Hawaii, USA, December 2018.

6. J. McBride, K. Walsh, M. Sugi, T. Knutson, **S.J. Camargo**, K. Tory, 2014. Climate Change. The Eight International Wokshop on Tropical Cyclones, IWTC-8, Rapporteur Report, Topic 5.1, Jeju, Korea, December 2014.

7. F. Vitart, M. Ballester, E. Blake, **S. Camargo**, J. Camp, J. Chan, P. Klotzbach, Y. Kuleshov, M. Saunders, O.P. Singh, G. Vecchi, and R. Zhan, 2014. Seasonal Forecasts. The Eight International Wokshop on Tropical Cyclones, IWTC-8, Rapporteur Report, Topic 5.2, Jeju, Korea, December 2014.

8. **S.J. Camargo**, 2010. Tropical cyclones in Intraseasonal to Climate Time Scales. The Seventh International Wokshop on Tropical Cyclones, IWTC-7, Topic Chair Report, Topic 3, La Réunion, France, November 2010. Published in the WMO Technical Report, WMO/TD-No 1461, March 2011.

9. **S.J. Camargo**, 2006. Short-term climate (seasonal and intra-seasonal) prediction of tropical cyclone activity and intensity. The Sixth International Wokshop on Tropical Cyclones IWTC-6, Rapporteur Report, Topic 4.3, San José, Costa Rica, November 2006. Published in the WMO Technical Report WMO/TD - No 1383, 2007.

## Geophysical Research Letters Editors' Highlights

1. Editor's Highlights, "How Unexpected Was the 2021 Pacific Northwest Heatwave?", Eos, 30 November 2022.
2. Editors' Highlights, "The Rapid Growth of Tropical Cyclones' Outer Size – A New Concept", Eos, September 12, 2022.
3. Editors' Highlights, "Quantifying Changes in Midlatitude Subseasonal Prediction Skill", Eos, September, 9, 2022.
4. Editors' Highlights, "Landfalling hurricanes intensify due to coastal downwelling", Eos, July 26, 2022.
5. Editors' Highlights, "Westward-propagating moisture mode over the tropical Western Hemisphere", Eos, June 24, 2022.
6. Editors' Highlights, "Framework for Fingerpriting Human Influence on Climate", Eos, March 15, 2022.
7. Editors' Highlights, "Impact of Assimilating Aeolous Winds on Kelvin Waves", Eos, February 11, 2022.
8. Editors' Highlights, "El Niño-Southern Oscillation and Radiation Two-Way Coupling", Eos, February 9, 2022.
9. Editors' Highlights, "Clouds Overshooting Tops and Typhoon Intensity", Eos, December 17, 2021.
10. Editors' Highlights, "Impact of Geostationary Sounder on Typhoon Forecasts", Eos, November 24, 2021.
11. Editors' Highlights, "Simpson's Law Role and Water Vapor Feedbacks", Eos, November 9, 2021.
12. Editors' Highlights, "Tropical Cyclone Induced Increase in Ocean Primary Production", Eos, July 27, 2021.
13. Editors' Highlights, "New Technique to estimate climate sensitivity", Eos, February 3, 2021.
14. Editors' Highlights, "How tropical cyclones increase in intensity overnight" , Eos, December 9, 2020
15. Editors' Highlights, "Post-tropical cyclones influence on European windstorm risk", Eos, October 28, 2020.
16. Editors' Highlights, "Radar Observations of a Tornado Associated with Typhoon Hagibis", Eos, October 23, 2020.
17. Editors' Highlights, "The evolution of observed hurricane eyewall shapes" , Eos, September 16, 2020.
18. Editors' Highlights, "How does convection work over the tropics?" Eos, May 14, 2020.
19. Editors' Highlights, "Understanding tropical rainfall projections under climate change", Eos, February 11, 2020.
20. Editors' Highlights, "Examining the Structure of Tropical Cyclones' Upper Levels", Eos, November 12, 2019.
21. Editors' Highlights, "Vertical Shear and Tropical Cyclone Generated Gravity Waves", Eos, May 14, 2019.
22. Editors' Highlights, "Can Coastal Surface Currents Improve Hurricane Forecasts?", Eos, October 18, 2018.

## Publications in Review

1. **S.J. Camargo**, 2023. Tropical Cyclones, Western North Pacific Basin, in *State of the Climate in 2022*, *Bull. Amer. Meteor. Soc.*, submitted, January (2023).
2. **S.J. Camargo**, H. Murakami, N. Bloemendaal, S. Chand, M.S. Deshpande, C. Dominguez-Sarmiento, J. J. González-Alemán, T.R. Knutson, I-I Lin, I.-J. Moon, C.M. Patricola, K.A. Reed, M. Roberts, E. Scoccimarro, C. Y. Tam, E. Wallace, L. Wu, Y. Yamada, W. Zhang, and H. Zhao, 2023. Climate change and tropical cyclones: An update. *Tropical Cyclone Research and Review*, submitted March (2023).
3. C.A. Dirkens, A.A. Wing, **S.J. Camargo**, and D. Kim, 2023. Process-oriented diagnosis of tropical cyclones in reanalyses using a moist static energy variance budget. *Journal of Climate*, submitted May (2022), revised November (2022) and February (2023).

4. C.-Y. Lee, A.H. Sobel, M.K. Tippett, **S.J. Camargo**, M. Wüest, M. Wehner, H. Murakami, 2023. Climate change in signal in Atlantic tropical cyclones today and near future. *Earth's Future*, submitted January (2023).
5. J.L. García-Franco, C.-Y. Lee, **S.J. Camargo**, M.K. Tippett, D. Kim, A. Molod, and Y.-K. Lim, 2023. Climatology and tropical cyclone precipitation in the S2S models. *Weather and Forecasting*, submitted February (2023).
6. S.S. Chand, K.J.E. Walsh, **S.J. Camargo**, J. Kossin, K.J. Tory, M.F. Wehner, J.C.L. Chan, P.J. Klotzbach, A.J. Dowdy, S.S. Bell, H.A. Ramsay, and H. Murakami, 2023. Reply to the comment by Emanuel on "Declining numbers of tropical cyclones and global warming," *Nature Climate Change*, submitted March (2023).
7. P. Orenstein, A.H. Sobel, **S.J. Camargo**, G.S. Elsaesser, and P. Garg, 2023. The Global Relationship Between Satellite-Observed Cold Pools and Rainfall, 2023. *Journal of Climate*, to be submitted March (2023).
8. C.J. Schreck III, F. Vitart, **S.J. Camargo**, J. Camp, J. Darlow, R. Elsberry, J. Gottschalck, P. Gregory, K. Hansen, J. Jackson, M. Janiga, P. Klotzbach, C.-Y. Lee, L. Long, M. Nakano, K. Takemura, Y. Takaya, M. Ventrice, and Z. Wang, 2023. Tropical cyclone prediction on subseasonal scales. *Tropical Cyclone Research and Review*, submitted March (2023).
9. A.H. Sobel, C.-Y. Lee, S.G. Bowen, **S.J. Camargo**, M.A. Cane, A. Clement, B. Fosu, M. Hart, K.A. Reed, R. Seager, and M.K. Tippett, 2022. Near-term tropical cyclone risk and coupled Earth system model biases. *PNAS*, submitted January (2023).
10. H. von Storch, R. Blender, **S.J. Camargo**, L. Cavicchia, F. Feser, G. Fu, L.F. Gozzo, E. Koks, M. Messmer, N. Mori, M. Priestley, D.M. Schultz, and R. Weiss, 2023. Storms - a key coastal Hazard, *Oxford University Press Research Encyclopedia on Climate Sciences*, submitted, November (2022).
11. K. Wood, W. Yanase, J. Beven, **S.J. Camargo**, J.B. Courtney, C. Fogarty, J. Fukuda, N. Kitabatake, M. Kucas, R. McTaggart-Cowan, M.S. Reboita, J. Riboldi, 2023. Phase Transitions between Tropical, Subtropical, and Extratropical Cyclones. *Tropical Cyclone Research and Review*, submitted March 2023.

## Scholarships and Awards

Included in *Top 1000 Climate Scientists* list, Reuter, 2021.

Included in *2% Top Scientists Citations* List (Stanford University) for years 2017- 2022 (doi: 10.17632/ btchxtzyw).

*Vetlesen Foundation* annual gift to the Lamont-Doherty Earth Observatory salary support 2020 - present.

*American Meteorological Society (AMS), Scientific and Technological Activities Commission Distinguished Scientific Technological Accomplishment Award*, AMS Committee on Climate Variability and Change, 2020

*12th Severo Ochoa Mobility Program*, Barcelona Supercomputing Center, Barcelona, Spain, 2019

*2019 Editor's Award, Journal of Climate*, American Meteorological Society

*2010 Editor's Citation for Excellence in Refereeing*, Geophysical Research Letters, American Geophysical Union

*Young Researchers in Developing Centers Fellowship*, The State of São Paulo Research Foundation (FAPESP), São Paulo State University, Brazil, 1996-1998

*Ph.D. Scholarship*, German Academic Exchange Service (DAAD), Max-Planck Institute for Plasma Physics, Garching, Germany, 1989-1991

*Ph.D. Scholarship*,The State of São Paulo Research Foundation (FAPESP), São Paulo University, Brazil, 1989

*M.Sc. Scholarship*, The State of São Paulo Research Foundation (FAPESP), São Paulo University, Brazil, 1987-1989

*Scientific Initiation Scholarship*, The State of São Paulo Research Foundation (FAPESP), São Paulo University, Brazil, 1985-1986

## Mentoring

### Postdoctoral Researchers

*Katrina L. Hui*, postdoctoral research scientist, main mentor Michela Biasutti, other co-mentor Adam Sobel, April 2022 - present.

*Jorge García-Ramos*, postdoctoral research scientist, main mentor Chia-Ying Lee, other co-mentor Michael K. Tippett, February 2022 - present.

*Mona Hemmati*, post-doctoral research scientist, co-mentors Adam Sobel and Chia-Ying Lee, July 2021 - present.

*Nadia Bloemendaal*, post-doctoral research scientist, co-mentor Adam Sobel, other senior scientists involved in the project Chia-Ying Lee and Michael K. Tippett, collaboration between Vrije University, Amsterdam, The Netherlands and Lamont-Doherty Earth Observatory, Columbia University, December 2021 - December 2022, currently Assistant Professor, Vrije University, Amsterdam.

*Boniface Fosu*, post-doctoral research scientist, main mentor Adam Sobel, other co-mentors Chia-Ying Lee and Michael K. Tippett, January - December 2021, currently Assistant Professor, Mississippi State University.

*Rick Russotto*, post-doctoral research scientist, co-mentors Michela Biasutti and Adam Sobel, July 2020 - May 2021, currently Scientist, Gro Intelligence.

*Jane Baldwin*, Lamont postdoctoral fellow, co-mentor Adam Sobel, September 2019 - June 2021, currently Assistant Professor, University of California Irvine.

*Jeffrey Strong*, postdoctoral research scientist, co-mentor Adam Sobel, December 2017 - December 2019, currently scientist, AIR Worldwide.

*Allison Wing*, NSF postdoctoral research fellow, co-mentor Adam Sobel, October 2014 - December 2016, currently Associate Professor, Florida State University.

*Chia-Ying Lee*, postdoctoral research scientist, co-mentors Adam Sobel and Michael Tippett, October 2013 - September 2016, currently Lamont Associate Research Professor, Lamont-Doherty Earth Observatory, Columbia University.

*Hamish Ramsay*, NASA GISS post-doctoral fellow 2009-2011, co-mentor, main mentor Adam Sobel, currently senior scientist, CSIRO Australia.

**PhD Students**

*Patrick Orenstein*, APAM PhD student, co-mentors Adam Sobel and Greg Elsässer, June 2020 - present.

*Melanie Bieli*, APAM PhD student, co-mentor Adam Sobel, 2015 - 2019, PhD awarded 2019, currently Natural Catastrophe Specialist, SwissRe.

*Daniel Shaevitz*, APAM PhD student, co-mentor Adam Sobel, 2012 - 2014, PhD awarded 2016 (not part of PhD defense committee), currently Director at SMBC.

**Master Students and Graduate Research Assistants**

*Xiaoxue Ren*, independent research mentor, Masters program, Statistics Department, February 2023 - present.

*Christina Francis*, Bridge to PhD scholar, co-mentor Chia-Ying Lee, August 2021 - present.

*Mengjie Zhang*, research assistant, Masters program, Statistics Department, co-mentor Chia-Ying Lee, March - December 2022.

*Cyril Gilman*, research assistant, June - October 2022.

*Lizhe Zhao*, Data Science Institute Scholar, co-mentor Chia-Ying Lee, November 2020 - April 2021; research assistant, May - December 2021.

*Zoe Aarons*, summer research assistant, June - August 2020, currently PhD student, Massachusetts Institute of Technology.

*Xinran Wang*, graduate student in the Data Science Masters program, July - September 2016, subsequently data analyst, Yale Program on Climate Change Communication.

*Yun Lu*, graduate student in the Climate and Society Masters Program, September 2013 - August 2014, subsequently forecaster at Ningbo Meteorological Bureau, China.

*Daniel Shaevitz*, Research Assistant, co-mentor Adam Sobel, April - August 2012.

*Ken Zhao*, APAM graduate student, co-mentor Adam Sobel, July 2011 - August 2012.

*Hui Shi*, graduate student in the Master of Science in Climate and Society program, co-mentor Adam Sobel, September 2011 - May 2012.

*Gino Chen*, graduate student in the Climate and Society Masters Program, May - August 2009, subsequently obtained PhD at University of Miami (2018).

### Undergraduate Research Assistants

*Sophia diPietro*, Barnard College, October 2022 - present.

*King Heng Lau*, The Chinese University of Hong Kong, summer intern, main mentor Jorge García-Franco, June - July 2022.

*Cyril Gilman*, Columbia College, research assistant, co-mentor Chia-Ying Lee, September 2021 - May 2022.

*Cyril Gilman*, Columbia College, LDEO summer intern, co-mentor Chia-Ying Lee, June - August 2021.

*Shriya Fruitwala*, Haverford College, LDEO summer intern, co-mentor Chia-Ying Lee, June - August 2021.

*Ishan Datt*, Columbia Engineering School, co-mentor Adam Sobel, May 2019 - August 2021, currently trader, J.P. Morgan.

*Iris Liu*, Barnard College, co-mentor Adam Sobel, February 2019 - January 2021.

*Zoe Aarons*, Bowdoin College, LDEO Summer Internship Program fellow, June - August 2018, currently PhD student, Massachusetts Instituteo of Technology.

*Helena V. Rios*, Columbia College, co-mentor Adam Sobel, January - August 2018.

*June Yang*, Columbia Engineering School, co-mentor Adam Sobel, June 2017 - May 2018.

*Earle Wilson*, Columbia Engineering School, January - May 2010, co-mentor Adam Sobel (main mentor) and Michael Tippett, currently Assistant Professor Stanford University.

*Allison Wing*, Cornell University, summer intern, June - August 2007, co-mentors Adam Sobel and Lorenzo Polvani, currently Associate Professor, Florida State University.

*Allison Wing*, Cornell University, LDEO Summer intern, May - August 2006, co-mentor Adam Sobel, currently Associate Professor, Florida State University.

*Colby Blitz*, Earth Institute research assistant, Fall 2004, co-mentors Alessandra Giannini (IRI, main mentor) and Beate Liepert.

*Colby Blitz*, Earth Institute Summer Intern Program, June - August 2004, co-mentors Alessandra Giannini (main mentor) and Beate Liepert.

### High School Students

*Kathryn Jordan*, Authentic Research Program, Toms River High School South, Toms River, NJ, October 2011 - June

*Brenden Moses*, Authentic Science Research Program, Byram Hills High School, Armonk, NY, July - August 2010, co-mentors Andrew Robertson (IRI, main mentor), and Bradfield Lyon (IRI).

*Michelle Hoffner*, Ossining High School, Science Research Program, Ossining, NY, October 2005 - June 2006.

## Graduate Students Committees

### PhD Committees - Columbia University

*Avriel Diaz*, Department of Earth and Environmental Sciences, Columbia University, PhD committee member, other committee members: Ángel Muñoz (advisor), October 2021 - present.

*Laurel DiSera*, Department of Earth and Environmental Sciences, Columbia University, PhD committee member, other committee members: Ángel Muñoz (advisor), Yochanan Kushnir, September 2021 - present (Qualifying Exam, Spring 2022).

*Patrick Orenstein*, Department of Applied Physics and Applied Mathematics, Columbia University, PhD committee member as co-advisor, other committee members: Adam Sobel (co-advisor), Greg Elsässer (co-advisor), 2020 - present (Orals Exam, Fall 2021, Thesis proposal, Spring 2022).

*Melanie Bieli*, PhD in Applied Mathematics, Department of Applied Physics and Applied Mathematics, Engineering School, Columbia University, PhD committee member as co-advisor, other committee members: Adam Sobel (co-advisor), Lorenzo Polvani, and Kyle Mandli, 2015-2019.

*Denyse Dookie*, PhD in Sustainable Development, School of International & Public Affairs, Columbia University, as External Committee Member, other committee members: Daniel Osgood, John Mutter (chair), Doug Almond, Roger Pulwarty, May 2019.

*Emmi Yonekura*, PhD in Earth and Environmental Sciences, Department of Earth and Environmental Sciences, School of Arts and Sciences, Columbia University, PhD committee member, other members of the committee: Timothy Hall (advisor), Anthony del Genio, 2008 - 2013.

### PhD Committees - Other Universities

*Alberto José Bié*, Institute of Astronomy, Geophysics and Atmospheric Sciences, São Paulo University, Brazil, external committee member, advisor: Ricardo de Camargo, March 2022.

*Thao Linh Tran*, University of South Wales, Australia, external committee member, advisor: Elizabeth Ritchie, April 2022.

*Nadia Bloemendaal*, Vrijie Universiteit, Amsterdam, Netherlands, as External Examiner of PhD Committee, other commitee members: Jeroen Aerts (advisor), Hans de Moel, Sanne Muis, James Done, August - November 2021.

*Armenia Franco Díaz*, Department of Meteorology, University of Reading, United Kingdom, as External Examiner of PhD Committee, other commitee members: Steven Woolnough (chair), Oscar Martinez-Alvarado, Pier Luigi Vidale (advisor), October 2020.

*Danielle Touma*, PhD defense committee, Stanford University, as external committee member, other committee members: Dustin Schroeder (chair), Noah Diffenbaugh, Rob Jackson, Morgan O'Neill, November 2018.

### Other Students' Committees

*Samuel Eberenz*, ETH, Zurich, Switzerland, Independent expert. ETH-Medal, August 2021.

*Shannon Bohman*, Department of Earth and Environmental Sciences, Columbia University, Qualifying Exam committee member, June 2021.

*Tyler Janoski*, Department of Earth and Environmental Sciences, Columbia University, Orals Exam committee member, September 2020.

*Congyu Yu*, Department of Earth and Environmental Sciences, Columbia University, Orals Exam committee member, July 2020.

*Aaron Stubblefield*, Department of Earth and Environmental Sciences, Columbia University, Orals Exam committee member, May 2020.

*Jhordanne Jones* External examiner M. Phil thesis in Physics, University of West Indies, Mona Campus, Jamaica, 2016.

## Teaching Experience

- **Columbia University, Columbia College, New York, NY**

  *Earth's Environmental Systems: The Climate System - EESC UN2100*, Department of Earth and Environmental Sciences, Fall 2020 (co-instructor Galen McKinley), Fall 2021 (co-instructor Jerry McManus), Fall 2022 (co-instructor Galen McKinley), Fall 2023 (planned, co-instructor Jerry McManus).

- **Columbia University, School of Professional Studies, New York, NY**

  *Sustainability in the face of Natural Hazards - SUSC PS504*, Master of Science in Sustainability Science, co-instructor Einat Lev, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023.

  *Understanding Extreme Events*, *Columbia University Girls in STEM Initiative* for under-represented high-school girls, high-school summer program, 1 week course, Summer 2017, Miami, FL

- **São Paulo State University - Unesp, Department of Chemistry and Physics, Guaratinguetá, SP, Brazil**

  *General Physics I* undergraduate program in Engineering (1996, 1997, 1998, 1999)

  *General Physics II* undergraduate program in Engineering (1996, 1998)

  *Classical Mechanics I* undergraduate program in Physics (1998, 1999)

  *Classical Mechanics II* undergraduate program in Physics (1998)

  *Quantum Mechanics I* undergraduate program in Physics (1996, 1997)

  *Quantum Mechanics II* undergraduate program in Physics (1996)

  *Mathematical Physics II* undergraduate program in Physics (1996) (co-teaching)

- **São Paulo University - USP, Physics Institute, São Paulo, SP, Brazil**

  *Turbulence in Plasmas and Fluids*, graduate program in Plasma Physics, 2 weeks course (1995)

## Memberships

American Association for the Advancement of Science, since 2020
American Geophysical Union, since 2000
American Meteorological Society, since 1999
European Geophysical Union, since 2020

## External Committees and Community Service

Member, *American Meteorological Society Scientific and Technological Activities Commission, Committee on Tropical Meteorology and Tropical Cyclones*, January 2023 - present.

Member, *American Meteorological Society Scientific and Technological Activities Commission, Committee on Climate Variability and Change*, January 2022 - present.

Member, *University Corporation for Atmospheric Research*, Columbia University representative, September 2021 - present.

Academic Ambassador, *American Meteorological Society Committee for Hispanic and Latinx Advancement (CHALA)*, July 2021 - present.

Editor *Geophysical Research Letters*, December 2017 - present.

Associate Editor, *Journal of Climate*, August 2016 - present.

Member of the *NOAA Model Diagnostics Task Force Phase 3*, 2021 - present.

*American Geophysical Union Hurricanes Expert* for Media contact, 2016- present.

*Contributor* to the annual *State of the Climate* article published in the *Bulletin of the American Meteorological Society*, as an author of the western North Pacific typhoon season 2001 - present.

*Tenth International Workshop on Tropical Cyclones, IWTC-10*, Rapporteur for topic 6.3 "Tropical Cyclones and Climate Change"', contributing author for topic 6.1 "Subseasonal TC prediction" (rapporteurs: Carl Schreck and Frédéric Vitart), and topic 3.3 "Phase Transition" (rapporteurs: Kimberly Wood and Wataru Yanase), member of Recommendations Committee, World Meteorological Organization, World Meteorological Program, Bali, Indonesia, December 2022.

Member, *AGU Natural Hazards Section awards committee*, 2021 - 2022.

Member, *President's Advisory Committee on University Relations - PACUR*, University Coorporation for Atmospheric Research - UCAR, 2019 - 2022.

Member of the *NOAA Model Diagnostics Task Force Phase 2*, 2018 - 2021.

Member of the *WMO Task Team on Climate Change Impacts on Tropical Cyclones*, 2017 - 2022.

Contributing Author, *The Intergovernamental Panel of Climate Change (IPCC), Six Assessment Report (AR6), Working Group I, Chapter 11, Weather and climate extreme events in a changing climate*, 2020 - 2021.

Coordinator AGU Natural Hazards Section, *Outstanding Student Presentation Awards (OSPA)*, AGU Fall 2020.

Secretary, *Natural Hazards Section*, American Geophysical Union, 2019 - 2020.

Member of the *NOAA Subseasonal to Seasonal (S2S) Task Force*, 2016 - 2020.

Reviewer, *Connecticut Physical Climate Assessment Report (PCSAR)*, September 2018.

Member of the *NOAA Model Diagnostics Task Force*, September 2015 - August 2018.

*Ninth International Workshop on Tropical Cyclones, IWTC-9*, rapporteur for topic "Tropical cyclone prediction in subseasonal timescale and the S2S database", contributing author for topics "Tropical cyclones and climate change" (rapporteur: Kevin Walsh and "Extratropical transition" (rapporteurs: Ron McTaggart-Cowen and Clark Evans). World Meteorological Organization, World Meteorological Program, Honolulu, Hawaii, December 2018.

*Eighth International Workshop on Tropical Cyclones, IWTC-8*, contributing author, Working Group 5.2: Tropical cyclones seasonal forecasts (rapporteur F. Vitart) and Working Group 5.1: tropical cyclones interaction with climate change (rapporteurs J. McBride and K. Walsh), World Meteorological Organization, World Meteorological Program, Jeju Island, Korea, December, 2014.

*Section co-Editor: Current Climate Change Reports* special issue on extreme events, 2014-2015, 2015-2016.

Reviewer for the *National Research Council Research Associateship Programs, National Academy of Sciences*, 2013 - 2016.

*Member of Earth System Prediction Capability (ESPC) science team for "Seasonal Prediction of Tropical Cyclone (TC) Threats"*, May 2012 - 2013. Team Leader: Melinda Peng (Naval Research Laboratory).

*Member of NOAA MAPP CMIP5 Task Force*, November 2011 - October 2014. Leader: Jim Kinter (COLA), Co-leaders: Justin Sheffield (University of Princeton) and Eric Maloney (Colorado State University).

*Co-chair: US-CLIVAR Hurricanes and climate working group*, January 2011 - December 2014. Other co-chairs: Kevin Walsh and Gabriel Vecchi.

*Member NSF Graduate Research Fellowship Program Geosciences 2 panel*, January 2014, January 2015 (off-site, online).

*Member 2012 NSF Graduate Research Fellowship Program Geosciences 2 panel*, January 11-13, 2012, Washington, D.C.

*Member of the CLIVAR Atlantic Implementation Panel*, October 2008 - December 2012.

Participation in the *RMS (Risk Management Solutions) elicitation process* for expected Atlantic hurricane activity for the next 5 years as an expert, 2006 (New York, NY), 2007 and 2008 (Miami, FL).

*Coordinator of the WMO (World Meteorological Organization) committee* on seasonal tropical cyclone forecasts 2006-2013; overall coordinator Johnny Chan (City University of Hong Kong).

*Seventh International Workshop on Tropical Cyclones, IWTC-7*, contributing author, *Topic Section chair - Topic 3*, Tropical Cyclone activity from Intraseasonal to Climate Time Scales. contributing author, subtopic 2.3: Tropical cyclone formation forecasting, member of the Recommendations Committee, World Meteorological Organization, World Meteorological Program, 14-20 November 2010, La Réunion, France.

*Sixth eventh International Workshop on Tropical Cyclones, IWTC-6*, Rapporteur sub-topic 4.3: Short-term climate (seasonal and intraseasonal) predictions of tropical cyclone activity/intensity, World Meteorological Organization, World Meteorological Program, 21-30 November 2006 in San José, Costa Rica.

*Proposal Reviewer* for: NOAA, NSF, NASA, various international funding agencies.

## Scientific Visits

*European Centre for Medium-Range Weather Forecasts*, Reading, United Kingdom, October 2019, host: Dr. Fréderic Vitart.

*Barcelona Super Computing Center, Earth Sciences Department*, Barcelona, Spain, September - November, 2019, hosts: Dr. Francisco Doblas-Reyes, Dr. Louis-Philippe Caron.

*European Centre for Medium-Range Weather Forecasts*, Reading, United Kingdom, November 2018, host: Dr. Fréderic Vitart.

*University of Melbourne*, Melbourne, Australia, January 2016, host: Prof. Kevin Walsh

*Swiss Federal Institute of Technology (ETH)*, Zürich, Switzerland, August 2015, host: Prof. Tapio Schneider

*Dynamic Meteorology Laboratory, École Normale Supérieure*, Paris, France, March 2015, host: Prof. Jean-Philippe Duvel

## Colloquia and Seminars

*NASA/GSFC Global Modeling and Assimilation Office (GMAO)* May 09, 2023 (scheduled).

*Department of Geosciences, University of Chicago*, March 31, 2023.

*SUNY Albany Atmospheric Science Seminar*, October 25, 2021 (virtual).

*RISK KAN: Compound Extremes Webinar*, October 20, 2021 (virtual).

*University of New Mexico*, Albuquerque, NM, March 12, 2021 (virtual).

*University of Central Florida*, Orlando, FL, November 6, 2020 (virtual).

*Massachusetts Institute of Technology (MIT)*, Cambridge, MA, October 26, 2020 (virtual).

*Swiss Federal Institute of Technology (ETH)*, Zürich, Switzerland, November 11, 2019.

*Barcelona Supercomputing Center*, Barcelona, Spain, October 29, 2019.

*Barcelona Supercomputing Center*, Barcelona, Spain, September 19, 2019.

*National Autonomous University of Mexico*, Mexico City, Mexico, August 13, 2019.

*National Center for Disaster Preparednes*, Earth Institute, Columbia University, New York, NY, April 25, 2019.

*University of Oklahoma*, Norman, Oklahoma, April 22, 2019.

Geodynamics Seminar Series, *Woods Hole Oceanographic Institution*, Woods Hole, MA, April 2, 2019.

*Rutgers University*, New Brunswick, NJ, January 29, 2019.

*ECMWF*, Reading, United Kingdom, November 16, 2018.

*University of Reading*, Reading, United Kingdom, November 9, 2018.

*U.K. Met Office*, Exeter, United Kingdom, November 7, 2018.

*University of Exeter*, Exeter, United Kingdom, November 6, 2018.

*NOAA Geophysical Fluid Dynamics Laboratory*, Princeton, NJ, October 25, 2018.

*Purdue University*, West Lafayette, IN, October 16, 2018.

*Indiana University*, Bloomington, IN, October 15, 2018.

*University of Connecticut*, Storrs, CT, October 12, 2018.

*Lawrence Berkeley National Laboratory*, Berkeley, CA, March 12, 2018.

Brown Bag Seminar, *Stanford University*, Stanford, CA, March 9, 2018.

*Center for Weather Forecasting and Climatic Studies*, Cachoeira Paulista, Brazil, January 30, 2018.

*Stevens Institute of Technology*, Hoboken, NJ, November 13, 2017

*University of Illinois Urbana-Champaign*, Urbana, IL, November 7, 2017

*University of Stockholm*, Stockholm, Sweden, March 3, 2017

*Bureau of Meteorology*, Melbourne, Australia, January 28, 2016

*University of Melbourne*, Melbourne, Australia, January 27, 2016

*Monash University*, Clayton, Australia, January 21, 2016

*Physics Institute, São Paulo University*, São Paulo, Brazil, October 16, 2015

*NASA Goddard Institute of Space Studies (GISS)*, New York, NY, September 4, 2015

*Swiss Federal Institute of Technology (ETH)*, Zürich, Switzerland, August 20, 2015

*Massachusetts Institute of Technology (MIT)*, Cambridge, MA, May, 4, 2015

*Texas A&M University*, College Station, TX, September 30, 2014

*Stanford University*, Stanford, CA, November 9, 2011

*Stony Brook University*, Stony Brook, NY, April 7, 2010

*Lamont-Doherty Observatory, Columbia University*, April 10, 2009

*Rutgers University*, New Brunswick, NJ, March 25, 2009

*National Taiwan University*, Taipei, Taiwan, March 10, 2009

*Central Weather Bureau*, Taipei, Taiwan, March 9, 2009

*Meteorological Research Institute*, Tsukuba, Japan, February 17, 2009

*University of Wisconsin-Madison*, Madison, WI, November 17, 2008

*North Carolina State University*, Raleigh, NC, August 22, 2008

*Institute of Astronomy, Geophysics and Atmospheric Sciences, São Paulo University*, São Paulo, Brazil, February 15, 2008

*State University of New York at Albany*, Albany, NY, November 5, 2007

*National Center for Atmospheric Research (NCAR)*, Boulder, CO, July 25, 2007

Disaster and Development Brown Bag Seminar, *School of International and Public Affairs (SIPA), Columbia University*, New York, NY, May 2, 2007

*NASA Goddard Institute of Space Studies (GISS)*, New York, NY, November 3, 2006

*Columbia SIAM (Society for Industrial and Applied Mathematics) Chapter Lecture, Columbia University*, New York, NY, November 9, 2005

*Lamont-Doherty Observatory, Columbia University*, February 18, 2005

*Department of Applied Physics and Applied Mathematics, Columbia University*, New York, NY, October 10, 2002

*Institute of Astronomy, Geophysics and Atmospheric Sciences, São Paulo University*, São Paulo, Brazil, August 14, 2002

*International Research Institute for Climate and Society*, Palisades, NY, September 28, 2000

*Max-Planck Institute for Plasma Physics*, Garching, Germany, July 1998

*São Paulo State University*, Guaratinguetá, Brazil, June 1998

*Physics Institute, São Paulo University*, São Paulo, Brazil, March 1998

*National Institute of Spatial Research (INPE)*, São José dos Campos, Brazil, December 1996

*University of Maryland*, College Park, MD, August 1996

*Physics Institute, São Paulo University*, São Paulo, Brazil, June 1996

*Max-Planck Institute for Plasma Physics*, Garching, Germany, June 1994

*Physics Institute, São Paulo University*, São Paulo, Brazil, January 1994

*Physics Institute, São Paulo University*, São Paulo, Brazil, January 1993

*Max-Planck Institute for Plasma Physics*, Garching, Germany, December 1992

*Free University of Brussels*, Brussels, Belgium, October 1992

*Max-Planck Institute for Plasma Physics*, Garching, Germany, July 1992

*Max-Planck Institute for Plasma Physics*, Garching, Germany, December 1991

*Max-Planck Institute for Plasma Physics*, Garching, Germany, March 1990

## Public Lectures and Panels

AGU Atmospheric Sciences Section, Early Career Committee, Panel on *Best Practices in Reviewing Articles*, May 2022.

Verisk Envision, *Panel on Climate Change*, Miami, April 2022.

Okinawa Institute of Science and Technology Graduate University Foundation, November 2021 (virtual).

Columbia Climate School Panel, *Going to Extremes: Global Hazards and the Path to Resilience*, October 2021 (virtual).

AIG Recalibrating Risk, August 2021 (virtual).

34th Conference on Hurricanes and Tropical Meteorology, Climate Change and Hurricanes Panel, May 2021 (virtual).

Waterfront Conference, May 2021 (virtual).

Climate Reality NYC, Panel, November 2020 (virtual).

Lamont Open House Panel, *Beyond Hot Headlines*, October 2020 (virtual).

*New City Library*, New City, NY, February 26, 2020.

*Nyack Library*, Nyack, NY, July 31st, 2019.

*When Science Meets History* Lecture Series, Bird Homestead & Meeting House Conservancy, Rye, NY, April 27, 2019.

*Symposium on Science Policy*, Women in Science at Columbia & Columbia Engineering Energy Club, Columbia University, New York, NY, March 13, 2019, invited speaker and panelist.

*Rockland Center for the Arts*, West Nyack, NY, Climate Change communication panel, May 12, 2018.

*Dominican Convent*, Sparkill, NY, February 20, 2018.

*International Women's Forum*, invited panelist, Houston, TX, October 25, 2017

Lamont Open House 2016, Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, October 9, 2016

Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, Brazilian delegation from program "Ciência Sem Fronteira", August 14, 2015

Panel participant, Energy and Environment Conference, School of International and Public Affairs, Columbia University, September 2013

Lecture to Seniors of Rockland County, AARP Meeting, Jewish Community Center, West Nyack, NY, May 22, 2013

Keynote Speaker Nyack High School Science Symposium, Nyack, NY, April 25, 2012

Lamont Open House 2012, Lamont-Doherty Earth Observatory, Palisades, NY, October 10, 2012

Lecture to the Nyack Boat Club, in Nyack, NY, January 19, 2012 Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY,

*Lamont summer interns 2011 lecture*, July 12, 2011

Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, Visit of the Pan American High School November 4, 2011

Panel discussion, Lamont Open House 2011, Lamont-Doherty Earth Observatory, Palisades, NY, October 11, 2011

Career Day at Nyack Middle School, Nyack, NY, March, 4, 2010 and March, 31, 2011

Lamont Open House 2010, Lamont-Doherty Earth Observatory, Palisades, NY, October 2, 2010

Lamont Leadership Forum, June 4, 2009, Lamont Campus, Columbia University, Palisades, NY

*Tipping Point Workshop*, organized by the British Council, the Institute for Sustainable Cities of the City University of New York and The Earth Institute of Columbia University, December 6-7, 2009, Palisades, NY.

Lamont Open House 2008, Lamont-Doherty Earth Observatory, Palisades, NY, October 4, 2008

Various presentations on climate, hurricanes, El Niño, climate change, and being a scientist for K-5 students at the Upper Nyack Elementary School, Nyack, NY, 2000 - 2007

*Global Roundtable on Climate Change*, Fall 2005 Conference, Technology and Economics: Moving Toward Solutions, invited panelist, Columbia University, November 15, 2005

Lamont Open House 2005, Lamont-Doherty Earth Observatory, Palisades, NY, October 1, 2005

*Understanding Katrina: Examining the Science, Physical Vulnerabilities, and Social Consequences*, Earth Institute Seminars on Sustainable Development, The Earth Institute at Columbia University and Columbia University School of International and Public Affairs (SIPA), November 11, 2005, Columbia University, NY (invited panelist)

Lamont Open House 2004, Lamont-Doherty Earth Observatory, Palisades, NY, October 9, 2004

Discussion with High School Students about Science Careers, 92nd Street Young Men's and Young Women's Hebrew Association, New York, NY, March 4, 2003

Lamont Open House 2002, Lamont-Doherty Earth Observatory, Palisades, NY, October 5, 2002

Lamont Open House 2001, Lamont-Doherty Earth Observatory, Palisades, NY, October 6, 2001

Lamont Open House 2000, Lamont-Doherty Earth Observatory, Palisades, NY, October 4, 2000

## Invited Lectures

*Environmental Science for Sustainable Development* class, Guest Lecture, School of International and Public Affairs, Columbia University, September 21, 2022, (invited by Prof. John Mutter).

*Climate Systems* class, Spring 2022, two guest lectures, Columbia University, April 19 and 21, 2022 (invited by Prof. Jerry McManus).

*Environmental Science for Sustainable Development* class, Guest Lecture, School of International and Public Affairs, Columbia University, September 29, 2021, (invited by Prof. John Mutter).

*Insurance Management Program, School of Professional Studies*, new program on climate/weather and insurance. Recorded lecture, April 2021 (invited by Teresa W. Chan, Director).

*Environmental Science for Sustainable Development* class, Guest Lecture, School of International and Public Affairs, Columbia University, September 16, 2020, (invited by Prof. John Mutter).

*Climate Change and its Impact on Health and the Environment* class, Weill-Cornell Medicine, Cornell University, March 2, 2020 (invited by Prof. Madelon L. Finkel).

*Climate Systems* class, Columbia University, February 13, 2020 (invited by Prof. Mingfang Ting).

*Tropical Meteorology* class, School of Meteorology, University of Oklahoma, April 23, 2019 (invited by Prof. Naoko Sakaeda).

*Environmental Science for Sustainable Development* class, Guest Lecture, School of International and Public Affairs, Columbia University, September 25, 2018, (invited by Prof. John Mutter).

*Earth Institute Practicum* class, Guest Lecture, Columbia University, September 25, 2018 (invited by Prof. Arthur Lerner-Lam).

*Extreme Weather*, Guest Lecture, *Earth Institute Practicum* class, Columbia University, October 10, 2017 (invited by Prof. Arthur Lerner-Lam).

*Discussion on hurricanes and climate change*, Guest Lecture, *Environmental Science for Sustainable Development* class, School of International and Public Affairs, Columbia University, September 26, 2017 (invited by Prof. John Mutter).

*Extreme events, hurricanes and climate change'*, Guest Lecture, *Environmental Science for Sustainable Development* class, School of International and Public Affairs, Columbia University, September 24, 2017 (invited by Prof. John Mutter).

*Extreme events, hurricanes and climate change'*, Guest Lecture, *Environmental Science for Sustainable Development* class, School of International and Public Affairs, Columbia University, October 3, 2016 (invited by Prof. John Mutter).

*New York University Girls' Science, Technology, Engineering and Mathematics Summer Program (NYU GSTEM) lecture:* "Hurricanes and Climate Change". New York University, New York, NY, August 4, 2014 (invited by Dr. Rebecca Stern).

*Lamont summer interns 2013 lecture:* "Hurricanes and Climate Change". Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, July 25, 2013 (invited by Dr. Dallas Abbott).

*Tropical cyclones and climate change*, Guest Lecture, Course: "Hurricane Sandy: Science, impacts, response", Department of Earth and Environmental Sciences, Columbia University, New York, NY, April 23, 2013 (invited by Prof. Adam Sobel).

*Global tropical cyclone climatology and variability*, Guest Lecture, Course: "Hurricane Sandy: Science, impacts, response", Department of Earth and Environmental Sciences, Columbia University, New York, NY, April 16, 2013 (invited by Prof. Adam Sobel).

*Hurricanes and Extreme Weather Events*, Guest Lecture, Course: "Public Health Impacts of Climate Change", Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY, February 16, 2012 (invited by Prof. Patrick L. Kinney).

*Hurricanes and climate change*, Earth2Class workshop for teachers, Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, February 11, 2012 (invited by Michael Passow).

*Earth Institute Fall Practicum: Lamont climate modeling and analysis research: understanding our climate at a time of change*, The Earth Institute and the School of International and Public Affairs MPA, Columbia University, New York, NY, November, 30, 2010 (organizers: Louise Rosen and Dr. Yochanan Kushnir, speakers: Drs. M. Biasutti, S. Camargo, B. Cook, R. Seager, J. Smerdon).

*Earth Institute Fall Practicum: Climate Forecasting - How science can influence policy*, The Earth Institute and the School of International and Public Affairs MPA, Columbia University, New York, NY, September, 15, 2009 (organizers: Louise Rosen and Dr. Yochanan Kushnir, speakers: Drs. M. Biasutti, S. Camargo, R. Seager, J. Smerdon, and M. Ting).

*Hurricanes and Extreme Weather Events*, Guest Lecture, Course: "Public Health Impacts of Climate Change", Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY, April 3, 2009, (invited by Dr. Perry Sheffield and Prof. Patrick L. Kinney).

*Hurricanes and Climate*, Guest Lecture, School of International and Public Affairs at Columbia University (SIPA), Master of Public Policy and Administration (MPA) in "Environmental Science and Policy", Palisades, NY, June 30, 2008 (invited by Dr. Yochanan Kushnir, LDEO).

*Hurricanes and Extreme Weather Events*, Guest Lecture, Course: "Public Health Impacts of Climate Change", Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY, March 27, 2008, (invited by Dr. Perry Sheffield and Prof. Patrick L. Kinney).

*Research on Hurricanes and Climate*, Guest Lecture, Department of Applied Physics and Applied Mathematics (APAM), Columbia University, Course: "Applied Mathematics Seminar for Undergraduate Majors", New York, NY, November 26, 2007 (invited by Prof. Chris Wiggins, APAM).

*Hurricanes and Climate*, Guest Lecture, School of International and Public Affairs at Columbia University (SIPA), Master of Public Policy and Administration (MPA) in "Environmental Science and Policy", Palisades, NY, July 9, 2007 (invited by Dr. Yochanan Kushnir, LDEO).

*Hurricanes, Typhoons, and Climate*, Guest Lecture, Course: "Weather, Climate and Environment", Department of Geography, University of Connecticut, Storrs, CT, March 27, 2007, (invited by Prof. Anji Seth).

*Hurricanes and Extreme Weather Events*, Guest Lecture, Course: "Public Health Impacts of Climate Change", Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY, February 8, 2007, (invited by Dr. Kim Knowlton and Prof. Patrick L. Kinney).

*Impacts of El Niño on hurricanes*, Guest Lecture, Courant Institute of Mathematical Sciences, New York University (NYU), November 8, 2006, New York, NY (invited by Prof. Olivier Pauluis).

*Tropical Cyclones and Climate*, Guest Lecture, School of International and Public Affairs at Columbia University (SIPA), Master of Public Policy and Administration (MPA) in "Environmental Science and Policy", Palisades, NY, July 24, 2006 (invited by Dr. Yochanan Kushnir, LDEO).

*Hurricanes, Typhoons, and Climate*, Guest Lecture, Course: "Weather, Climate and Environment", Department of Geography, University of Connecticut, Storrs, CT, April 12, 2006, (invited by Prof. Anji Seth).

*Hurricanes and Extreme Weather Events*, Guest Lecture, Course: "Public Health Impacts of Climate Change", Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY, April 6, 2006, (invited by Dr. Kim Knowlton and Prof. Patrick L. Kinney).

## Invited Talks in Conferences and Workshops

*Tenth International Workshop on Tropical Cyclones (IWTC-10)*, Bali, Indonesia, December 5 - 9, 2022.

*Climate and Weather Extremes*, Institute of Mathematical and Statistical Innovation, Chicago, IL, 3 - 7 October 2022 (remote participation).

*Tropical Cyclones, Convection and Climate: A Symposium in Honor of Kerry Emanuel*, MIT, Cambridge, MA, 21 - 22 June, 2022.

*NYC Climate Science and Projections*, New York, NY, 7 - 8 June, 2022.

*Future Risks and Impacts of Intense Mediterrean Cyclones*, Baeza, Spain, 16-18 May, 2022.

*European Geophysical Union General Assembly 2020*, Vienna, Austria, May 3-8, 2020 (remote participation).

*Reinsurance Association of America's Catastrophe Modeling Conference "Forward Looking Catastrophe Risk Management"*, Orlando, FL, February 25-27, 2020.C

*100th American Meteorological Society Annual Meeting*, Boston, MA, January 12-16, 2020 (invited talk and invited participation in panel).

*Analytics Insights Conference*, Chicago, IL, July 10-11, 2019.

*Fourth Trans Re/Alleghany 2019 Global Emerging Risk Forum*, New York, NY, May 2, 2019.

*MIT Global Change Forum - Global Change: Risks and Opportunities*, Cambridge, MA, March 27-29, 2019.

*9th International Workshop on Tropical Cyclones (IWTC-9)*, Honolulu, Hawaii, 3-7, December 2018.

*Workshop on Tropical Cyclones Seasonal Forecasting*, Barcelona, Spain, 2 November 2018.

*Urban Floods: Interdisciplinary Perspectives*, New York, NY, 12-13 April, 2018.

*2017 AGU Fall Meeting*, New Orleans, LA, 11-15 December 2017.

*6th International Summit on Hurricanes and Climate Change: From Hazard to Impact*, Heraklion, Creete, Greece, June 4-9, 2017

*Fourth Santa Fe Conference on Global & Regional Climate Change*, Santa Fe, NM, February 5-10, 2017

*Columbia University-ETH Zürich Workshop, Extreme environmental risks: Statistical modeling and insurability*, Zurich, Switzerland, 14-15 March 2016

*2015 AGU Fall Meeting*, San Francisco, CA, 14-18 December 2015

*Asia-Pacific Economic Cooperation (APEC) Climate Center Climate Symposium 2015*, keynote speaker, Manila, Philippines, 2-4 November, 2015

*Extreme Weather and Climate: Hazards, Impacts, Actions*, Initiative on Extreme Weather and Climate, Columbia University, New York, NY, May 6, 2015

*The World Weather Open Science Conference (WWOSC) 2014*, Montreal, Canada, 16-21 August 2014

*Workshop on Impacts of Extreme Climate Events on Urban Coasts*, Stevens Institute of Technology, Hoboken, NJ, 25-26 June, 2012

*Risk Prediction Initiative (RPI) Research Update 2009 Workshop*, Hamilton, Bermuda, October 8, 2009

*High resolution Climate Modeling Workshop*, Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, August 10-14, 2009

*Abrupt Climate Change in a Warming World*, Lamont Campus, Columbia University, Palisades, NY, July 8-10, 2009

*Workshop on Retrospective Simulation and Analysis of Changing SE Asian High-Resolution Typhoon Wind and Wave Statistics*, keynote presentation, Tainan, Taiwan, March 11-12, 2009

*International Workshop on Global Change Projection: Modeling, Intercomparison, and Impact Assessment* jointly with *2nd International Workshop on KAKUSHIN Program*, Yokohama, Japan, February 18-20, 2009

*2008 AGU Fall Meeting*, San Francisco, CA, 15-19 December 2008

*2006 RMS Hurricane Eyewall Symposium*, Atlantic Hurricane Hazard Science Forecasting Beyond the Horizon, New York, NY, October 12, 2006

*Global Risk Identification Programme (GRIP), Risk Sub-Program Planning Workshop*, January 4-6, 2006, Lamont Campus, Columbia University, Palisades, NY

*Forecast Forum*, Central Weather Bureau, Taipei, Taiwan, October 27, 2003

*International Workshop on Monthly-to-Seasonal Climate Prediction*, Taipei, Taiwan, October 25-26, 2003

*XII Seminar on Applied and Computational Mathematics*, Guaratinguetá, Brazil, October 1996

*Workshop on Turbulent Transport in Tokamak Plasmas*, Garching, Germany, October 1996

*School of qualitative aspects and applications of nonlinear evolution equations*, International Center for Theoretical Physics (ICTP), Trieste, Italy, October 1990

## Contributing Participation in Conferences, Workshops, Webinars

*Symposium on Hurricane Risk in a Changing Climate*, Key Largo, FL, June 5 - 9, 2022.

*AMS 35th Conference on Hurricanes and Tropical Meteorology*, New Orleans, LA, May 9-13, 2022.

*AGU Fall Meeting 2021*, New Orleans, LA, December 13-17, 2021 (remote participation).

*AMS 34th Conference on Hurricanes and Tropical Meteorology*, May 10-14, 2021 (remote participation).

*AGU Fall Meeting 2020*, December 1-17, 2020 (remote participation).

*WMO S2S Prediction Project, S2S Ocean Subproject Webinar*, June 24, 2020.

*Science Presentation, S2S NOAA Task Force telecon*, February 19, 2020.

*AGU Fall Meeting*, San Francisco, December 9-13, 2019.

*19th Cyclone Workshop*, Seeon, Germany, September 29 - October 4, 2019.

*9th Northeast Tropical Workshop*, Dedham, MA, June 2-5, 2019.

*Workshop on Correlated Extreme Events*, New York, NY, May 28-31, 2019.

*99th AMS Annual Meeting*, Phoenix, AZ, January 6-10, 2019.

*2018 AGU Fall Meeting*, Washington, DC, December 10-14, 2018.

*2nd International Conference on Subseasonal to Seasonal Prediction (S2S)*, Boulder, CO, September 17-21, 2018.

*8th GEWEX Science Conference*, Canmore, Canada, May 6-11, 2018

*33rd AMS Conference on Hurricanes and Tropical Meteorology*, Ponte Vedra, FL, April 16-20, 2018

*18th Cyclone Workshop*, Sainte Adéle, Québec, Canada, October 1-6, 2017

*8th Northeast Tropical Meteorology Workshop*, Rensselaerville, NY, 20-23 June 2017

*2016 AGU Fall Meeting*, San Francisco, CA, 12-16 December, 2016

*Workshop on Sub-Seasonal to Seasonal Predictability of Extreme Weather and Climate*, Lamont Campus, Columbia University, December 6-7, 2016

*32nd AMS Conference on Hurricanes and Tropical Meteorology* San Juan, Puerto Rico, 17-22 April, 2016

*7th Northeast Tropical Workshop*, 9-12 June, 2015, Dedham, MA

*NOAA CPO MAPP Program Webinar*, September 9, 2014

*31st AMS Conference on Hurricanes and Tropical Meteorology*, San Diego, CA, March 30 - April 4, 2014

*8th International Workshop on Tropical Cyclones, IWTC - VIII*, Jeju Island, Korea, November, 2014

*2014 AGU Fall Meeting*, San Francisco, CA, 14-18 December, 2014

*2014 U.S. CLIVAR Summit*, Denver, CO, 8-11 July 2014

*94th American Meteorological Society Annual Meeting*, Atlanta, GA, 2-6 February, 2014

*2013 AGU Fall Meeting*, San Francisco, CA, 9-13 December, 2013

*2013 U.S. CLIVAR Summit*, Annapolis, MD 9-11 July 2013

*2nd U.S. CLIVAR Hurricane Workshop*, Geophysical Fluid Dynamics Laboratory, Princeton, NJ, 5-7 June, 2013

*6th Northeast Tropical Workshop*, Rensselaerville, NY, 29-31 May 2013

*2012 AGU Fall Meeting*, San Francisco, CA, 3-7 December, 2012

*Earth Prediction Capability Demonstrations Coordinating Workshop*, Earth Systems Research Laboratory, NOAA, Boulder, CO, 13-15 November 2012

*Atlantic Sector Climate Variability over the Last Millennium and the Near-Term Future Workshop*, Lamont Campus, Columbia University, Palisades, NY, October 17, 2012

*2012 U.S. CLIVAR Summit*, Newport Beach, CA, 17-20 July 2012

*30th Conference on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, 15-20 April, 2012

*NOAA CPO MAPP Program Webinar*, April 10, 2012

*1st US CLIVAR Hurricane and Climate Working Group Workshop*, New Orleans, LA, January 27-28, 2012

*92nd AMS Annual Meeting* New Orleans, LA, 22-26 January 2012

*2011 U.S. CLIVAR Summit*, Woods Hole, MA, 19-21 July 2011

*5th Northeast Tropical Workshop*, Dedham, MA, 17-19 May 2011

*11th CLIVAR Atlantic Implementation Panel Meeting*, Miami, FL, 25-26 March 2011

*7th WMO International Workshop on Tropical Cyclones, IWTC-VII*, La Réunion, France, 15-20, November 2010

*29th AMS Tropical Meteorology and Hurricanes Conference*, Tucson, AZ, May 2010

*10th CLIVAR Atlantic Implementation Panel Meeting*, Miami, FL, 28 February - 2 March 2010

*Fourth Northeast Tropical Workshop*, Rensselaerville, NY, June 23-26, 2009

*17th AMS Conference on Atmospheric and Oceanic Fluid Dynamics*, Stowe, VT, June 8-12, 2009

*Third Workshop on High-Resolution and Cloud Modeling - Tropical Cyclones and Climate*, University of Hawaii at Manoa, Honolulu, HI, December 2 - 4, 2008

*6th Annual NCAR Early Career Scientist Assembly (ECSA) Junior Faculty Forum (JFF)*, Boulder, CO, 8-10 July, 2008

*28th AMS Tropical Meteorology and Hurricanes Conference*, Orlando, FL, 28 April - 2 May, 2008

*Third Northeast Tropical Workshop*, Dedham, MA, June 18-20, 2007

*Small Scales and Extreme Events: The Hurricane*, Institute of Pure and Applied Mathematics, University of Califonia, Los Angeles, February 12-16, 2007

*6th WMO International Workshop on Tropical Cyclones (IWTC - VI)*, San José, Costa Rica, November, 2006

*27th AMS Conference on Hurricanes and Tropical Meteorology*, Monterey, CA, 24-28 April 2006

*Tropical Cyclones and Climate Workshop*, Lamont Campus, Columbia University, Palisades, NY, 27-29 March, 2006

*30th Annual Climate Diagnostics and Prediction Workshop*, State College, PA, 24-28 October, 2005

*6th International RSM Workshop*, Lamont Campus, Columbia University, Palisades, NY, 11-15 July, 2005

*2nd Northeast Tropical Workshop*, Rensselaerville, NY, 7-9 June, 2005

*29th Annual Climate Diagnostics and Prediction Workshop*, Maddison, Wisconsin, 18-22 October, 2004

*26th AMS Conference on Hurricanes and Tropical Meteorology*, Miami, FL, 3-7 May, 2004

*28th Annual Climate Diagnostics and Prediction Workshop*, Reno, NV, 20-23 October, 2003

*1st Northeast Tropical Workshop*, Rhineback, NY, 2-3 June 2003

*25th AMS Conference on Hurricanes and Tropical Meteorology*, San Diego, CA, 29 April - 3 May, 2002

*27th Annual Climate Diagnostics and Prediction Workshop*, Fairfax, VA, 21-25 October, 2002

*26th Annual Annual Climate Diagnostics and Prediction Workshop*, San Diego, CA, 22-26 October, 2001

*Fifth Annual CCSM Workshop 2000*, Breckenridge, CO, 27-29 June, 2000

*5th Brazilian Congress on Plasma Physics*, Águas de Lindóia, Brazil, December, 1998

*VII Latin American Workshop on Plasma Physics*, Tandil, Argentina, November 1998

*1998 International Conference on Plasma Physics & 25th EPS Conference on Controlled Fusion and Plasma Physics*, Prague, Czech Republic, June-July 1998

*4th Brazilian Congress on Plasma Physics*, Águas de Lindóia, Brazil, September 1996

*21st EPS - European Conference on Controlled Fusion and Plasma Physics*, Montpellier, France, June 1994

*Ringberg Theory Meeting*, Ringberg Castle, Tegernsee, Germany, July 1992

*1st Symposium on Plasma Dynamics: Theory and Applications*, Trieste University, Trieste, Italy, June 1991

*17th EPS - European Conference on Controlled Fusion and Plasma Physics*, Amsterdam, Holland, June, 1990

*Dynamics Days*, Düsseldorf, Germany, June, 1990

*II French-Brazilian Symposium on Calculations of Electric and Magnetic Fields*, São Paulo, Brazil, 1989

*40th Meeting of the Brazilian Society for the Progress of Science*, São Paulo, Brazil, 1988

## Funding History

*Institut Pascal, France*, "TROPICANA program" workshop and residence, to be held in Paris, May/June 2024, as co-PI. Lead PI Davide Farande (IPSL, France), other co-PIs: Sebastien Fromang, Stella Bourdin, Paradeebane VaittinadaAyar (IPSL), Chia-Ying Lee.

*National Science Foundation*, "Collaborative Research: NSFGEO-NERC: Hurricane Risk Amplification and Changing North Atlantic Natural Disasters" , as Columbia PI. Lead Principal Investigator: Pier Luigi Vidale (University of Reading), US lead PI: Kevin Reed (Stony Brook University), other US PI: Colin Zarzycki (Pennsylvania State University), Columbia co-PIs: Adam Sobel, Chia-Ying Lee, Kyle Mandli.

*National Science Foundation*, "Implementation Grant: Implementing Novel Solutions for Promoting cultural change In geoscience Research and Education (INSPIRE)", as Senior Personnel. Principal Investigator: Vicky Ferrini, co-PI: Robin Bell.

*Department of Energy*, "The forced trends in the tropical Pacific and global tropical cyclones in Earth System Models", as co-Investigator. Lead Principal Investigator: Chia-Ying Lee (Columbia University), co-Investigators: Adam H. Sobel and Richard Seager, Principal Investigators: Kevin Reed (Stony Brook University), Boniface Fosu (Mississippi State University).

*National Science Foundation*, "Collaborative Research: Force Trends in the Tropical Pacific and Global Tropical Cyclones", as co-Investigator. Lead Principal Investigator: Chia-Ying Lee (Columbia University), co-Investigators: Adam H. Sobel and Richard Seager, Principal Investigators: Kevin Reed (Stony Brook University), Boniface Fosu (Mississippi State University).

*NOAA CVC 2022*, "Investigating the MJO-TC connection and its role in subseasonal US precipitation prediction", as Principal Investigator. Lead Principal Investigator: Daehyun Kim (University of Washington), Principal Investigator: Eric Maloney (Colorado State University).

*Columbia World Projects*, "Hurricane Risk Models for Vulnerable Populations", as co-PI. Principal Investigator: Adam Sobel, other co-PIs: Chia-Ying Lee, Kyle Mandli, and Michael K. Tippett.

*National Science Foundation*, "STC: Learning the Earth with Artificial Intelligence and Physics (LEAP)", as Senior Personnel. Principal Investigator: Pierre Gentine (Columbia University), co-Principal Investigators: Galen McKinley, Ryan Abernathey (Columbia University).

*NOAA MAPP 2020* "Process-oriented analysis of organized convection and synoptic disturbances in the tropics", as Principal Investigator. Lead Principal Investigator: Allison Wing (Florida State University), Principal Investigator: Daehyun Kim (University of Washington), co-Investigator: Yumin Moon (University of Washington).

*NASA MAP 2021*, "Process and performance-based assessment of tropical cyclone and associated precipitation in the NASA GEOS-S2S system for improved forecast skill, as co-Investigator. Principal Investigator: Chia-Ying Lee, other co-Investigators Michael Tippett, Daehyun Kim and Yumin Moon (University of Washington), Andrea M. Molod and Young-Kwon Lim (NASA GSFC PI).

*Columbia Data Science Institute*, to fund a Data Institute Scholar, 2020-2021.

*National Science Foundation*, "Collaborative Research: The relationship between ENSO and tropical cyclones in a hierarchy of models", Principal Investigator (Columbia University). Co-Investigator (Columbia University): Chia-Ying Lee. Lead Principal Investigator: Christina Karamperidou (University of Hawaii), other Principal Investigator: Christina Patricola (Iowa University), March 2021 - February 2024.

*SwissRe Foundation*, "Global Tropical Hazards Loss Model", co-Investigator. Principal Investigator: Adam H. Sobel. Other co-Investigators: Chia-Ying Lee, Kyle Mandli and Michael K. Tippett, February 2021 - April 2023.

*Aon*, "Quantification of climate change scenario risk using catastrophe models", co-Investigator. Principal Investigator: Adam H. Sobel. Other co-Investigators: Chia-Ying Lee and Michael K. Tippett, November 2020 - October 2023.

*Data Science Institute (DSI), Columbia University*, "Tropical cyclone genesis pathways using machine learning" funding for a DSI Scholar, Fall 2020.

SwissRe: "A climate change signal in hurricanes today", co-Investigator. Principal Investigator: Adam H. Sobel. Other co-Investigators: Chia-Ying Lee and Michael K. Tippett.

Volkswagen Foundation: "Europe and global challenges, impact of intensified weather extremes on Europe's economy": Sub-contract for Columbia University: as collaborator, Adam H. Sobel (co-Investigator). Grant Principal Investigator: Anders Levermann (Potsdam Institute for Climate Impact Research - PIK, Germany), other co-Investigators: L. Wenz (PIK, Germany), M. Auffhamer (University of California at Berkeley), M. Lenzen (University of Sydney, Australia).

NOAA MAPP 2018: Collaborative Research: "Process-oriented diagnosis of tropical cyclone genesis and intensification in high-resolution global models", Principal Investigator (Columbia University). Collaborators from other institutions: Daehyun Kim (University of Washington), Allison Wing (Florida State University).

NASA MAP 2016: "Tropical Cyclones in the GISS model at high resolution", co-Investigator. Principal Investigator: Adam H. Sobel. Other Co-Investigators: Anthony Del Genio, Maxwell Kelley.

NYSERDA 2016: "Open-source cyclone risk mdoeling for New York State", co-Investigator. Principal Investigator: Chia-Ying Lee. Other co-investigators: Michael K. Tippett and Adam H. Sobel.

Columbia University President's Global Innovation Fund 2016: "Storm surge risk to Mumbai: a challenge to urban sustainability in India's largest city", co-Investigator. Principal Investigator: Adam H. Sobel. Other co-Investigators: Kyle Mandli, Michael K. Tippett, Chia-Ying Lee.

NOAA MAPP FY16: "The relationship of tropical cyclones to MJO and ENSO in the S2S database", as Principal Investigator. Co-Investigators: A.H. Sobel and C.-Y. Lee, international collaborator: F. Vitart.

NOAA MAPP FY15: "Process oriented diagnostics of tropical cyclones in climate models", as Principal Investigator. Co-Investigators: A.H. Sobel, D. Kim, and A. Del Genio.

Alliance Program Joint Innovative Research Grant. "Transitioning Atlantic hurricanes in a changing climate: future extreme weather risk for the eastern U.S. and western Europe", as co-investigator. Principal Investigator: Adam Sobel (Columbia University), other co-investigator: Jean Phillipe Duvel (Ecole Normale Supériore, Paris, France).

AXA Award Research Project: Principal Investigator: Adam Sobel (Columbia University), Co-Investigators: M. Biasutti, S. Camargo, M. Tippett and S. Wang.

NASA MAP 2012: "Intraseasonal variability and tropical cyclones in the NASA GISS General Circulation Model: Phase 2", as co-investigator. Principal Investigator: Adam Sobel (Columbia University); other co-investigator: Daehyun Kim (LDEO), collaborator: Anthony Del Genio (NASA GISS).

Research Initiatives in Science and Engineering 2011-2012, Columbia University: "Towards long-range prediction of tornado activity", as co-Investigator. Principal Investigator: Michael K. Tippett, IRI, Columbia University; other co-investigator: Adam H. Sobel, Columbia University.

Lamont Climate Center 2011: "Mini-conference: Severe convection and climate", as Principal Investigator, co-investigators: M. Tippett (IRI), A. Sobel (Columbia), funded November 2011, $7,767.

ONR FY2012 MURI: "Extended-range prediction with low-dimensional, stochastic-dynamics models: A data driven approach", as co-Investigator. Lead Columbia University PI: Michael K. Tippett, lead UCLA PI: Michael Ghil, co-Investigators: M.D. Chekroun and D. Kondrashov (UCLA), S. Camargo, M. Cane, D. Chen, A. Kaplan, Y. Kushnir, N. Naik, A. Robertson, M. Ting, and X. Yuan (Columbia University).

NSF GEO/ATM - Climate and Large Scale Dynamics: "Tropical Cyclones and Climate - A Model Intercomparison Project", as Principal Investigator, co-Investigators: Adam Sobel, Daehyun Kim, collaborators: Gabriel Vecchi and Kevin Walsh, funded, period 01/01/12-31/12/14.

NOAA Climate Program Office FY11, MAPP: "Tropical cyclone tracks in present and future climates", as Principal Investigator, co-Investigators: Adam Sobel, Timothy Hall, Kerry Emanuel and James Kossin, funded, period 09/01/11-08/31/14.

NSF GEO/ATM - Climate and Large Scale Dynamics: "Collaborative research: Tropical cyclones in a warming climate: Lessons from model simulations of the Last Glacial Maximum and Holocene", as co-Investigator. Principal Investigator: Robert Korty, Texas A&M, other co-Investigator: Joseph Galewsky, University of New Mexico, funded, period 04/15/11-03/31/14.

NOAA Climate Program Office FY10, Climate Change Data and Detection Program: "Understanding and attributting tropical cyclone intensity and frequency changes in the 20th and 21st centuries", as co-Investigator. Principal investigator: Mingfang Ting, other co-Investigator: James P. Kossin (NOAA).

Australian Research Council (ARC) Research Network for Earth System Sciences: "Tropical cyclone climate model intercomparison data archive", as collaborator. Principal investigator: Kevin Walsh (University of Melbourne).

NOAA Climate Program Office FY09, Climate Variability and Predictability Program: "Mechanisms and predictability of the global climate impacts of Atlantic multidecadal variability", as co-Investigator. Principal investigator: Mingfang Ting (LDEO), other co-investigors: Yochanan Kushnir (LDEO), and Richard Seager (LDEO), 08/09 - 07/12.

NCAR Travel support to participate in the "6th Annual NCAR Early Career Scientist Assembly (ECSA) Junior Faculty Forum (JFF)", in Boulder, CO, 8-10 July 2008.

NASA Research Opportunities in Space and Earth Sciences (ROSES) 2008, Modeling, Analysis and Prediction Program: "Intraseasonal variability and tropical cyclones in the NASA GISS general circulation model", as co-Investigator. Principal investigator: Adam Sobel (Columbia University); collaborators: Anthony Del Genio (NASA GISS), Ron Miller (NASA GISS), Kevin Walsh (University of Melbourne).

NOAA Climate Program Office FY08, Climate change data and detection program, Climate change data detection and attribution studies: "Towards a better understanding of the relationship between climate change and tropical cyclones", as Principal investigator. Co-investigators: Adam Sobel (Columbia University), Kerry Emanuel (MIT), Lorenzo Polvani (Columbia University); funded, 07/2008-06/2011.

The Earth Institute at Columbia University Cross-cutting initiative: "Assessing risk of landslides from increased hurricane activity in the Caribbean: A model linking physical, biological and human processes", as co-investigator, Principal investigator: Maria Uriarte (Columbia University), other co-investigator: Arthur Lerner-Lam (LDEO - Columbia University).

Travel support from University of California, Los Angeles, to participate at the workshop: "Small Scales and Extreme Events: The Hurricane", Institute for Pure and Applied Mathematics, UCLA, Feb. 12-16, 2007.

NSF Climate and Large-Scale Dynamics, Workshop Support for young investigators: "Tropical Cyclones and Climate Workshop" , Lamont Campus of Columbia University in Palisades, NY, on March 27-29, 2006; US$ 10,000.00, as Principal Investigator. Co-investigator: Adam Sobel (Columbia University).

ADVANCE at the Earth Institute at Columbia University, Research Workshop Support: "Tropical Cyclones and Climate Workshop" Lamont Campus of Columbia University in Palisades, NY, on March 27-29, 2006; US$ 19,848.00, as Principal Investigator. Co-investigator (mentor): Kerry Emanuel (MIT).

NOAA Climate and Global Change Proposal, CLIVAR/Pan American Program, FY2004-FY2007:"Assessing GCM Performance in Simulation of Rainy Season Onset and Demise for Tropical South America", as co-investigator, Principal Investigator: Brant Liebmann (NOAA/CIRES Climate Diagnostic Center, Boulder, CO), other co-investigators: Anji Seth (University of Connecticut), Rong Fu (Georgia Tech. Univ.) José Marengo (CPTEC, Brazil).

NOAA Climate and Global Change Proposal, CLIVAR/Pan American Program, FY2002-FY2004: "The predictability of onset and character of warm season rains in tropical South America using a Nested Modeling System", as co-investigator, Principal Investigator: Anji Seth (University of Connecticut, Storrs, CT), other co-investigators: Cintia B. Uvo (Lund University, Sweden), Brant Liebmann (NOAA CIRES Climate Diagnostic Center, Boulder, CO).

Foundation for the Development of the São Paulo State University - Unesp (Fundunesp), Research Grant 420/98-DFP, Program: "International Conference Support", to participate in the *Advanced School on Plasma Physics and VII Latin American Workshop on Plasma Physics*, Tandil, Argentina, November 1998, Principal Investigator.

São Paulo Research Foundation (FAPESP), Research Grant # 98/0561-8, Research support program "Calculation of auto-consistent equilibrium in an tokamak", as co-investigator, Principal Investigator: M. Célia R. Andrade (INPE - National Institute for Spacial Research, São José dos Campos, Brazil), other co-investigator: Gerson O. Ludwig (INPE, Brazil), August 1998 to July 1999.

São Paulo Research Foundation (FAPESP), Research Grant # 98/1420-1, Program: "International Conference Support", to participate in the *25th EPS Conference on Controlled Fusion and Plasma Physics*, Prague, Czech Republic, and

the *Edge-Plasma Simulation Course*, Innsbruck, Austria; and visit the *Max Planck Institute for Plasma Physics*, Garching, Germany, June - July 1998, Principal Investigator.

Brazilian Innovation Agency for Financing Research and Project (FINEP), Project to Support Excellence Centers (Pronex) 050/97, "Centers of Research in Plasma Physics", as Co-investigator, Principal Investigator: Ricardo M.O. Galvão, December 1997 to November 2001.

São Paulo Research Foundation (FAPESP), Research Grant # 96/0532-5, Research support program, as Co-investigator, Principal Investigator: Iberê L. Caldas (São Paulo University (USP), São Paulo, Brazil), March 1996 to May 1997.

German Academic Exchange Service (DAAD), *Conference Support Program* to participate in the *28th Plasma Physics Summer School*, Culham Laboratory, Abingdon, England, July 1991.

International Center for Theoretical Physics (ICTP) *Conference Support Program* to participate in the *School of Qualitative Aspects and Applications of Nonlinear Evolution Equations*, ICTP, Trieste, Italy, September-October 1990.

Student Support Program from the European Conference on Plasma Physics and Controlled Fusion (EPS) to participate in the *17th EPS* Amsterdam, Holland, July 1990.

German Academic Exchange Service (DAAD), *Conference Support Program* to participate in the Workshop *Dynamic Days*, Düsseldorf, Germany, June 1990.

Coordination for Improvement of Personnel of Graduate and Post-Graduate Level (CAPES), travel support (Brazil - Germany), Proc. 1070/88, July 1989.

## Workshops, Conferences and Sessions Organized

Co-Chair, *37th Conference on Climate Variability and Change, 104th American Meteorological Society Annual Meeting*, to be held in Baltimore, MD, 28 January - 1 February, 2024.

Co-Chair, *6th Special Symposium on Tropical Meteorology and Tropical Cyclones, 104th American Meteorological Society Annual Meeting*, to be held in Baltimore, MD, 28 January - 1 February, 2024.

Program Committee, *35th American Meteorological Society Hurricanes and Tropical Meteorology Conference*, co-chair *Climate Change in the Tropics*, New Orleans, LA, 9-13 May 2022.

Organizing Committee, *At what point managed retreat? Resilience, Relocation, and Climate Justice*, Columbia University, New York, NY, 22-25 June 2021 (virtual).

Co-Convener, *Sessions: Centennial Overview: Prediction of Extreme Weather Events and Their Impacts as an Interdisciplinary Problem* NH13B (posters), NH54A (oral), AGU Fall 2019, San Francisco, CA, 9-13 December, 2019.

Organizing Committee, *Workshop on Correlated Extremes*, Columbia University, Extremes Initiatiave, New York, NY, 29-31 May 2019.

Organizing Committee, *2017 Conference on Fire Prediction Across Scales*, Columbia University Extremes Initiative, New York, NY, October 2017.

Organizing Committee, *Workshop on Atlantic Climate Variability - Dynamics Prediction and Hurricane Risk* , Columbia University Extremes Initiative, New York, NY, September 2017.

Organizing Committee, *Tropical Cyclone Hazard Intercomparison Workshop*, New York, NY, September 2017.

Organizing Committee, *Cyclones and Storm Surges: Building a Framework for Evaluating the Climate Risk to Mumbai*, Columbia Global Centers, Mumbai, India, January 12, 2017.

Organizing Committee, *Workshop on sub-seasonal to seasonal predictability of extreme weather and climate*, Columbia University Initiative on Extreme Weather and Climate, Lamont Campus, Palisades, NY, December 6-7, 2016.

Organizing Committee, *Tropical Cyclone Modeling Workshop*, Columbia University Initiative on Extreme Weather and Climate, New York, NY, May, 2016.

Organizing Committee, *First Science Workshop, Extreme Weather and Climate: Hazards, Impacs, Actions*, Columbia University Initiative on Extreme Weather and Climate, New York, NY, May 6, 2015.

International Organizing Committee, *International Workshop on Tropical Cyclones, IWTC - VIII*, World Meteorological Organization, World Meteorological Program, Jeju Island, Korea, December, 2014.

Program Committee, *31st Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, 30 March - 4 April 2014, San Diego, CA.

Co-organizer, *2nd US CLIVAR Hurricanes and climate working Group workshop*, 5-7 June 2013, Princeton, NJ; co-organizers: Kevin Walsh and Gabriel Vecchi.

Organizing Committee, *Severe Convection and Climate Workshop*, Columbia University, Lamont Campus, Palisades, NY, March 14-15, 2013; co-organizers: Michael K. Tippett and Adam H. Sobel.

Co-organizer, *1st US CLIVAR Hurricanes and climate working Group workshop*, 27-28 January 2012, New Orleans, LA; co-organizers: Kevin Walsh and Gabriel Vecchi.

Convener and organizer, *Tropical Cyclones and Climate Workshop*, March 2006, Palisades NY; co-organizer Adam Sobel, Tellus A special issue with contributions to the workshop (2007).

**Service - Columbia University**

Chair, *LDEO Promotion and Careers Committee*, Lamont-Doherty Earth Observatory, May 2022 - present.

Co-chair, *Climate Education Sub-committee*, Department of Earth and Environmental Sciences (DEES), November 2019 - present.

Member, *Adjunct Search Committee*, Department of Earth and Environmental Sciences (DEES), February 2023 - present.

Member. *Academic Planning Fall 2022: Climate Analytics Group*, Columbia Climate School, October 2022 - January 2023.

Member, *Post-doctoral research scientist* search committee, LDEO, October 2022 - present.

Member, *Sub-Committee on Climate School Governance*, Lamont-Doherty Earth Observatory, February - November 2022.

Member, *Executive Committee, Sustainability Science program*, School of Professional Studies, 2020 - 2022.

Member, *Curriculum Committee, Sustainability Science program*, School of Professional Studies, 2020 - 2022.

Member, *Post-doctoral research scientist* search committee, APAM, May - June 2022.

Member, *Research associate* search committee, APAM, May - June 2022.

Deputy Chair, *LDEO Promotion and Careers Committee*, Lamont-Doherty Earth Observatory, November 2019 - May 2022.

Co-chair, *Disaster Resilience Implementation Team*, Lamont Science Implementation Plan, February - April 2022.

Member, *Climate Center Committee*, Lamont-Doherty Earth Observatory, May 2019 - December 2021.

Member, *Post-doctoral research scientist* search committee, Lamont-Doherty Earth Observatory, August - December, 2021.

Advocate, *Ad-hoc Committee to review appointment to LDEO senior staff*, Lamont-Doherty Earth Observatory, May 2021.

Chair, *Co-director Search Committee, Sustainability Science program*, School of Professional Studies, April - June 2021.

Member, *Post-doctoral research scientist* search committee, Lamont-Doherty Earth Observatory, March - May 2021.

Member, *Center for Climate and Life* Advisory Board, Lamont-Doherty Earth Observatory, 2020.

Member, *Post-doctoral research scientist* search committee, Lamont-Doherty Earth Observatory, June - November, 2020.

Member, *Lamont Vision Committee*, Lamont-Doherty Earth Observatory, February - November 2020.

Member, *Lamont Research Professor* search committee, Lamont-Doherty Earth Observatory, February - July 2020.

Member, *Diversity Committee*, Department of Earth and Environmental Sciences (DEES), January - September 2020.

Member, *Earth Institute Post-doctoral fellows* committee, 2017 - 2019.

Member, *Earth Institute Promotion committee, CIESIN scientist*, July - December 2019.

Member, *Administrative Assistant OCP Search Committee*, Lamont-Doherty Earth Observatory, May-June 2019.

Chair, *Lamont Assistant Research Professor Search Committee*, Lamont-Doherty Earth Observatory, September - December 2018.

Member, *Earth Institute Communications Task Force*, 2018 - 2019.

Member, *Earth Institute Faculty Development and Diversity Committee*, 2018 - 2019.

Member, *Mentoring Award* committee, Lamont-Doherty Earth Observatory, 2017 - 2019.

Member, *Earth Institute Staff Award* committee, 2017.

Member, *Post-doctoral Hiring Committee*, NASA grant, Lamont-Doherty Earth Observatory, Lamont-Doherty Earth Observatory, 2017.

Member, *Columbia University NSF PIRE* internal proposal committee, August 2016.

Member, *Lamont Professional Leave of Absence* committee, Lamont-Doherty Earth Observatory, Lamont-Doherty Earth Observatory, 2016 - 2017.

Chair, *Lamont Research Professor Search Subcomittee*, Lamont-Doherty Earth Observatory, January - June 2016.

Member, *Post-doctoral hiring committee*, ONR grant, Columbia University, Lamont Campus, 2014.

Member, *Post-doctoral hiring committee*, ONR grant, Columbia University, Lamont Campus, 2013.

Member *Lamont Post-doctoral Fellowship Committee*, Lamont-Doherty Earth Observatory, October 2010 - February 2013.

Member *Post-Doctoral hiring committee*, Arlene Fiore's group, Lamont-Doherty Earth Observatory, October 2011 - February 2012.

Co-organizer, *Lamont Colloquium Series 2010-2011*, Lamont-Doherty Earth Observatory, with Angela Slagle.

Participation in the *2009 University Corporation for Atmospheric Research Annual Members' Meeting*, 13-14 October, 2009, Boulder, Colorado, as Columbia University substitute representant for Lorenzo Polvani.

*Member of Ad-hoc Committee*, NASA GISS Associate Research Scientist to Research Scientist. Committee chair: Timothy Hall (NASA GISS), 2010.

## Outreach

Interview, MSNBC weekend show hosted by Alicia Menendez, 02 October 2022.

Interview, AFP News Agency, October 2022.

Interview, New York Times, 27 September 2022.

Interview, Eos, American Geophysical Union, Alakananda Dasgupta, 17 August 2022.

Interview, CNN, June 2022.

Interview, State of the Planet, Columbia Climate School, June 2022.

Comments on a paper, Carbon Brief, April 2022.

Comments on a paper, The Guardian, April 2022.

Interview, Buzzfeed, December 2021.

Interview, Miami Herald, December 2021.

Interview for "Too Hot to Handle", science/art project led by Lamont post-doctoral researcher Alexandra Boghosian, November 2021.

Interview, Washington Post, September 2021.

Interview, Polifact, September 2021.

Interview, Agence France-Presse (AFP), September 2021.

Interview, BBC, Science in Action, September 2021.

Interview, New York Times, August 2021.

Interview, The Hill, August 2021.

Interview, New York Times, August 2021.

Interview, North Jersey, USA Today, August 2021.

Interview, interview for LDEO Blog, Summer Forecast: Dangerous Heat, Fire, and an Active Hurricane Season, June 2021.

Interview, "The Sweaty Penguin Podcast", Episode 52, Tropical Cyclones, June 2021.

Interview, blog "Scientist on the Subway" or "SciSub", June 2021, appeared in August 2021.

Interview Danish Magazine, June 2021.

Interview, Episode 8, Deep Convection Podcast, May 2021 (interview conducted in October 2020).

Interview, New York Times, May 2021.

Interview, NOAA Program Office, March 2021

Interview Minnesota Public Radio, Climate Cast, March 2021.

Climate Reality NYC Panel, November 2020.

Interview Washington Post, November 2020.

Interview BuzzFeed News, November 2020.

Interview Inside Climate News, November 2020.

Interview Washington Post, November 2020.

Interview New York Times, November 2020.

Interview CBS2 News, November 2020.

Career discussion, *Massachusetts Institute of Technology*, October 2020 (virtual).

Email interview, PolitiFact, October 2020.

Interview, New York Times, October 2020.

Interview, BBC Future, September and October 2020.

Interview, Washington Post, August 2020.

Email interview, Bloomberg News, August 2020.

Email interview, New York Times, August 2020.

Phone Interview, National Geographic, August 2020.

Interview, Gizmodo, July 2020.

Interview, Climate Life and Lamont blogs, July 2020.

Interview, Earth Institute Blog, Rice University, Fox News, Houston Chronicle, July 2020.

Earth Institute, Compound Risk Webinar, June 29, 2020.

Interview, Lamont blog, June 2020.

Interview, Quartz Media, May 2020.

Interview, Popular Science, May 2020.

Interview, Washington Post, May 2020.

Interview, AZO Cleantech Prevention Web, April 2020. Also at PreventionWeb.

Interview "Politico" about Hurricane and Climate Change, September 2019,

Interview PBS-NOVA, September 2019.

Interview "Nexus media", August 2019.

The Rye City Review, 19 July 2019 (about talk in Rye).

Interview for Florida Sun-Sentinel, June 2019.

Interview for "Science, Health and Wellness Podcast" , by Rye High-School student David Lewis, June 2019.

Interview for Palm Beach Post, May 2019.

Interview for New York Times, May 2019.

Interview for Earth Institute blog and NOAA MAPP press release about publication of Scientific Reports paper, May 2019.

Input NOAA MAPP press release, May 2019.

Interview, Earth Institute blog about release of PNAS paper, April 2019.

Interview, Business Insider, November 20, 2018.

Interview, Tumble, Science podcast for kids, November 2, 2018. Podcast released, May 2019.

Interview, CUNY journalism student, October 24, 2018.

Interview, Swedish daily newspaper: Göteborgs-Posten, October 18, 2018.

Interview, FiveThirtyEight, October 11, 2018.

Interview, New York Times, October 10, 2018.

Interview, Earth Institute Blog, September 12, 2018.

Interview, Wall Street Journal, September 12, 2018.

Interview, Washington Post, July 25, 2018.

Interview, Gris Magazine, June, 19, 2018, .

Interview, The Verge, May 24, 2018.

Interview, Earth Institute State of the Planet Blog, January 2018 and NOAA MAPP .

Interview, New Scientist Magazine, November 2017.

Interview, Vox, October, 2017.

Interview, Earth Institute State of the Planet Blog, September, 2017.

Interview, National Geographic on the the Montreal Protocol anniversary, September 2017.

TV interview, Globo News, Brazil, September 2017.

Interview, Polifact, September 2017.

Interview, The Verge, September 2017:

Interview Scientific American, September 2017.

Interview CNN, September 2017.

Interview, vice.com, September 2017.

Interview, Liberation, France, September 2017.

Contribution to the WMO Hurricane Expert Statement on Hurricane Harvey, September 2017.

Input on the hurricane season to the AGU Board and AGU Council through Robin Bell (with Adam Sobel), September 2017.

Interview, Earth Institute Blog, September 2017.

Interview, Thomson Reuters, September 2017.

Interview, Mic.com, August 2017.

Interview, Popular Science, August 2017.

Interview, Earth Institute State of the Planet Blog, August 2017.

Interview, Barclays Bank leadership series article, January 2017.

Interview, New York Times, January 2017.

Interviews about Hurricane Matthew: Forbes, Reuters, ClimateWire, Climate News, Vice Media, Diario El Mercurio (Chile), Tampa Bay Times, Live Science, Climate Central, October 2016.

Interview for Climate Central, September 2016.

Interview for Climate Central on Cyclone Chapala, November 2015.

Interview for Daily Beast on El Niño and Hurricanes, October 2015.

Interview for Climate Central on GFDL paper on Hawaii hurricanes , August 2015.

Interview for Climate Central on tropical cyclone season changes , May 2015.

Interview of Columbia Master of Science Journalism Student Tommy Hawkins on Typhoon Haynan and Tropical Cyclones and Climate , November 2013.

Interview for "WNYU" on effects of climate change on the New York coastline, May 2013.

Phone interview for UN online humanitary news service , October 2009.

Interview for Austrian Broadcasting Corporation - Radio and Television, June 2009.

Interview for Austrian Broadcasting Corporation - Radio and Television, September 2008.

Interview for Brazilian television: TV Globo, July 2007.

Interview for Sierra Club Newsletter, September 2006.

Interview for Brazilian television: Bandeirantes, March 2006.

Interview for Columbia Magazine, March 2006.

Profile for promotional "card deck" for a Worth/Freeman calculus texbook, November 2005 by Nancy Brandwein.

Interview for Columbia Science Journalism student, September 2005, College du Page student, October 2005, Earth Institute Newsletter Portraits, December 2005.

TV interview for the Weather Channel, August 2005.

Phone interviews for the Boston Globe, August 2005, Journal News , August and October 2005, National Geographic Magazine, December 2005, American Museum of Natural History, September 2005, Rochester Democrat and Chronicle, August and October 2005.

Discussion with High School Students about Science career at the 92nd Street Young Men's and Young Women's Hebrew Association, New York, NY, March 2003.