# Katia Lamer Atmospheric Scientist & Director of Operations of the Center for Multiscale Applied Sensing

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#### **PROFESSIONAL PREPARATION**

Postdocte	oral positions		Advisor	Years
Brookhaven National Laboratory			A. Vogelmann	2019 - 21
City Uni	versity of New York (CCNY)	J. Booth	2019	
Degrees				
PhD	Meteorology and Atmospheric Science	PennState	E. Clothiaux	2015 - 19
MS	Atmospheric and Oceanic Sciences	McGill University	P. Kollias	2013 - 14
BS	Earth System Science	McGill University		2010 - 13

### **PROFESSIONAL EXPERIENCE**

Brookhaven National Laborator	y, Upton, New York, U.S.	Supervisor	Years
Assistant Scientist	Environmental and Climate Science	M. Jensen	2021-present
Research Associate	Environmental and Climate Science	A. Vogelmann	2019-21
City University of New York, Cit	ty College, New York, U.S.		
Post-Doctoral Researcher	Earth and Atmospheric Sciences	J. Booth	2019
The Pennsylvania State Universi	ty, University Park, Pennsylvania, U.S.		
Graduate Assistant	Meteorology and Atmospheric Science	E. Clothiaux	2015-19
McGill University, Montreal, Qu	ebec, Canada		
Research Assistant	Atmospheric and Oceanic Sciences	P. Kollias	2015
Undergrad. Research Assistant	Atmospheric and Oceanic Sciences	P. Kollias	2014
Undergrad. Research Assistant	Atmospheric and Oceanic Sciences	P. Kollias	2013
Undergrad. Research Assistant	Atmospheric and Oceanic Sciences	P. Kollias	2012
Undergrad. Research Assistant	Geology	A. Mucci	2011
Tim Hortons Coffee Shop, St-Hy	yacinthe, Quebec, Canada		
Shift Supervisor		N. Beauregard	2009-10
Waitress Supervisor		N. Beauregard	2007-09
Camp de jour de Saint-Dominiq	ue, Saint-Dominique, Quebec, Canada		
Day Camp Leader	-	J. Bachand	2007
Positions, Committees & Se	RVICE		
Current positions			
• Director of Operations, BNL Co	enter for Multiscale Applied Sensing,		2022-present
• Member. American Geophysical	Union.		2014-present
• Member, Sigma Xi - The Scienti	fic Research Honor Society		2013-present
	ne nescaren i ionor society		2015 present

Previous positions	
• Lead, Renewable Energies & Research and Development subgroup at BNL,	2021-2023
• Member, Advisory Cohort for the ASR Warm Boundary Layer Process Working Group,	2019-2020
• Breakout Session Co-Convener	
- "Advancing the Use of ARM Observations for Large-Scale Earth System Model Development".	
ARM/ASR Joint PI Meeting, Rockville, MD,	06/2019
- "End-to-end Forward Simulators". ARM/ASR Joint PI Meeting, Tysons, VA,	03/2018
Outreach	
- 4 demonstrations of the CMAS mobile observatory, PennState University, State College, PA	11/2022
<ul> <li>Visit, Stony Brook Meteorology Club, Stony Brook, NY</li> </ul>	10/2022
- Visit, Mount Elementary School. Stony Brook, NY,	05/2022
- Participant, Brookhaven National Laboratory Earth Day Event. Jones Beach, NY,	04/2022
- Volunteer, ARM booth. AGU Fall Meeting, New Orleans, LA,	12/2017
- Creator, Educational Youtube video "My summer dispatch: cloud research in the Azores"	08/2017
- Volunteer, ARM booth. AGU Meeting, San Francisco, CA,	12/2016
Field Work	
- Participant, NSF ESCAPE field experiments, Houston, TX, USA	06/2022
- Participant, DHS S&T air sampling field experiment, New York City, NY, USA	10/2021
- Participant in the ACE-ENA field campaign, Graciosa Island, Azores, Portugal	07/2017
Community Data Products	
- PI for PRECIPMICROPHYS-KAZRLIDAR PI product	
<ul> <li>Contributor to SACRCORR</li> </ul>	
<ul> <li>Contributor to SACRADV3D3C</li> </ul>	
GRANTS AND SCIENCE TEAMS	
Institutional PI, Southwest Urban Corridor Integrated Field Laboratory	
BNL award: \$4.75M; Lead PI: D. Sailor; Period: 2022-2027; Funder: DoE Office of Science	
Co-PI, <b>CMAS/Lidar</b>	
BNL award: \$374,600; Lead PI: A. McComiskey; Period: 2022-2023; Funder: BNL Program Develop	oment
Institutional PI, Mesoscale Organization in Cumulus-Coupled Marine Stratocumulus	
BNL award: unfunded collaborator; Lead PI M. Miller; Period: 2022-2024; Funder: DoE Atmospher	ic Systems
Research Program	
Co-PI, BNL Support to NYPD for Installation and Operation of Meteorological Stations to Mea	sure Wind
Speed and Direction in Mid- and Lower-Manhattan	
BNL award: \$1/1,200; Lead PI J. Heiser; Period: 2021-2022; Funder: Department of Homeland Secu	irity Science
and Lechnology Division (DHS 5&1)	Nation -1
Socurity	INATIONAL
BNI award: \$580,000; DI: A. Vogelmann: Period: 2010 2022; Funder: BNI I DRD	
Co-L BNL Support of the DHS-UTD Project	

BNL award: \$550,000; PI: J. Heiser; Period: 2022; Funder: DHS S&T

Co-I, A Community Laboratory Facility for Exploring and Sensing of Aerosol-Cloud-Drizzle Processes: The Aerosol-Cloud-Drizzle Convection Chamber

BNL award: \$969,400; PIs: A. McComiskey [DOE] and R. Shaw [NSF]; Period: 2021-2023; Funder: DOE Atmospheric System Research (and the National Science Foundation)

# Co-I, A Next Generation High-resolution Lidar for Laboratory and Environmental Experimentation in **Atmospheric Science**

BNL award: \$677,156; PI: A. McComiskey; Period: 2020-2022; Funder: BNL Program Development Co-I, Quantum techniques for advanced atmospheric lidar

BNL award: \$1,500,000; PI: Thomas Tsang; Period: 2022-2023; Funder: BNL Laboratory Directed Research And Development

Co-I, Establishing an Energy Environment Measurement Technologies Group BNL award: \$225,000; PI: A. McComiskey; Period: 2022; Funder: BNL Program Development

Co-PI, Advanced Solar and Load Forecasting Incorporating HD Sky Imaging: Phase III BNL award: \$250,000; PI: J. Heiser; Period: 2019-2022; Funder: Electric Power Research Institute and DOE Solar Energy Technologies Office

Co-I, Process-level AdvancementS of Climate through Cloud and Aerosol Lifecycle Studies (PASCCALS) BNL award: \$5,103,000; PI: M. Jensen; Science Focus Area grant continuing since 2019; Funder: DOE Atmospheric System Research Program

# **AWARDS & DISTINCTIONS**

_	Spotlight Award in recognition of exceptional job performance	06/2021
_	Spotlight Award in recognition of exceptional job performance	12/2020
_	Canada Steamship Lines Award, McGill University	08/2013
_	Research Scholarship for the M.S. degree, Fonds de Recherche Nature et Technologies	04/2013
_	Student Undergraduate Research Award, Atmospheric and Oceanic Sc., McGill University	04/2013
_	Undergraduate Research Conference, 2nd Recipient, Earth Science, McGill University	10/2012
_	Salme Nommik Bursary, McGill University	10/2011
_	Student Undergraduate Research Award, Earth Planetary Science, McGill University	06/2011
-	Tim Hortons Education Scholarship, McGill University	10/2010

# PRESS RELEASES AND MEDIA

_	Science Story in WIRED.	"This Laser-Firing	g Truck Could	Help Make	e Hot C	ities More Li	ivable"	stor	y and quote	s
	prepared by Matt Simon								08/09/202	22

- Science Story in TBR Newsmedia. "BNL's Katia Lamer studies urban heat in Houston and New York" story and quotes prepared by Daniel Dunaief
   08/05/2022
- Feature Story on the Brookhaven National Laboratory web page. "Mapping Urban Heat From the Ground Up" story and quotes prepared by S. Kossman 07/19/2022
- Science story in Grid News. "Summer thunderstorms are getting more violent. Is something supercharging them?" by Dave Levitan 07/11/2022
- Feature on the Brookhaven National Laboratory web page. "Top-10 Areas of Amazing Science at Brookhaven Lab in 2021" by Karen McNulty Walsh and Stephanie Kossman
   12/29/2021
- Science story in Inside Climate News. "Is This Street Now Cooler Than It Was?" story and quotes prepared by Katelyn Weisbrod
   10/16/2021
- Feature Story on the Brookhaven National Laboratory web page. "Mobile Observatory Surveys Manhattan Atmosphere" story and quotes prepared by S. Kossman
   09/24/2020
- Research Highlight in the 2020 ARM Annual Review. "Look to the Clouds to Represent Rain in Large-scale Model" highlight and quote prepared by A. E. Hunzinger. 10/2020

# **PRESENTATIONS TO HIGH-LEVEL OFFICIALS**

1.	Spokesperson for the CMAS mobile observatory during senate Appropriations staffer Aaron Goldner's		
	visit to Brookhaven Lab	10/05/2023	
2.	Spokesperson for the CMAS mobile observatory during DOE Deputy Secretary David Turk's		
	visit to Brookhaven Lab	10/13/2023	
3.	Spokesperson for the CMAS mobile observatory during DOE Under Secretary for Science and Inno	vation	
	Dr. Richmond's visit to Brookhaven Lab	10/26/2023	
4.	Presentation to Brookhaven Lab's Science Council on the Center for Multiscale Applied Sensing (CM	AAS)	
	mobile observatory capability	11/08/2023	
5.	Spokesperson for the CMAS mobile observatory during DOE Director for the Office of Science		
	Dr. Berhe and Dr. Chan's visit to Brookhaven Lab.	02/27/2023	

# PEER REVIEWED PUBLICATIONS

#### Publications: 25, Citations: 431, h-index: 12

- 1. Lamer, K. and coauthors (2022). Going mobile to address emerging climate equity needs in the heterogeneous urban environment. *BAMS*, *103(9)*, E2069-E2080
- 2. Jonghoon, G, and **coauthors**. Distinct dynamical and structural properties of marine stratocumulus and shallow cumulus clouds in the Eastern North Atlantic. *JGR*, *e2022JD037021*
- 3. Lamer, K. and coauthors (2022). The impact of heat and inflow wind variations on vertical transport around a supertall building The One Vanderbilt field experiment. *STOTEN*, *851*, 157834.
- Kollias, P. and coauthors (2022). Mind-the-gap Part III Doppler velocity measurements from space. Frontiers, 26
- 5. Kirshbaum D. and **K. Lamer** (2021). Climatological Sensitivities of Shallow-Cumulus Bulk Entrainment in Continental and Oceanic Locations. *Journal of Atmos. Science.* 78(8), 2429–2443
- 6. Wang J. and **coauthors** (2021) Aerosol and Cloud Experiments in Eastern North Atlantic (ACE-ENA). *Bulletin* of the American Meteorological Society, 1-51.
- 7. Lamer, K. and coauthors (2021) Multi-frequency Radar Observations of Cloud and Precipitation Including the G-band. *Journal of Atmos. Meas. Techniques.* 14, no. 5: 3615-3629.
- 8. Lamer, K. and coauthors (2020). Ground-based radars insight into warm marine boundary layer clouds for shaping future spaceborne radar missions. *IEEE Radar Conference*. 1-4
- 9. Kollias P. and **coauthors** (2020). Agile adaptive radar sampling of fast-evolving atmospheric phenomena guided by satellite imagery and surface cameras. *Geophysical Research Letters*, 47.14 e2020GL088440
- 10. Battaglia A. and **coauthors** (2020). Mind the Gap Part 2: Improving quantitative estimates of cloud and rainwater path in oceanic warm rain using spaceborne radars. *Atmos. Meas. Tech.*, 13, 4865–4883
- 11. Lamer, K. and coauthors (2020). Mind-the-Gap Part 1: Precise Detection of Low-level Cloud and Precipitation Boundaries using Spaceborne Radars. *Atmos. Meas. Tech.*, 13, 2363–2379
- 12. Naud D. and **coauthors** (2020). On the Relationship Between The Marine Cold Air Outbreak M Parameter And Low-Level Cloud Heights In The Midlatitudes. *Journal of Geophysical Research: Atmospheres*, e2020JD032465.
- 13. Kollias, P., and **coauthors** (2020). The ARM Radar Network: At the Leading-edge of Cloud and Precipitation Observations. *Bulletin of the American Meteorological Society*, *101*(5), E588-E607.
- 14. Battaglia A. and **coauthors** (2020). Space-borne cloud and precipitation radars: status, challenges and ways forward. *Reviews of Geophysics*, e2019RG000686.
- 15. Lamer K., and coauthors (2020). Relationships between precipitation properties and large-scale conditions during subsidence at the eastern north Atlantic observatory. JGR: Atmospheres, 124
- 16. Zhu, Z., **K. Lamer** and coauthors (2019). The Vertical Structure of Liquid Water Content in Shallow Clouds as Retrieved from Dual-wavelength Radar Observations. *JGR-Atmospheres*, 124, no. 24 (2019): 14184-14197.
- 17. Endo, S. and **coauthors** (2019). Reconciling differences between large-eddy simulations and Doppler-lidar observations of continental shallow cumulus cloud-base vertical velocity, *GRL*, *46*(20), 11539-11547.
- 18. Lamer, K., and coauthors (2019). Characterization of Shallow Oceanic Precipitation using Profiling and Scanning Radar Observations at the Eastern North Atlantic ARM Observatory, *AMT*, *12*(9), 4931-4947.
- 19. Kollias P. and **coauthors** (2018). The EarthCARE Cloud Profiling Radar (CPR) Doppler measurements in deep convection: challenges, post-processing and science applications. *Remote Sensing of the Atmosphere, Clouds and Precipitation VII.* (Vol. 10776, p. 107760R). International Society for Optics and Photonic
- 20. Lamer, K. and coauthors (2018). (GO)<sup>2</sup>-SIM: a GCM-oriented ground-observation forward-simulator framework for objective evaluation of cloud and precipitation phase. *Geoscientific Model Development* 11, no. 10: 4195-4214.
- 21. Berg L. and coauthors (2016). The Two-Column Aerosol Project: Phase I—Overview and impact of elevated aerosol layers on aerosol optical depth. JGR: Atmospheres, 121(1), 336-361.

- 22. Lamer K. and P. Kollias (2015). Observations of fair-weather cumuli over land: Dynamical factors controlling cloud size and cover. *GRL*, *42*(20), 8693-8701.
- 23. Lamer K., P. Kollias, and L. Nuijens (2015). Observations of the variability of shallow trade wind cumulus cloudiness and mass flux. *JGR: Atmospheres*, 120(12), 6161-6178.
- 24. Lamer K., A. Tatarevic, I. Jo, and P. Kollias (2014). Evaluation of gridded scanning ARM cloud radar reflectivity observations and vertical Doppler velocity retrievals. *AMT*, 7(4), 1089-1103.
- 25. Kollias P. and **coauthors** (2014). Scanning ARM cloud radars. Part II: Data quality control and processing. *Journal* of Atmospheric and Oceanic Technology, 31(3), 583-598.

# **BOOK CHAPTER**

1. Lamer, K. and coauthors (in press). Surface-based remote sensing of key properties, Fast Physics in Large Scale Atmospheric Models: Parameterization, Evaluation, and Observations, edited by Y. Liu, P. Kollias and L. J. Donner. *AGU-Wiley*, 350

### **REPORTS TO FUNDING AGENCIES**

- 1. Khairoutdinov, M. F., Vogelmann, A. M., and **Lamer, K.** (12/2022) Simulating Wind Around Isolated Buildings with the System for Atmospheric Modeling. Report, BNL-223808-2022-INRE
- 2. Lamer K. (07/2022) BNL Support of the DHS-UTD Project. Series of 2 reports. Submitted to DHS SET.
- 3. Lamer K., and J. Heiser (06/2020 06/2022) Advanced Solar and Load Forecasting Incorporating HD Sky Imaging: Phase III. Series of 9 reports. *Submitted to DOE SETO*
- 4. Fan J. and **coauthors** (07/2019). Advancing the Use of ARM Observations for Large-Scale Earth System Model Development breakout session summary. *Submitted to ARM/ASR*.
- 5. Lamer K. and coauthors (04/2018) End-to-end Forward Simulators breakout session summary. *Submitted to ARM/ASR*.
- 6. Radar science group (05/2016 10/2017) Radar Science Workshop summary and recommendations. Series of 3 reports. *Submitted to ARM*
- 7. Lamer K. and coauthors (01/2016) Second recommendation on the optimum configuration of the two Scanning ARM Cloud Radars at the SGP. *Submitted to ARM*
- 8. Lamer K. and coauthors (05/2015) Recommendation on the optimum configuration of the two Scanning ARM Cloud Radars at the SGP. *Submitted to ARM*

#### **INVITED TALKS AND SEMINARS**

- 1. Lamer K. (11/2022) Going mobile to address emerging climate equity needs in the heterogeneous urban environment. Pennsylvania State University Seminar Series, State Collage, PA (invited seminar)
- 2. Lamer K. (07/2022) Advances in urban atmospheric monitoring and simulation. Center for Earth System Observation and Computational Analytics, Cologne, Germany (invited seminar)
- **3.** Lamer K. and coauthors (04/2022) FASSt initiative 4D Atmospheric Sensing and Simulation. DOE ASR Future of LES Workshop Virtual (invited plenary talk).
- 4. Lamer K. (01/2022) Towards a better understanding of the coupled climate-human-infrastructure-energy system. NASA/Goddard Space Flight Center. Virtual (invited seminar)
- 5. Lamer K. (05/2021). Considerations for using spaceborne radar and lidar observations for climate model evaluation and development. 2<sup>nd</sup> ESA EarthCARE Validation Workshop, virtual (invited talk)
- 6. Lamer K. (11/2021) Advances in urban atmospheric monitoring and simulation. BNL Nonproliferation and National Security Department seminar, Virtual (invited seminar)
- 7. Kirshbaum D., K. Lamer and S. Drueke. (06/2021) Insights into cumulus dilution from ARM observations and large-eddy simulations. ARM/ASR Joint PI Meeting, Virtual (contribution to invited talk)

- 8. Lamer K. (03/2021). A Multi-platform Perspective of Shallow Convective Cloud Dynamics. Rutgers University Spring Seminar Series (invited seminar)
- 9. Lamer K. (02/2021). A Multi-platform Perspective of Shallow Convective Cloud Dynamics. Iowa State University Spring Seminar Series (invited seminar)
- 10. Kollias P. and **coauthors** (12/2020) Multisensor Agile Adaptive Sampling of the Atmosphere Driven by Real-time Analytics. American Geophysical Union Fall Meeting, virtual (contribution to invited talk)
- 11. Naud C. and **coauthors** (12/2020) Boundary Layer Cloud Controlling Factors in the Midlatitudes: Southern versus Northern Ocean Clouds. American Geophysical Union Fall Meeting, virtual (contribution to invited talk)
- 12. Del Genio T. and **coauthors** (05/2016). Cloud Lifecycle working group updates, Plenary session, ARM/ASR Joint PI Meeting, Tysons, VA (contribution to invited talk).

### PRESENTATIONS AT INTERNATIONAL CONFERENCES AND INSTITUTES

- 1. Lamer K. (09/2022). Doppler velocity measurements from space, ERAD2022, Locarno, Switzerland (talk).
- 2. Lamer K. (09/2020). Accurately locating warm marine boundary layer clouds using spaceborne radars, IEEE Radar conference, virtual but hosted in Florence, Italy (talk)
- 3. Lamer K. (07/2020). Converging on an objective definition of cloud and precipitation phase: Ground-based radar and lidar observations for GCM model evaluation. National Observatory of Athens, Athens, Greece (talk)
- 4. Lamer K. (07/2019). Applications of Vertically Pointing Millimeter Radar for Cumulus Cloud Research. Peking University, Peking, China (talk)
- 5. Lamer K. (07/2019). Converging on an objective definition of cloud and precipitation phase: Ground-based radar and lidar observations for GCM model evaluation. Peking University, Peking, China (talk)
- 6. Lamer K. (07/2019). Applications of Vertically Pointing Millimeter Radar for Cloud Research. Lanzhou University, Lanzhou, China (talk)
- 7. Lamer K., P. Kollias, and L. Nuijens (05/2015). Observations of the variability of shallow Trade-wind cloudiness and mass flux, American Geophysical Union Joint Assembly, Montreal, Quebec, Canada (talk).
- 8. Lamer K. (07/2014). Observations of shallow cumulus mass flux at Barbados and its relationship to cloudiness and boundary layer structure, University of Cologne group visit, Cologne, Germany (talk).
- 9. Lamer K. (06/2014). 3-D and 4-D cloud observations from scanning mm-wavelength radars, Max Planck Institute for Meteorology, Hamburg, Germany (talk).
- 10. Lamer K. (05/2014). Scanning ARM Cloud Radar scientific applications, MIRA workshop, Germany (talk).
- 11. Lamer K. and coauthors (10/2013). Evaluation of gridded Scanning ARM Cloud Radar reflectivity observations and vertical Doppler velocity retrievals, ITaRS Summer School, Bucharest, Romania (poster).
- 12. Lamer K. and coauthors (10/2012). Development of a methodology to retrieve cloud vertical Doppler velocity, McGill Undergraduate Research Conference, Montreal, Quebec, Canada (poster).

# PRESENTATIONS AT US CONFERENCES AND INSTITUTES

- 1. Lamer K. and coauthors. (01/2023) The 3-D structure of Houston's urban heat island observed via rapid WindSond launches. American Meteorological Society, Denver Colorado (talk)
- 2. Lamer K. and coauthors. (03/2022) Going mobile to address emerging climate equity challenges in the heterogeneous urban environment. Conference on Innovations in Climate Resilience, Columbus OH (poster)
- Lamer K. and coauthors. (01/2022) Wind Measurements around a Supertall Building. American Meteorological Society 102<sup>nd</sup> Annual Meeting, Virtual (talk)
- 4. Lamer K. and Y. Liu. (11/2021) Solar and wind resource forecasting Current state and potential development avenues. Con Edison / BNL Strategic Summit, Virtual (talk)

- 5. Lamer K. (11/2021) Vertical air motion measurements along the façades of a supertall building point to heat as mechanism for vigorous mixing. George Mason University Conference on Atmospheric Transport and Dispersion Modeling, Virtual (talk)
- 6. Lamer K. (10/2021) Wind and temperature measurements around a supertall building. New York Scientific Data Summit, Virtual (poster)
- 7. Lamer K. (08/2021) One Vanderbilt Air Motion Study Preliminary results. Urban Threat Dispersion (UTD) Quarterly Meeting. Virtual (talk)
- 8. McComiskey A., C. Kuang, P. Kollias, **K. Lamer**, F. Yang. (08/2021) FASSt 4D Atmospheric Sensing and Simulation. DOE Biological and Environmental Research HQ. Virtual (talk)
- 9. Lamer K. (12/2020). Climatology of cloud entrainment in marine and continental shallow cumulus and its sensitivity to environmental factors. AGU Fall Meeting, virtual (poster)
- 10. Lamer K. (02/2020). Connecting Fundamental Atmospheric Research and Technology at BNL to Urban and Coastal Applications, Stevens Institute of Technology visit, Hoboken, NJ (talk)
- 11. Lamer K. (12/2019). Observational insight into the relationships between the environment and shallow rain. American Geophysical Union Fall Meeting, San Francisco, CA (talk).
- 12. Lamer K. (10/2019). Observational insight into the relationships between large-scale conditions and the properties of boundary-layer precipitation. Seminar at BNL. Brookhaven, NY (seminar)
- Lamer K. and coauthors (06/2019). Observational Evidence of the Effect of Large-scale Drivers on Marine Boundary Layer Precipitation during Subsidence in the Eastern North Atlantic. ARM/ASR Joint PI Meeting, Rockville, MD (talk)
- 14. Lamer K. and coauthors (06/2019). Observational Evidence of the Effect of Large-scale Drivers on Marine Boundary Layer Precipitation during Subsidence in the Eastern North Atlantic. ARM/ASR Joint PI Meeting, Rockville, MD (poster)
- **15.** Lamer K. and coauthors (01/2019). Profiling and Scanning ARM Radar Observations for the Characterization of Light Precipitation Variability. ACE-ENA Workshop, Brookhaven, NY (talk).
- 16. Lamer K. and coauthors (03/2018). End-to-end forward simulators breakout session summary. ARM/ASR Joint PI Meeting, Tysons, VA (talk).
- 17. Lamer K. and coauthors (03/2018). (GO)<sup>2</sup>-SIM for hydrometeor phase evaluation. ARM/ASR Joint PI Meeting, Tysons, VA (talk).
- 18. Lamer K. and coauthors (03/2018). A climatology of the vertical distribution of light rain intensity from warm low-level clouds over the ENA. ARM/ASR Joint PI Meeting, Tysons, VA (talk).
- Lamer K. and coauthors (03/2018). (GO)<sup>2</sup>-SIM for hydrometeor phase evaluation. ARM/ASR Joint PI Meeting, Tysons, VA (poster).
- **20.** Kollias P. and **coauthors** (03/2018). Shallow Precipitation Variability During ACE-ENA. ARM/ASR Joint PI Meeting, Tysons, VA (poster, presenting author).
- 21. Lamer K. and coauthors (12/2017). (GO)<sup>2</sup>-SIM: Moving forward towards and apples-to-apples comparison of hydrometeor phase, American Geophysical Union Fall Meeting, New Orleans, LA (poster).
- 22. Luke E. and **coauthors** (12/2017). Shallow precipitation measurements during the ACE-ENA, American Geophysical Union Fall Meeting, San Francisco, CA (poster).
- 23. Lamer K. and coauthors (03/2017). NSA ground-based observations for GCM evaluation: Arctic cloud phase within the context of cloud vertical structure, ARM/ASR Joint PI Meeting, Tysons, VA (talk).
- 24. Lamer K. (10/2016). (GO)<sup>2</sup>-SIM: Evaluation of hydrometeor phase in GCM, Radar Science Workshop, Stony Brook, NY (talk).
- 25. Lamer K. (10/2016). Status of KAZR moments files at the ENA, Radar Science Workshop, Stony Brook, NY (talk).
- 26. Kollias P. and **coauthors** (12/2016). Shallow cumulus variability at the Eastern North Atlantic site, The American Geophysical Union Meeting, San Francisco, CA (talk, presenting author).

- 27. Lamer K. and coauthors (12/2016). Using long-term ARM observations to evaluate Arctic mixed-phased cloud representation in the GISS ModelE3 GCM, AGU Fall Meeting, San Francisco, CA (poster).
- 28. Lamer K. and E. Luke (11/2016). Status of KAZR2 moments files at the ENA: A perspective from cumulusoriented research, Radar Science Workshop, Richland, WA (talk).
- 29. Lamer K. (05/2016). Scanning cloud radar products Beyond SACRCORR, ARM/ASR Joint PI Meeting, Tysons, VA (talk).
- 30. Lamer K. and coauthors (06/2016). Mapping ARM radar observations to microphysical processes in mixed-phase single layer clouds, ARM/ASR Joint PI Meeting, Tysons, VA (poster).
- 31. Lamer K. (02/2016). Scanning ARM cloud radar: Radar Science perspective, Radar Science Workshop, Miami, FL (talk).
- 32. Lamer K. and P. Kollias (03/2015). Scanning ARM Cloud Radar (SACR) volumetric cloud observations, ARM/ASR Joint PI Meeting, Tysons, VA (talk).
- 33. Lamer K. and P. Kollias (03/2015). Observations of forced and active cumulus at the SGP: Inferences for the ARM SGP Mega Site configuration, ARM/ASR Joint PI Meeting, Tysons, VA (poster).
- 34. Lamer K. and P. Kollias (02/2015). Observing fair-weather cumulus at the SGP central facility, Radar Science Workshop, Miami, FL (talk).
- 35. Lamer K. and coauthors (11/2014). Observations of shallow cumulus mass flux at Barbados and its relationship to cloudiness and boundary layer structure, ASR Fall Working Group Meeting, Bethesda, MD (talk).
- 36. Lamer K. and coauthors (03/2014). Gridded Scanning ARM Cloud Radar BL-RHI observations and new scientific opportunities, ASR Science Team Meeting, Potomac, MD (poster).
- 37. Lamer K. and coauthors (11/2013). Scanning ARM Cloud Radar 3-D gridded products radar reflectivities and vertical Doppler velocity retrievals: Discussion on how to move forward, ASR Fall Working Group Meeting, Rockville, MD (talk).
- 38. Lamer K. and coauthors (12/2012). 3D observations of marine stratocumulus structure and dynamics at the Azores using a scanning cloud radar, American Geophysical Union Fall Meeting, San Francisco, CA (talk).

#### **RELATED SKILLS**

MS Office Suite, MATLAB, LINUX

#### LANGUAGES

French (proficiency), English (proficiency), Greek (intermediate), Spanish (basic)