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EDUCATION

EDUCATION		
June 2002	Massachusetts Institute of Technology Ph.D. Climate Physics and Chemistry Thesis: Interannual Variability of Air-Sea Fluxes of Carbon Dioxide and Oxygen Advisors: John Marshall and Mick Follows	Cambridge MA
May 1995	Rice University B.S. Civil Engineering – Environmental option	Houston TX
RESEARCH A	ND PROFESSIONAL EXPERIENCE	
2017 to present	Columbia University / Lamont Doherty Earth Observatory Professor, Earth and Environmental Sciences I study the ocean carbon cycle and its role in the global carbon cycle. Under biogeochemical drivers of variability in the ocean carbon cycle and distinguishing anthropogenic trends is a key interest.	
2017 to present 2016 to 2017 2011 to 2016 2004 to 2011	University of Wisconsin - Madison Adjunct Professor, Atmospheric and Oceanic Sciences Professor, Atmospheric and Oceanic Sciences and Bryson Professor, Center for Associate Professor, Atmospheric and Oceanic Sciences Assistant Professor, Atmospheric and Oceanic Sciences	Madison WI Climatic Research
summer 2011	Woods Hole Oceanographic Institution Institution Visiting Scholar in Physical Oceanography and Marine Chemistry and	Woods Hole MA ad Geochemistry
2003 to 2004	Princeton University / University of Wisconsin - Madison Visiting Research Staff / Anna Julia Cooper Postdoctoral Fellow Ar and N ₂ in ocean and atmospheric models, ocean ¹⁴ C and inverse techniques; a	Princeton NJ and CO ₂ and O ₂ fluxes.
2002 to 2003	Instituto Nacional de Ecología (National Institute of Ecology) Consultant Analyzed potential public health co-benefits from the simultaneous control greenhouse gas emissions in Mexico City; capacity building for integrated environment.	
1996 to 2002	Massachusetts Institute of Technology Graduate Research assistant and Postdoctoral associate	Cambridge MA
1995 to 1996	Brown and Root Environmental Environmental specialist Assisted industrial clients with environmental compliance; duties included was hazardous waste abatement, and air pollution modeling.	Houston TX ter and soil sampling,
summer 1993	Clivius Multrum, USA Project consultant	Newton MA

PEER-REVIEWED PUBLICATIONS (McKinley group: grad*, undergrad**; postdoc⁺)

Ridge, S.M.*, and <u>G.A. McKinley</u> (2021) Ocean carbon uptake under aggressive emission mitigation, *Biogeosciences, in press.* doi: 10.5194/bg-2020-254. (63)

Gloege, L.*, <u>G.A. McKinley</u>, P. Landschützer, N.S. Lovenduski, K.B. Rodgers, A. Fay*, T. Frölicher, J.C. Fyfe, T. Illyina, S.D. Jones, C. Rödenbeck, S. Schlunegger and Y. Takano (2021) Quantifying errors in observationally-based estimates of ocean carbon sink variability, *Global Biogeochem. Cycles*, 10.1029/2020GB006788. (62)

Lovenduski, N.S., N.C. Swart, A.J. Sutton, J.C. Fyfe, <u>G.A. McKinley</u>, C. Sabine and N.L. Williams (2021) The ocean carbon response to COVID-related emissions reductions, *Geophys. Res. Lett.*, 10.1029/2020GL092263. (61)

Stamell, J.*, R.R. Rustagi**, L. Gloege*, and <u>G.A. McKinley</u> (2020) Strengths and weaknesses of three Machine Learning methods for pCO₂ interpolation, *Geoscientific Model Development Discuss*. doi: 10.5194/gmd-2020-311. (60)

Diffenbaugh, N.S., C.B. Field, E. Appel, I. Azevedo, D. Baldocchi, M. Burke, J. Burney, P. Ciais, S.J. Davis, A.M. Fiore, S. Fletcher, T. Hertel, D.E. Horton, S. Hsiang, R.B. Jackson, X. Jin, M. Levi, D. Lobell, <u>G.A. McKinley</u>, F.C. Moore, A. Montgomery, K.C. Nadeau, D. Pataki, J.T. Randerson, M. Reichstein, J.L. Schnell, S.I. Seneviratne, D. Singh, A. Steiner and G. Wong-Parodi (2020) The COVID-19 Lockdowns: A Window into the Earth System, *Nature Reviews Earth & Environment*, doi:10.1038/s43017-020-0079-1. (59)

Ridge, S.M.* and <u>G.A. McKinley</u> (2020) Advective controls on the North Atlantic anthropogenic carbon sink, *Global Biogeochem. Cycles*, doi:10.1029/2019GB006457. (58)

McKinley, G.A., A.R. Fay*, Y. Eddebbar, L. Gloege* and N.S. Lovenduski (2020) Forced mechanisms explain recent variability of the ocean carbon sink, *AGU Advances*, doi: 10.1029/2019AV000149. (57)

Gloege, L.*, <u>G.A. McKinley</u>, R. Mooney, J.D. Allan, M. Diebel and P. McIntyre (2020) Lake hydrodynamics intensify the potential impact of watershed pollutants on coastal ecosystem service, *ERL*, doi:10.1088/1748-9326/ab7f62. (56)

Uchida, T., D. Balwada, R. Abernathey, <u>G.A. McKinley</u>, S. Smith & M. Levy (2020) Eddy iron fluxes control primary production in the open Southern Ocean, *Nature Communications*, doi:10.1038/s41467-020-14955-0. (55)

Uchida, T., D. Balwada, R. Abernathey, <u>G.A. McKinley</u>, S. Smith and M. Levy (2019) The contribution of submesoscale over mesoscale eddy iron transport in the open Southern Ocean, *J. Adv. Model. Earth Sys.*, doi:10.1029/2019MS001805. (54)

Chen, H.*, and <u>G.A. McKinley</u> (2019) Isopycnal processes allow for summertime net heterotrophy despite net oxygen accumulation in the lower euphotic zone of the North Atlantic subtropical gyre, *Global Biogeochem. Cycles*, doi: 10.1029/2018GB006094. (53)

McKinley, G.A., A.L. Ritzer*, and N.S. Lovenduski (2018) Mechanisms of northern North Atlantic biomass variability, *Biogeosciences* 15, 6049-6066, doi:10.5194/bg-15-6049-2018. (52)

Fay, A.R.*, N.S. Lovenduski, <u>G.A. McKinley</u>, D.R. Munro, C. Sweeney, A.R. Gray, P. Landschützer, B. Stephens, T. Takahashi, N. Williams (2018) Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean pCO₂, *Biogeosciences*, 15, 3841-3855, doi:10.5194/bg-15-3841-2018. (51)

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PUBLICATIONS IN REVIEW

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SCIENTIFIC PLANNING AND REVIEW DOCUMENTS

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Benway, H., S. Alin, E. Boyer, W.-J. Cai, P. Coble, J. Cross, M. Friedrichs, M.,Goñi, P. Griffith, M. Herrmann, S. Lohrenz, J. Mathis, <u>G.A. McKinley</u>, R. Najjar, C. Pilskaln, S. Siedlecki, R. Smith (2016). A Science Plan for Carbon Cycle Research in North American Coastal Waters. Report of the Coastal CARbon Synthesis (CCARS) community workshop, August 19-21, 2014, Ocean Carbon and Biogeochemistry Program and North American Carbon Program, 84 pp., doi: 10.1575/1912/7777.

Michalak, A.M., R.B. Jackson, G. Marland, C. Sabine and The Carbon Cycle Working Group: R.F. Anderson, D. Bronk, K.J. Davis, R.S. Defries, A. S. Denning, L. Dilling, A. Jacobson, S. Lohrenz, A.D. McGuire, <u>G.A. McKinley</u>, C. Miller, B. Moore III, D.S. Ojima, B. O'Neill, J.T. Randerson, S.W. Running, B. Sohngen, P.P. Tans, P.E. Thorton, S.C. Wofsy, N. Zeng (2011) A U.S. Carbon Cycle Science Plan, a UCAR report.

Alin S.R., J. Day, <u>G.A. McKinley</u>, C. Stow, M. Baker, E. Brody, R. Bohne, T. Nalepa, T. Heatlie, A.J. Sutton, and R.A. Feely (2010) Great Lakes Region Acidification Research Plan—NOAA Ocean Acidification Steering Committee: NOAA Ocean and Great Lakes Acidification Research Plan, NOAA Special Report, 143 pp.

OTHER PUBLICATIONS AND PRODUCTS

Mouw, C.B.⁺ A. Barnett, <u>G.A. McKinley</u>, L. Gloege* and D.J. Pilcher* (2016) Global Ocean Particulate Organic Carbon flux merged with satellite parameters. doi:10.1594/PANGAEA.855600.

Ocean Carbon and Biogeochemistry Program (2015) Temporal and Spatial Perspectives on the Fate of Anthropogenic Carbon: A Carbon Cycle Slide Deck for Broad Audiences with explanatory notes. Contributors: S. Khatiwala, T. DeVries, J. Cook, <u>G.A. McKinley</u>, C. Carlson and H. Benway. doi:10.1575/1912/7670.

Bracco, A., M.C. Long, N.M. Levine, R.Q. Thomas, C. Deutsch and <u>G.A. McKinley</u> (2015) NCAR's Summer Colloquium: Capacity Building in Cross-Disciplinary Research of Earth System Carbon–Climate Connections. *Bull. Amer. Meteor. Soc.*, **96**, 1381–1384. doi:10.1175/BAMS-D-13-00246.1.

Fay, A.R.* and <u>G.A. McKinley</u> (2014) Global Ocean Biomes: Mean and time-varying maps. doi:10.1594/PANGAEA.828650.

Thomas, R.Q., <u>G.A. McKinley</u>, and M.C. Long (2013) Examining uncertainties in representations of the carbon cycle in Earth System Models. *EOS* 94:460.

Mooney, M.E., S. Ackerman, S., <u>G.A. McKinley</u>, T. Whittaker and T. Jasmin (2012) Lesson plans and classroom activities from the Climate Literacy Ambassadors community. *The Earth Scientist* 28, 30-32.

McKinley, G.A., N. Urban, V. Bennington*+, D. Pilcher* and C. McDonald (2011) Preliminary carbon budgets for the Laurentian Great Lakes, OCB News, Spring/Summer 2011.

McKinley, G. A. (2008), Fixing Climate: What Past Climate Changes Reveal About the Current Threat—And How to Counter It (*Book review*), Eos Trans. AGU, 89(43), 422–422, doi:10.1029/2008EO430009.

PROFESSIONAL SERVICE		
2021 to present	PICES/ICES, Working Group 46, Ocean Negative Carbon Emissions	
	Member	
2020 to present	Ocean Carbon and Biogeochemistry program, Working Group on Ocean Carbon Gaps	
_	Chair	
2020 to present	The Oceanography Society	
_	Chemical Oceanography Councilor, 2020-2022	
2019 to present	Annual Reviews of Earth and Planetary Science, Editorial Board	
	Editorial Board, 2020-2024; Guest, 2019	
2019 to present	Defense Science Study Group Alumni Outreach Committee	
	Committee of 10 recent DSSG alumni; tasked by IDA to advise on alumni engagement	
April 2020	ECCO Review Panel, NASA, Washington DC	
_	Invited panel member	
February 2020	AGU/ASLO/TOS Ocean Sciences 2020, San Diego CA	
•	Co-convener and chair: "The Evolving Ocean Carbon Sink: Processes and Impacts"	
October 2019	Expert Workshop on Integrated Ocean Carbon Research (IOCR), Paris, France	
	Invited participant and speaker	
October 2019	CMIP6 Hackathon, Boulder CO / Palisades NY / Seattle WA / ETH Zurich	
	Co-organizer of OCB and CLIVAR sponsored hackathon	
September 2019	Vetlesen Prize Selection Committee	
•	Awarded bi-annually for distinction in earth science research	
2018 to 2019	GO SHIP Program Review Committee	
	Committee of 6; tasked by OCB and US CLIVAR to review the repeat hydrography program	
2017 to 2019	AGU Chapman Conference, La Jolla CA	
	Program committee for conference: "Understanding carbon climate feedbacks", August 2019	
December 2018	American Geophysical Union Fall Meeting, Washington DC	
	Co-convener and chair: "Understanding changing ocean biogeochemistry"	
December 2018	Ocean carbon uptake in CMIP6 models, Washington DC	
	Co-organizer of OCB-sponsored workshop	
2014 to 2018	Global Carbon Project Scientific Steering Committee (GCP-SSC)	
	The GCP coordinates international carbon cycle activities under Future Earth.	
June 2018	The effects of climate change on the world's oceans, Washington DC	
	Co-convener and chair: "Carbon uptake, ocean acidification, and ecosystem and human impacts"	
February 2018	AGU/ASLO/TOS Ocean Sciences 2018, Portland OR	
•	Co-convener and chair: "The ocean carbon cycle across timescales"	
2016 to 2018	MPOWIR mentor	
	Co-lead of monthly mentoring teleconferences with 10 junior women in physical oceanography	
2014 to 2017	Ocean Model Intercomparison Project Scientific Steering Committee (OMIP6-SSC)	
	This is the 6 th round of ocean model intercomparison under the CMIP6 umbrella.	
2015 to 2017	NASA Ocean Biology and Biogeochemistry Pre-Decadal Survey / Advanced Plan Review Team	
	Reviewed community-proposed input to the NASA Decadal Survey for the OBB program	
2016 to 2017	Great Lakes Advisory Board Science and Information Subcommittee	
	Appointed by the EPA administrator to advise the Great Lakes Interagency Task Force	
2015 to 2017	CONCORDE Scientific Advisory Panel	
	CONCORDE is a GoMRI-funded group pursuing science needs identified with Deepwater Horizon.	
January 2017	Panelist, NOAA Climate Program Office, Ocean Observing & Monitoring, Washington DC	
•	Review panelist for OOM program	
2011 to 2016	Carbon Cycle Science Scientific Steering Group (CCSSG)	
	CCSSG discusses science with the US Carbon Cycle Interagency Working Group (CCIWG)	
2008 to 2016	North American Carbon Program / Ocean Carbon and Biogeochemistry Coastal CARbon	
	Synthesis, Leader: Great Lakes Working Group; Co-author of final CCARS Science Plan	
February 2016	AGU/ASLO/TOS Ocean Sciences 2016, New Orleans, LA	
~	Co-convener: "How do the carbon pumps pump? Mechanisms of the solubility and biological pumps	
2012 to 2015	US CLIVAR - OCB Working Group	
	Oceanic carbon uptake in the CMIP5 models, Core Member	

	GIEDI IN MERINDET
2011 to 2014	Global Biogeochemical Cycles Associate Editor
November 2014	External evaluator, Helmholtz Center Geesthacht, Germany
April 2014	Evaluation of candidates for director Planning Workshop: Int'l Research on the Coupled N. Atlantic-Arctic System, Washington DC
71pm 2014	Invited participant
February 2014	AGU/ASLO/TOS Ocean Sciences 2014, Honolulu, HI
2012 to 2013	Co-convener and session chair: "Mechanisms of biogeochemical variability in the global oceans" Defense Science Study Group (DSSG), Institute for Defense Analysis (IDA)
2012 to 2015	Selected from 150+ nominees to be one of 15 members of the 2012-2013 class. DSSG tours the
2012 to 2013	country to learn about the activities and STEM needs of US defense and intelligence agencies.
2012 to 2013	NCAR ASP Colloquium, Summer 2013 Co-organizer and lecturer for workshop on "Carbon Climate Connections in the Earth System"
2012 to 2013	External Review Committee for US CLIVAR AMOC program
2010 4- 2012	Attendance and interviews at annual meeting, survey of AMOC PI community, report preparation
2010 to 2013	REgional Carbon Cycle Assessment and Processes (RECCAP) Co-lead: Arctic and Atlantic; co-author: Global Carbon Storage and Global Air-Sea Flux
2008 to 2011	Carbon Cycle Science Working Group (CCS-WG)
0.4.12011	The CCS-WG wrote the New US Carbon Cycle Science Plan (2012)
October 2011	Patullo Conference, MPOWIR, Warrenton, VA Senior participant; Meeting goal is to promote retention of women in physical oceanography
December 2010	NACP/OCB Coastal Carbon Synthesis Workshop, San Francisco, CA
March 2010	Co-organizer and speaker Caltech Keck Institute for Space Studies (KISS), Pasadena, CA
Wiaicii 2010	Invited participant in study program "Quantifying the Sources and Sinks of Atmospheric CO ₂ "
February 2010	AGU/ASLO/TOS Ocean Sciences 2010, Portland, OR
May 2009	Co-convener and session chair: "Carbon Cycling in the Coastal Oceans" International Association of Great Lakes Research Annual Meeting, Toldeo, OH
Way 2009	Co-convener and session chair: "Carbon Cycling in the Laurentian Great Lakes"
2005 to 2008	Ocean Carbon and Biogeochemistry Scientific Steering Committee (OCB-SSC)
2005 to 2008	Committee member, tasked to advise NSF, NASA and NOAA on research directions Earth Science Women's Network (ESWN)
2003 to 2000	Leadership Board member
December 2008	American Geophysical Union Fall Meeting, San Francisco, CA
July 2007	Co-convener and session chair: "Ocean Carbon Cycle: Decadal Trends" Ocean Carbon and Biogeochemistry Summer Workshop, Woods Hole, MA
taly 2007	Co-organizer and session chair for "Changing ocean biogeochemistry: The prediction challenge"
April 2005	External Review Committee for JISAO at NOAA-University of Washington, Seattle, WA
June 2004	North American Coastal Margins: The Coastal CO ₂ Workshop, Boulder, CO NOAA GCC Workshop: Understanding North Pacific Carbon-cycle Changes, Seattle WA
June 2004	UCAR/NCAR Junior Faculty Forum on Future Scientific Directions, Boulder, CO
December 2003	American Geophysical Union Fall Meeting, San Francisco, CA Co-convener and session chair for Union session: "Health, Air Pollution and Climate"
	Co-convener and session chair for Onion session. Treatn, Air Fondtion and Chinace
2002 to present	Reviewer for Papers and Proposals
	Papers and books: AGU Books, BAMS, BG/BGD, Cambridge U. Press, DSR, Ecology Lett, ESD/ESDD, EST, EI, EOS, Frontiers, GBC, GMD/GMDD, GRL, Inland Waters, JAMES, JES, JGR,
	L&O, Nature, Nature Climate Change, Nature Geoscience, Ocean Dynamics, OS/OSD, PNAS, Prog.
	Oceanog., Princeton U. Press, Science, Springer, Tellus B, U. Chicago Press Assessment Reports: National Academy of Science review of SOCCR2 (2018), IPCC SROCC (2018)
	Proposals: NASA (OBB, Carbon Cycle, MAP), NOAA, NSF (DEB, CO, OTIC, PO), ArcticNet,
	Leaders Opportunity Fund (Quebec), Ocean Frontier Institute (CA), NSERC (CA), SeaGrant (WI, HI,
	OH), Marsten Fund (NZ), U. Michigan Water Center <i>Proposal Panels:</i> NASA (2004, 2011, 2013, 2021); NSF (2008, 2017); NOAA (2021)
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AWARDS AND HONORS

2020	Ocean Sciences Voyager Award, American Geophysical Union
2019	ATOC Distinguished Lecturer, University of Colorado Boulder
2016	NAS Kavli Fellow
2012 to 2013	Defense Science Study Group
2011	Class of 1955 Distinguished Teaching Award, University of Wisconsin - Madison
2008 to 2011	NASA New Investigator
2010	Faculty teaching award from UW-Madison AOS Graduate Student Association
2003 to 2004	Anna Julia Cooper Postdoctoral Fellow, from University of Wisconsin – Madison
2000 to 2001	Martin Fellow for Sustainability, MIT
1999 to 2002	NASA Earth System Science Fellowship
1999	Teaching Assistant Prize, MIT Department of Earth, Atmospheric and Planetary Sciences

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science (2020-present)

American Geophysical Union (1998-present)

American Society of Limnology and Oceanography (2011-present)

Earth Science Women's Network (2003-present)

The Oceanography Society (2008-present)

SERVICE at COLUMBIA UNIVERSITY

2018 to present	Diversity Committee , Earth and Environmental Sciences
	Chair 2019-present
2020	Diversity, Equity and Inclusion Task Force, Lamont Doherty Earth Observatory
2020	Vision Committee, Lamont Doherty Earth Observatory
2018 to 2020	Graduate Admissions Committee, Earth and Environmental Sciences
2017	RISE Competition, reviewer

SERVICE at UNIVERSITY OF WISCONSIN - MADISON

2015 to 2017	Physical Sciences Divisional Committee, Campus-level faculty tenure review committee
2013 to 2017	Curriculum Committee chair, AOS
2011 to 2017	Women Faculty Mentoring Program Advisory Committee
2004 to 2017	Curriculum, Strategic Planning, Budget, Faculty Recruitment, Computing,
Qualifying Exam, Award, Graduate Recruitment Committees, AOS	
2015 to 2016	Ad-hoc Committee on Post-Tenure Review, Campus-level faculty committee
2013 to 2016	Curriculum Committee, College of Letters & Science
2010 to 2015	Co-chair for Undergraduate Education. AOS
2013 to 2015	Major in Environmental Science, L&S Faculty Advisor, and Executive Committee
2013 to 2014	Center for Climatic Research Science Council
2013 to 2014	Ad-hoc Committee on Fossil Fuel Use and Climate Change, Campus-level committee
2011 to 2012	Nelson Institute Director Search and Screen Committee

PROFESSIONAL DEVELOPMENT

November 2004	UW System Women & Science, Workshop for STEM Faculty, Wisconsin Dells, WI
March 2003	Dissertations Initiative for the Advancement of Climate Change Research, Guanica, PR
May 2002	Carbon Cycle Data Assimilation Institute, Boulder, CO
June 2001	American Meteorological Society Summer Policy Colloquium, Washington, DC
January 1999	JGOFS Training Course on Biogeochemical Modeling of the Ocean, Bangalore, India

SELECTED PRESENTATIONS

April 2021	NOAA Global Monitoring Laboratory, Boulder CO (virtual) Invited seminar, "Models, observations and theory to understand the ocean carbon sink"
February 2021	Earth and Environmental Engineering, Columbia University (virtual)
December 2020	Invited seminar, "Decadal variability in the ocean carbon sink" Machine Learning in Science & Engineering, Columbia Data Science Institute (virtual) Invited, "Quantifying the ocean carbon sink with sparse data, physical models and machine learning"
December 2020	American Geophysical Union, Fall Meeting (virtual) Oral, "Quantifying the ocean carbon sink for 1994-2007: Combined evidence from multiple methods"
November 2020	Atmospheric and Oceanic Sciences, University of Wisconsin, Madison WI
postponed April 2020	Invited seminar, "Understanding change in ocean carbon sink" Woods Hole Oceanographic Institution, Woods Hole MA
April 2020	Invited seminar, "Understanding change in ocean carbon sink" (virtual) Geochemistry Seminar, Lamont Doherty Earth Observatory, Palisades NY
February 2020	Seminar, "Mechanisms of decadal variability in the ocean carbon sink" (virtual) AGU/ASLO/TOS Ocean Sciences 2020 , San Diego CA
October 2019	Oral, "Forced mechanisms of decadal variability in the ocean carbon sink"
	Atmospheric and Oceanic Sciences, University of Colorado, Boulder CO Distinguished Lecture, "Understanding recent decadal variability of the global ocean carbon sink"
August 2019	Observing Carbon Climate Feedbacks, Chapman Conference, La Jolla CA Invited Plenary Speaker, "Forced change in the ocean carbon sink"
July 2019	Chemical Oceanography, Gordon Conference, Holderness NH
	Invited Plenary Speaker, "Forced change in the ocean carbon sink"
May 2019	Princeton University, Princeton NJ
	Invited seminar, "Forced change in the ocean carbon sink"
April 2019	University of Connecticut, Avery Point CT
D 1 2010	Invited seminar, "Forced change in the ocean carbon sink"
December 2018	Ocean carbon uptake in CMIP6 models workshop, Washington DC
T 2010	Oral, "Forced changes and internal variability in the ocean carbon sink"
June 2018	The Effects of Climate Change on the World's Oceans, 4th Int'l Symposium, Washington DC
A	Oral, "Variability and trends in ocean carbon uptake: 1981-2016"
April 2018	Massachusetts Institute of Technology, Earth Atmospheric and Planetary Sciences, Cambridge MA
A	Invited seminar, "Diagnosing change in the ocean carbon sink"
April 2018	University of Pennsylvania, Philadelphia, PA Invited seminar, "Diagnosing change in the ocean carbon sink"
February 2018	AGU/ASLO/TOS Ocean Sciences 2018, Portland OR
	Poster, "Correlations of surface ocean pCO ₂ to satellite chlorophyll, monthly to interannual"
January 2018	NASA GISS, New York, NY
N 1 2017	Invited seminar, "Variability in the ocean carbon sink"
November 2017	Geophysical Fluid Dynamics Laboratory, Princeton NJ
Oatabar 2017	Invited seminar, "Variability in the ocean carbon sink: Drivers and challenges to detection" Distinguished Scientist Seminar Marine Biological Laboratory, Woods Hele MA
October 2017	Distinguished Scientist Seminar, Marine Biological Laboratory, Woods Hole MA
September 2017	Invited seminar, "Understanding the ocean's role in the global carbon cycle" Ocean Carbon Hotspots Workshop of CLIVAR and OCB, Monterey CA
. 2017	Plenary, "Timescales and mechanisms of change in ocean carbon sink"
August 2017	International Carbon Dioxide Conference 10, Interlaken, Switzerland
A	Plenary, "Detecting and understanding the changing ocean carbon sink with data and models"
April 2017	Nelson Institute Earth Day Conference, University of Wisconsin, Madison WI
Ianuam: 2017	Moderator and Speaker, "What now? Preparing for Environmental Change"
January 2017	Cooperative Inst. Limnology & Ecosystems Research, U. Michigan, Ann Arbor MI Invited seminar, "Spatial variability and potential long-term trends in Great Lakes carbon"
	https://www.youtube.com/watch?v=m80c5Zbxctk
December 2016	American Geophysical Union, Fall Meeting, San Francisco CA
December 2010	Oral, "Seasonal cycles and long-term growth in Southern Ocean carbon uptake"
	orai, beasonar cycles and long-term grown in bountern occan carbon uptake

	GILLIAM MORINELI
November 2016	Climate People and the Environment Program, University of Wisconsin, Madison WI Seminar, "Mechanistic connections between carbon and chlorophyll in the global ocean"
October 2016	Kavli Frontiers of Science Symposium, Irvine CA
July 2016	Invited poster "Natural Variability and Anthropogenic Trends in the Ocean Carbon Sink" Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
July 2010	Invited plenary, "Detecting trends in the ocean carbon sink"
June 2016	Scripps Institution of Oceanography, La Jolla CA
	Seminar, "Detection of trends in the ocean carbon sink"
June 2016	Lamont-Doherty Earth Observatory of Columbia University, Palisades NY
	Invited colloquium, "Detection of trends in the ocean carbon sink"
April 2016	University of Wisconsin – Climate Change Symposium, Madison WI
March 2016	Invited plenary, "Ocean mitigation of climate change: past, present and future"
March 2016	Sarmiento Symposium, Princeton NJ Invited speaker and panelist, "The breath of life — a changing carbon cycle"
February 2016	AGU/ASLO/TOS Ocean Sciences 2016, New Orleans LA
1 cordary 2010	Oral, "Detectability of change in the ocean carbon sink"
February 2016	Climate People and the Environment Program, University of Wisconsin, Madison WI
•	Invited seminar, "Variability and trends in ocean carbon uptake from models and data"
January 2016	NOAA -Pacific Marine Environmental Laboratory, Seattle WA
~	Invited seminar, "Variability and trends in ocean biogeochemistry from models and data"
September 2015	
June 2015	Invited seminar, "The ocean carbon sink: Separating trends from variability" Global Carbon Project Scientific Steering Committee Meeting, Oslo, Norway
Julie 2013	Invited plenary, "Ocean carbon research and integration in the global carbon cycle"
June 2015	JASON summer study, La Jolla, CA
2010	Invited brief, "Changing ocean carbon: Observations and models"
May 2015	University of Wisconsin Water Symposium, Madison WI
	Invited plenary, "Circulation and carbon: Oceans and Great Lakes"
March 2015	Pre-decadal survey workshop on Carbon and Climate, Norman OK
D 1 2014	Invited plenary, "Uncertainties and unknowns in the ocean carbon sink (+coastal and inland)"
December 2014	1 1
December 2014	Oral, "Carbon cycle variability associated with AMO, NAO and AMOC" US CLIVAR / OCB Joint Workshop on ocean heat and carbon uptake, San Francisco CA
December 2014	Invited plenary, "Quantifying carbon uptake and its trends"
November 2014	JASON 2014 fall meeting, Washington DC
	Invited plenary, "The changing ocean: Carbon, climate and coupled feedbacks"
November 2014	Carbon Cycle Interagency Working Group, Washington DC
	Invited plenary, "The ocean carbon sink: Present knowledge and critical gaps"
August 2014	Coastal Carbon Synthesis Community Workshop, Woods Hole MA
June 2014	Invited plenary, "Great Lakes carbon budgets" Ook Bidge National Lab. Ook Bidge TN
June 2014	Oak Ridge National Lab, Oak Ridge TN Talk, "Carbon and biogeochemistry in the oceans and Great Lakes"
April 2014	Center for Climatic Research and Climate People and Environment Program, Madison WI
71pm 2011	Seminar, "Climate change and national security: Implications and preparedness"
March 2014	Institute for Defense Analysis, Alexandria VA
	Invited seminar, "What I learned and some recommendations"
March 2014	Lamont-Doherty Earth Observatory of Columbia University, Palisades NY
	Invited seminar, "Natural variability and anthropogenic trends in the ocean carbon sink"
E-1 2014	http://tinyurl.com/mrj3bo8
February 2014	AGU/ASLO/TOS Ocean Sciences 2014, Honolulu HI Oral, "CO ₂ -acidification of the Laurentian Great Lakes"
August 2013	NCAR ASP Key Uncertainties in the Global Carbon Cycle, Boulder CO
- 100001 2010	Invited plenary, "Using data to elucidate feedback mechanisms in the ocean carbon cycle"
August 2013	NCAR ASP Graduate Student Colloquium, Boulder CO
-	Invited lecture, "Mechanisms of ocean carbon climate feedback: What do the data support?"

	GALEN A. MUKINLEY
July 2013	NCAR ASP Graduate Student Colloquium, Boulder,CO
-	Invited lecture, "Ocean carbon biogeochemistry: Productivity, export, remineralization"
June 2013	9th International Carbon Dioxide Conference, Beijing, China
1 2012	Oral, "Regional distribution and seasonal mechanisms of carbon uptake in the global oceans"
March 2013	Biogeochemistry of the Great Lakes System, Wayne State University, Detroit MI
January 2013	Invited plenary, "Spatio-temporal variability and long-term trends in Great Lakes carbon cycling" University of Wisconsin - Madison, Atmospheric and Oceanic Sciences, Madison WI
January 2015	Seminar, "The ocean carbon sink: How strong? How vulnerable?"
January 2013	Ohio State University, Climate Change Webinar
2012	Invited, "Climate, carbon impacts on productivity, chemistry & invasive species in the Great Lakes."
July 2012	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
-	Invited Plenary, "RECCAP: Results from a global synthesis on ocean carbon uptake"
April 2012	NASA Ocean Color Research Team Meeting, Seattle WA
	Plenary, "Trends in ocean carbon uptake"
February 2012	AGU/ASLO/TOS Ocean Sciences 2012, Salt Lake City UT
Ianuam, 2012	Oral, "Physical drivers of biogeochemical and carbon cycling in Lake Superior"
January 2012	Lake Superior Research Symposium, University of Minnesota, St. Paul MN Invited talk, "Modeling circulation, carbon and climate for Superior"
November 2011	Department of Chemistry and Biochemistry, University of Montana, Boseman MT
Trovellioer 2011	Invited seminar, "Trends in ocean carbon uptake"
November 2011	School for Freshwater Science, University of Wisconsin - Milwaukee, Milwaukee WI
	Invited seminar, "Circulation, carbon cycling and invasive species in Lake Superior"
September 2011	The Ocean Carbon Cycle at A Time Of Change: Synthesis And Vulnerabilities, Paris, France
	Invited plenary, "Attribution: What drives CO ₂ sink trends?" (given by A. Fay due to injury)
August 2011	Gordon Research Conference, Andover NH
I1 2011	Poster, "Convergence of atmospheric and North Atlantic CO ₂ trends on multidecadal timescales"
July 2011	Woods Hole Oceanographic Institution, Woods Hole MA Seminar, "Biogeochemistry, carbon cycling and invasive species in Lake Superior"
July 2011	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
July 2011	Poster, "Convergence of atmospheric and North Atlantic CO ₂ trends on multidecadal timescales"
July 2011	Woods Hole Oceanographic Institution, Woods Hole MA
•	Seminar, "Convergence of atmospheric and North Atlantic CO ₂ trends on multidecadal timescales"
February 2011	North American Carbon Program Meeting, New Orleans LA
	Poster, "Lake Superior's influence on regional carbon budgets"
December 2010	American Geophysical Union, Fall Meeting, San Francisco CA
D	Poster, "The carbon cycle of Lake Superior: Balancing the budget with spatial heterogeneity"
December 2010	NACP/OCB Coastal Carbon Synthesis Workshop, San Francisco CA Oral, "Modeling carbon in the coastal zone"
November 2010	Environmental Chemistry and Technology Program, University of Wisconsin, Madison WI
November 2010	Invited seminar, "Spatio-temporal variability in the carbon cycle of Lake Superior"
October 2010	Michigan Technological University, Houghton MI
	Invited seminar, "Spatio-temporal variability in the carbon cycle of Lake Superior"
October 2010	Duke University, Durham NC
	Invited seminar, "Decadal variability and multidecadal trends in the North Atlantic carbon sink"
July 2010	Ocean Carbon and Biogeochemistry Workshop, La Jolla CA
I 2010	Poster, "Decadal variability and multidecadal trends in the North Atlantic carbon sink"
June 2010	JASON Study on Carbon Treaty Verification, La Jolla CA Invited talk, "Carbon in water: Open ocean, coastal zone and inland waters"
June 2010	Scripps Institution of Oceanography, La Jolla CA
June 2010	Seminar, "Understanding recent variability in the North Atlantic carbon sink"
May 2010	Aquatic Ecosystem Health and Management: Ecology of Lake Superior, Duluth MN
,	Oral, "Carbon cycle variability in Lake Superior and impacts on the regional carbon budget"
May 2010	Subpolar North Atlantic Workshop, Durham NC
	Invited talk, "North Atlantic carbon uptake from biogeochemical models and data"
March 2010	Caltech Keck Institute for Space Studies (KISS), Pasadena CA
	Invited plenary, "Air-sea CO ₂ fluxes: Climatology, variability and land-ocean links"

	GALEN A. MCKINLEY
February 2010	AGU/ASLO/TOS Ocean Sciences 2010, Portland OR
,	Invited oral, "Reconciling observed and modeled trends in the North Atlantic carbon sink"
November 2009	North American Carbon Program 2 nd Joint Workshop, Oak Ridge TN
	Invited oral, "Carbon cycling in North American coastal waters"
August 2009	Biogeochemistry and Carbon Cycle of Lake Superior, Woodruff WI
	Oral, "Biogeochemical variability in Lake Superior – A modeling perspective"
July 2009	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
	Poster, "Understanding the carbon budget of Lake Superior"
May 2009	International Association of Great Lakes Research Annual Meeting, Toledo OH
	Oral, "The magnitudes and mechanisms determining the carbon budget of Lake Superior"
May 2009	NASA Ocean Color Research Team Meeting, New York NY
	Poster, "Do hurricanes drive variability of the air-sea CO ₂ flux in the subtropical North Atlantic?"
December 2008	American Geophysical Union, Fall Meeting, San Francisco CA
	Oral, "The changing North Atlantic carbon sink: 1992-2006"
December 2008	University of Wisconsin - Madison, Atmospheric and Oceanic Sciences, Madison WI
0 1 2000	Seminar, "Variability in the ocean carbon cycle: A North Atlantic perspective"
October 2008	Colorado State University, Fort Collins CO
T.1. 2000	Invited seminar, "Variability in the ocean carbon cycle: A North Atlantic perspective"
July 2008	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
1 2000	Invited plenary, "Carbon sink trends in the Northern Oceans"
June 2008	Workshop on Teaching Weather and Climate Using Laboratory Experiments, Chicago IL
M 2000	Poster, "Rotating tank experiments in an atmospheric and oceanic science undergraduate curriculum"
May 2008	Effects of Climate Change on the World's Oceans, Gijon, Spain
A:1 2000	Oral, "Trends in the North Atlantic carbon sink"
April 2008	NASA Ocean Color Research Team Meeting, Adelphi MD
March 2008	Plenary, "The changing North Atlantic carbon cycle"
March 2006	Princeton University, Princeton NJ Seminar "Trends and variability in the carbon cycle of the North Atlantic"
March 2008	AGU/ASLO/TOS Ocean Sciences 2008, Orlando FL
March 2006	Oral, "Carbon cycle variability and trends at Bermuda and across the North Atlantic"
January 2008	American Meteorological Society Annual Meeting, New Orleans LA
Junuary 2000	Co-author on one talk and 2 posters on undergraduate teaching with the 'Weather in a tank' project
October 2007	Stony Brook University, Stony Brook NY
2007	Invited public lecture, "The oceans and the climate system"
July 2007	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
oury 2007	Poster, "Carbon cycle variability in the North Atlantic: Timescales of change"
April 2007	Johns Hopkins University, Baltimore MD
1	Invited seminar, "Air-sea CO ₂ flux variability: Physical and ecological drivers"
April 2007	Surface Ocean CO ₂ Variability and Vulnerability Workshop, UNESCO, Paris, France
1	Plenary, "North Atlantic CO ₂ flux variability: Physical and ecological drivers"
April 2007	NASA Ocean Color Research Team Meeting, Seattle WA
-	Poster, "Physical and biological drivers of carbon cycle variability in the North Atlantic"
April 2007	Michigan Technological University, Houghton MI
	Invited seminar, "Air-sea CO ₂ flux variability: Physical and ecological drivers"
July 2006	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
	Poster, "Modeling the seasonal cycle of pCO ₂ in the North Atlantic"
June 2006	The Art of Climate Modeling, NCAR/ASP Summer School, Boulder CO
	Invited lecture, "Modeling ocean biogeochemistry"
February 2006	AGU/ASLO/TOS Ocean Sciences 2006, Honolulu HI
	Talk, "North Pacific carbon cycle response to climate variability on seasonal to decadal timescales"
February 2006	Old Dominion University, Norfolk VA
	Invited seminar, "Air-sea CO ₂ flux variability on seasonal, interannual and decadal timescales"
November 2005	University of Maryland, College Park MD
	Invited seminar, "Air-sea CO ₂ flux variability on seasonal, interannual and decadal timescales"
November 2005	Great Lakes Environmental Research Laboratory, Ann Arbor MI
	Invited seminar, "Air-sea CO ₂ flux variability on seasonal, interannual and decadal timescales"

September 2005	Seventh International Carbon Dioxide Conference, Broomfield CO
August 2005	Invited plenary, "Pacific dominance to global air-sea CO ₂ flux variability"
August 2005	Ocean Carbon Cycle and Climate Change Workshop, Woods Hole MA Poster "North Pacific carbon cycle response to climate variability on seasonal to decadal timescales"
March 2005	
March 2003	The Pennsylvania State University, State College PA Invited against "COL air see flow variability Opens models and atmospheric inversions"
March 2005	Invited seminar, "CO ₂ air-sea flux variability: Ocean models and atmospheric inversions" Princeton University , Princeton NJ
Maich 2003	Seminar, "Argon as a tracer of physical processes in the atmosphere and ocean"
December 2004	American Geophysical Union, Fall Meeting, San Francisco CA
December 2004	Poster, "Testing ocean models with argon and nitrogen"
November 2004	University of Wisconsin, Sustainability and the Global Environment (SAGE), Madison WI
November 2004	Seminar, "Local and global benefits of air pollution control in Mexico City"
October 2004	University of Wisconsin, Chaos and Complexity Seminar Series, Madison WI
OCIODEI 2004	Seminar, "CO ₂ air-sea flux variability: Ocean models and atmospheric inversions"
October 2004	SOLAS Science 2004, Halifax, Canada
October 2004	Poster, "Atmospheric Ar/N ₂ : A Tool for Constraining Atmosphere and Ocean Models"
June 2004	NOAA GCC Workshop: Understanding North Pacific Carbon-cycle Changes, Seattle WA
June 2004	Invited plenary, "Modeled North Pacific carbon cycle variability"
May 2004	Geophysical Fluid Dynamics Laboratory, Princeton NJ
1114 2001	Seminar, "CO ₂ air-sea flux variability: Ocean models and atmospheric inversions"
March 2004	Princeton Environmental Institute Postdoctoral Colloquium, Princeton NJ
	Seminar, "Local and global benefits of air pollution control in Mexico City"
December 2003	American Geophysical Union, Fall Meeting, San Francisco CA
	Oral, "Local and global benefits of air pollution control in Mexico City"
June 2003	World Congress on Risk, Brussels, Belgium
	Poster, "Mexico City Co-Benefits: Air pollution health risk reduction from GHG emission controls"
June 2003	MIT, Department of Earth, Atmospheric & Planetary Sciences, Cambridge MA
	Seminar, "Mexico City Co-Benefits: Air pollution health risk reduction from GHG emission controls"
May 2003	University of Wisconsin, Department of Atmospheric and Oceanic Sciences, Madison WI
	Invited seminar, "CO2 air-sea flux variability: ocean models and atmospheric inversions"
May 2003	JGOFS Open Science Conference, Washington DC
	Poster, "Mechanisms of CO ₂ air-sea flux variability in the North Atlantic and Equatorial Pacific"
April 2003	National University of Mexico, Center for Atmospheric Sciences, Mexico City
	Seminar, "Carbon sink variability from ocean models and atmospheric inversions" (in Spanish)
July 2002	Princeton University, Atmosphere and Ocean Sciences Program, Princeton NJ
	Invited seminar, "Interannual variability of air-sea fluxes of carbon dioxide and oxygen"
February 2002	AGU/ASLO/TOS Ocean Sciences 2002, Honolulu HI
D 1 2000	Poster, "Interannual variability in air-sea fluxes of CO ₂ and O ₂ "
December 2000	American Geophysical Union, Fall Meeting, San Francisco CA
F.1 2000	Oral, "A novel approach to export parameterization with application to air-sea fluxes of O ₂ and CO ₂ "
February 2000	American Geophysical Union, Ocean Sciences, San Antonio TX
I 1000	Oral, "Interannual variability of the air-sea flux of oxygen in the North Atlantic"
January 1999	JGOFS Arabian Sea Symposium, Bangalore, India
	Poster, "Interannual variability of the air-sea flux of oxygen in the North Atlantic" (best poster award)

TEACHING		
	Columbia University / Lamont Doherty Earth Observatory	New York NY / Palisades NY
2010 2021	Semester Courses	
2018, 2021	Humans and the Carbon Cycle (EESC GU4020)	
2010, 2020	Graduate / undergraduate course on the global carbon cycle and its co	onnections to climate.
2019, 2020	The Climate System (EESC UN2100) Intensive undergraduate survey course on climate science, with week	ly laboratory session
2019, 2021	Idealized Models of Climate Processes (EESC GU6926)	rly laboratory session.
2017, 2021	Graduate course on applying idealized models to coupled physical-chemical-climate processes.	
	University of Wisconsin - Madison	Madison, WI
	Semester Courses	
2016	Physical-Biogeochemical Coupling in the Ocean and Lakes (ATM Oc	
	Mechanisms of physical-biogeochemical coupling in oceans and lake	es; hands-on data and modeling
2015, 2016	The Science of Climate Change (ATM OCN 323)	
	Quantitative treatment of climate processes for science and engineering	ng, non-AOS, students
2013,15,17	Global Warming: Science and Impacts (ATM OCN 332)	
2007 2014	Undergraduate intermediate level course on the science and expected	impacts of climate change
2007-2014	Introduction to Physical Oceanography (ATM OCN 660) Graduate introduction to the physical structure and dynamics of the o	aaan
2004-2010	Global Climate Processes (ATM OCN 425)	ocean
2004-2010	Global energy balance, circulation of the atmosphere and ocean, clim	nate and climate modeling
2008-2016	Laboratory in Rotating Fluid Dynamics (ATM OCN 801, 615)	and and common the actual
	Use rotating tank and data analysis to elucidate key principles of geo	physical fluid dynamics
2005,06,14	Dynamics of the Atmosphere and Ocean II (ATM OCN 311)	
	Intermediate geophysical fluid dynamics for undergraduate majors	
	Semester Seminars	
2012, 2017	Ocean Biogeochemical Cycles (ATM OCN 965)	
Spring 2008	Threats to Wildlife from Global Warming (ATM OCN 980)	
Fall 2006	The Ocean Carbon Cycle (ATM OCN 925)	
Spring 2005,06	Senior Capstone Seminar (ATM OCN 405)	
Spring 2006	Climate Change: Science and Impacts (ATM OCN 980)	

ADVISING

Columbia University / Lamont Doherty Earth Observatory New York NY / Palisades N		
Graduate Stude		
2018-present	Lauren Moseley, PhD candidate in Earth and Environmental Sciences	
2020-present	Suki Wong, PhD candidate in Earth and Environmental Sciences	
2017-2020	Sean Ridge, PhD 2020 Earth and Environmental Sciences	alore of Colored in Francisco
2017-2020	Lucas Gloege, PhD 2020 Earth and Environmental Sciences (now post	doc at Columbia, Envi. Eng.)
	chers at Columbia University / Lamont Doherty Earth Observatory	
2021	Aditya Koduri (MS student in Data Science)	
2021	Tomislav Galjanic (MS student in Data Science)	
2020	Luke Stamell (Data Science Institute Scholar, MS student in Statistics))
2020	Rea Rustagi, undergraduate researcher (Class of 2022, Applied Math)	
2019	Monica Yan (Data Science Institute Scholar, MS student, now at JP M	organ)
2018	Leonard Boncenne, ENSTA ParisTech, summer student intern	C ,
University of W	isconsin - Madison	Madison WI
Graduate Stude		
2015-2017	Sean Ridge, MS AOS 2017 (PhD 2020 Columbia Earth and Environm	ental Sciences)
2014-2017	Lucas Gloege, MS AOS 2017 (PhD 2020 Columbia EES, now postdoo	
2016-2017	Collin Tuttle, MS AOS 2018 (now US Coast Guard)	,
2010-2015	Darren Pilcher, PhD AOS 2015 (now research scientist at NOAA PM)	EL/JISAO)
2010-2015	Haidi Chen, PhD AOS 2015 (postdoctoral fellow at Princeton Univers	
2011-2014	Alexis Ritzer, MS AOS 2014 (now at Luminant Energy Services)	
2010-2012	Jennifer Phillips, MS Envi. & Resources 2012 (Sr. Scientist, Governor	's Planning and Research, CA)
2009-2012	Jesse Roberts, MS AOS 2012	
2008-2010	Amanda Fay, MS AOS 2010 (now Researcher with McKinley)	
2008-2010	Valerie Bennington, PhD AOS 2010	
2005-2007	David Ullman, MS AOS 2008 (PhD Geoscience 2013, now Professor	at Northland College, WI)
Postdoctoral Sc	holors	
2010-11, 20-21	Dr. Val Bennington (UW-Madison CCR, 2012-14; Epic, 2014-20; now	v returning to science)
2009-2010	Dr. Colleen Mouw (now Professor, University of Rhode Island; 2016 I	
2007-2010	Dr. Nazan Atilla (now at UW-Madison Department of Zoology)	ECASE awardee)
2007-2009	Dr. Nobuaki Kimura (now at Kyushu University, Japan)	
2007	Dr. Nobuaki Kimura (now at Kyushu University, Japan)	
Undergraduate	Student Researchers at University of Wisconsin - Madison	
2015-2017	Gabriela Negrete (BS Chemistry 2017, now PhD student at Scripps wi	th Prof. A. Barton)
2012-2015	James Kralj (BS Microbiology 2015, MS 2018 U. Washington);	,
2012-2015	Melissa Breeden (BS AOS 2013, PhD AOS 2018, NOAA Global Char	nge Postdoc Fellow, 2019-2021)
2009-2010	Victoria Vasys (BS AOS 2010)	, , ,
2007-2008	Jennifer Koch (BS AOS '08, EPA'08-11, MS Portland State '13, Rhoc	leside & Harwell '14-present)
Visiting Studen	ts	
2008-2009	Nsikak Benson, Fulbright Scholar (Nigeria)	

STUDENT COMMITTEES (* = McKinley students)

Columbia University / Lamont Doherty Earth Observatory PhD Thesis Committees

New York NY / Palisades NY

Ms. Annie Leal (PhD expected 2026)

Ms. Lauren Moseley* (PhD expected 2023)

Ms. Suki Wong* (PhD expected 2022)

Ms. Colleen Baublitz (PhD expected 2021)

PhD Theses at Columbia University / Lamont Doherty Earth Observatory

Dr. Sean Ridge* (PhD Earth and Environmental Sciences 2020)

Dr. Lucas Gloege* (PhD Earth and Environmental Sciences 2020)

Dr. Takaya Uchida (PhD Earth and Environmental Sciences 2019)

PhD Theses at University of Wisconsin - Madison

Madison WI

Dr. Erin Thomas (PhD AOS 2017)

Dr. Cristian Martinez (PhD AOS 2016)

Dr. Malgorzata Golub (PhD Freshwater and Marine Science 2016)

Dr. Jiaxu Zhang (PhD AOS 2016)

Dr. Benjamin Kraemer (PhD Freshwater and Marine Science 2015)

Dr. Darren Pilcher* (PhD AOS 2015)

Dr. Haidi Chen* (PhD AOS 2015)

Dr. Katherine Holman (PhD AOS 2013)

Dr. Benjamin Sulman (PhD AOS 2012)

Dr. Justin Bagley (PhD AOS 2011)

Dr. Fung He (PhD AOS 2011)

Dr. Wei Liu (PhD AOS 2011)

Dr. Val Bennington* (PhD AOS 2010)

Dr. Claudia Cyganowski (PhD Astronomy 2010)

Dr. Jerry Tjiputra (PhD AOS 2007)

Masters Theses at University of Wisconsin - Madison

Madison WI

Mr. Lucas Gloege* (MS AOS 2017)

Mr. Sean Ridge* (MS AOS 2017)

Ms. Nicole Colasacco-Thumm (MS AOS 2015)

Ms. Amanda Stone (MS Freshwater and Marine Science, 2012)

Mr. Jesse Roberts* (MS AOS 2012)

Ms. Jennifer Phillips* (MS Environment and Resources 2012)

Ms. Alexis Santos-Ritzer* (MS AOS 2012)

Ms. Amanda Fay* (MS AOS 2010)

Dr. David Ullman* (MS AOS 2008; PhD Geoscience 2013)

Mr. William Ahue (MS AOS 2008)

Ms. Erin Hokanson (MS AOS 2006)

Delta Teaching & Learning Internship Advisees at University of Wisconsin - Madison

Madison WI

Dr. Andrew Winters (PhD AOS 2015)

PhD External Committees

PhD Committee Member

Dr. Cory McDonald (PhD Michigan Technological University, 2010)

PhD External Evaluator

Dr. Precious Mongwe (PhD University of Cape Town, 2018)

Dr. Peisheng Huang (PhD University of Western Australia, 2010)

2009 to present Lead developer for Carbon/Climate educational website, with interactive carbon budget applet English: carboncycle.ldoc.columbia.edu (Launch 12/2009, ~5,000 new sessions per month, 2019) Spanish: carboncycle_spanish.ldoc.columbia.edu (Launch 2/2011, ~2,000 sessions/month, 2019) Previously hosted at carboncycle.aos.wisc.edu and carboncycle.es.wisc.edu Roundtable on internalizing climate risk, Columbia University, New York NY Invited speaker for financial services workshop from Columbia Center on Sustainable Investment Carbon Dioxide Present and Future, Columbia University, New York NY Invited panelist for public event of LDEO/Earth Institute Open House Radio Universidad Nacional de Mar del Plata, Mar del Plata, Argentina Recorded interview, aired 27 June 2020, S. Buján (in Spanish; http://www.programa-ecos.com.ar) Hunter College High School, New York, NY Invited panelist for Earth Day programming (postponed) Field trip for Fieldston Ethical Culture High School, Columbia University, New York NY Hosted Climate and Weather class for rotating tank experiments College Club of Northern New Jersey, Ridgewood NJ Invited speaker "Carbon, climate and the oceans" LDEO Open House, Columbia University, New York / Palisades NY Speaker for "A year in a life of a scientist" Field trip for Randall School 4th Grade, Madison WI Hosted 56 4th graders for rotating tank experiments and "science on a sphere" presentations Perpetual Notion, WORT, Madison WI On-air interview on "Global warming snapshot for 2016", 22 Dec 2016 The Buzz, WORT, Madison WI On-air interview on "NASA contributions to Earth Science", 5 Dec 2016 Nevember 2016 Wisc TV 3 / Channel3000.com, Madison WI On-air interview on "The Record Warmth of 2016" (http://tinyurl.com/hy4pqb7), 16 Nov 2016 Nelson Institute and University of Wisconsin News Q&A on climate change "Explaining 'ternifying' trends of climate change: Q&A" J. Peek UN News, Science Daily, Insurance Journal, phys.org, Eureka Alert, Nature News & Views Various articles associated with	OUTREACH, II	NTERVIEWS and EDITORIALS
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April, Oct 2013	Panelist, IPCC Report and EPA Rules Bradley Learning Center, UW-Madison, Madison WI
•	Dinner speaker on climate change science and impacts
April 2013	Wisconsin Gazette, Shorewood WI
September 2012	"Extreme Wisconsin: Warmer, wetter, weirder weather ahead" L. Neff Women in Science and Engineering, UW-Madison, Madison WI
September 2012	Dinner speaker for living group supporting freshman women planning on STEM majors
April 2012	Aldo Leopold Nature Center, Monona WI
	Presenter on Antarctic response to climate change; Climate Education Center Grand Opening
November 2011	Wisconsin State Journal, Madison WI "Curiosities: Why does warm Coke go flat so much faster than cold Coke?" J. Sakai
September 2011	WORT, Perpetual Notion Machine, Madison WI
Septemoer 2011	Interview on air September 1, 2011 (archive.wort-fm.org/mp3/wort 110901 190001science.mp3)
July 2011	Voice of America, Washington DC
I1 2011	"Study: Ocean Less Able to Mitigate Climate Change" R. Skirble
July 2011	CNN International, London, UK "Ocean carbon sinks feeling the heat" M. Knight
June 2011	In Common, Nelson Institute for Environmental Studies, UW-Madison, Madison WI
	"Illuminating water's role in the carbon cycle and future climate" M. Lepisto
Jan-Aug 2011	Mini Workshop for Carbon Cycle Applet Lesson Plans, Madison WI
Ionuamz 2011	Organizer. Detailed G6-12 lesson plans developed to accompany carboncycle.aos.wisc.edu Climate Ambassadors Workshop, University of Wisconsin - Madison, Madison WI
January 2011	Lecturer, "Climate and Climate Change: Science Basics"
December 2010	NASA Television, http://www.youtube.com/watch?v=hXg4ugCajkE
	"NASA Science on the Road: Oceans, Carbon, and Climate" S. Cole
August 2010	Chicago Tribune, Chicago IL
	"Sink or source? Figuring Great Lakes' role in climate change" and "Could acidification threaten Great Lakes?" D. Lockwood
June 2010	Climate Ambassadors Workshop, University of Wisconsin - Madison, Madison WI
	Lecturer, "Climate and Climate Change: Science Basics"
April 2010	Whiteside Forum, Morrison IL
November 2009	Invited panelist for community forum on the oceans New York Times, Wisconsin Week, Science Daily, Bloomberg
November 2009	Reports, interviews on Nature Geoscience paper, Desai et al. (2009)
November 2009	Wisconsin Public Radio, Superior WI
	"Increasing winds over the Great Lakes" M. Simonson
September 2009	·
July 2009	"2050: Temperature to increase by 4 degrees" K. Mianulli AOS & CIMSS, University of Wisconsin - Madison, Madison WI
tuly 2009	Organizer and lead lecturer, Carbon Cycle and Climate Modeling - A Teacher's Workshop
July 2008	CIMSS, University of Wisconsin - Madison, Madison WI
A	Invited lecturer, Geosciences Time Scales and Global Climate Change Teacher's Workshop
April 2008	Daily Cardinal, University of Wisconsin - Madison, Madison WI "Report finds public transit key to curb global warming in state", C. Brace
January 2008	"The Pulse" WTDY 1670AM, Madison WI
·	Interview with host S. Wisniewski on the science of global climate change (on air 1/20/08)
October 2007	Wisconsin State Journal, Madison WI
October 2007	"Why is The Ocean Salty", J. Sakai. Also appeared in Science Daily Second Annual Wisconsin Climate Change Forum, Madison, WI
October 2007	Invited panelist
July 2007	CIMSS, University of Wisconsin - Madison, Madison WI
	Invited lecturer, Remote Sensing Applications in the Geosciences Teacher's Workshop
June 2007	Capital Times, Madison WI "Local scientist calls global warming theory 'hooey", S.K. Derby
	Local scientist cans global warning dicory hoocy, S.K. Derby

February 2007	Capital Times, Madison WI
-	"City lakes offer lesson in climate change – The winter's freeze was second latest", A. Weier
October 2006	First Annual Wisconsin Climate Change Forum, Madison WI
	Invited panelist
September 2006	Women In Science and Engineering, UW-Madison, Madison WI
	Dinner speaker for living group supporting freshman women planning on STEM majors
September 2005	The Why Files, Madison WI
	"Hurricanes: The Heat is On", D. Tannebaum
March 2005	Capital Times, Madison WI
	"Global warming debate is over, UW prof says – Calls new study as solid proof as that smoking
	causes cancer", A. Nathans
March 2005	Daily Cardinal, University of Wisconsin - Madison, Madison WI
	"Greenhouse gases further implicated in global warming", P. Dohnal