

Allen H. Goldstein - Curriculum Vita (Updated June 2021)

Professor and MacArthur Foundation Chair

University of California, Berkeley (UCB)

Department of Environmental Science, Policy and Management

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Professional Experience

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| Associate Dean for Academic Affairs, Rausser College of Natural Resources, UCB | 2020-present |
| Professor, Department of Environmental Science, Policy, and Management, UCB | 2005-present |
| Professor, Department of Civil and Environmental Engineering, UCB | 2008-present |
| Visiting Professor, Max Planck Institute for Chemistry, Germany | 2019 |
| Visiting Professor, Hong Kong Polytechnic Institute, Hong Kong | 2018-2019 |
| Visiting Professor, Institute of Atmos. Sciences and Climate (CNR-ISAC), Italy | 2018 |
| Chair, Department of Environmental Science, Policy, and Management, UCB | 2007-2010 |
| Visiting Professor, Royal Melbourne Institute of Technology, Australia | 2005-2006 |
| Visiting Professor, CSIRO Marine and Atmospheric Research, Australia | 2005-2006 |
| Associate Professor of Biogeochemistry, University of California at Berkeley | 2001-2005 |
| Assistant Professor of Biogeochemistry, University of California at Berkeley | 1996-2001 |
| Faculty Chemist, Lawrence Berkeley National Laboratory | 1996-present |
| Harvard Division of Applied Sciences Post-Doctoral Fellow | 1994-1995 |
| National Oceanographic and Atmospheric Administration Visiting Scientist | 1994 |

Education

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| PhD | Chemistry | Harvard University | 1994 |
| MA | Chemistry | Harvard University | 1991 |
| BS | Chemistry | University of California at Santa Cruz | 1989 |
| BA | Politics | University of California at Santa Cruz | 1989 |

Honors and Awards

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| Award for Creative Advances in Environmental Science and Technology, American Chemical Society (ACS) | 2021 |
| Elected Fellow, American Association for Aerosol Research (AAAR) | 2020 |
| John D. and Catherine T. MacArthur Foundation Chair (Endowed Chair, UCB) | 2019-2024 |
| Yoram J. Kaufman Outstanding Research and Unselfish Cooperation Award, American Geophysical Union (AGU) | 2019 |
| Elected Fellow, American Association for the Advancement of Science (AAAS) | 2018 |
| David Sinclair Award, American Association for Aerosol Research (AAAR) | 2018 |
| Fulbright Scholar (Italy) | 2018 |
| Alexander Von Humboldt Research Award (Humboldt Prize) | 2017 |
| Highly Cited Researcher, Clarivate Analytics (4 years) | 2017-2020 |
| Camille and Henry Dreyfus Environmental Chemistry Mentor Award | 2012 |
| AEESP Plenary Lecturer, American Association for Aerosol Research | 2012 |
| Norbert Gerbier-MUMM International Award | 2012 & 2004 |
| Elected Fellow, American Geophysical Union (AGU) | 2011 |
| Miller Research Professor UC Berkeley | 2010-2011 |
| Fulbright Senior Scholar (Australia) | 2005 |

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| Senator Harry E. Drobish Award for innovative educational activities | 2004 |
| Award for Extensive University Service | 1999-2000 |
| Hellman Foundation Junior Faculty Award for Excellence in Research | 1997 |
| Graduate Fellowship for Global Climate Change Studies (DOE) | 1991-1994 |
| Highest Honors in Chemistry – UC Santa Cruz | 1989 |

Research Program: Atmospheric chemistry of gases and aerosols, air pollution, biosphere-atmosphere exchange of radiatively and chemically active trace species, and development and application of novel instrumentation to investigate the organic chemistry of earth's atmosphere. Field campaigns, controlled laboratory experiments, and modeling activities covering indoor, outdoor urban, rural, regional, intercontinental, and global scale studies of ozone, aerosols, and their gas phase precursors. Comprehensive research questions include: *What controls atmospheric concentrations of greenhouse gases, volatile organic compounds, photochemical oxidants, and aerosols? How do biological systems interact chemically and physically with earth's atmosphere?*

Working Groups & Advisory Committees (selected examples)

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| National Academy of Sciences Committee “Emerging Science on Indoor Chemistry” | 2020-2022 |
| Advisory Board, Atmosphere and Climate Competence Center (ACCC) Science and Impact, Helsinki, Finland | 2020- |
| Advisory Committee, Max Planck Institute for Chemistry, Indoor Chemical Human Emissions and Reactivity (ICHEAR) project | 2019-2022 |
| Advisory Committee, Hong Kong Polytechnic University, Photochemical Air Pollution in Highly Urbanized Subtropical Regions project | 2018-2023 |
| External Review Committee, UC Irvine School of Physical Sciences | 2017 |
| Board of Directors American Association of Aerosol Research | 2016-2019 |
| National Academy of Sciences Committee “Future of Atmospheric Chemistry Research” | 2014-2016 |
| Co-Chair International Global Atmospheric Chemistry (IGAC) Project | 2013-2016 |
| IGAC Scientific Steering Committee | 2009-2016 |
| LBNL/DOE Executive Committee for International Conference on Carbonaceous Particles in the Atmosphere | 2015 |
| DOE/PNNL Environmental Molecular Sciences Laboratory Atmospheric Aerosol Science Advisory Panel | 2014 |
| External Review Committee UC Davis Air Quality Research Center | 2014 |
| Scientific Program Committee, Co-Lead Investigator Southern Oxidant and Aerosol Study (SOAS) | 2013 |
| Chair IGAC 2012 Open Science Conference, Beijing, China | 2012 |
| Co-Lead Scientist Bakersfield Supersite for CALNEX | 2011 |
| Co-Lead Scientist, initiator, and organizer (with R. Cohen) Biosphere Effects on Aerosols and Photochemistry Experiment (BEARPEX) | 2007-2009 |
| Blodgett Forest AmeriFlux site initiator and scientific lead investigator | 1997-2009 |
| NOAA ITCT 2K4 Science Team Leader for Ground Site, Chebogue Pt | 2004 |
| NOAA ITCT 2K2 Science Team Leader for Ground Site, Trinidad Head | 2002 |
| NEON – NSF Program Planning Committee | 2002 |
| FLUXNET Flux Synthesis Committee and Science Team | 2000 |

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| NIGEC Planning Workshop Effects of Air Pollution on Ecosystems | 2000 |
| Carbon Management Working Group (Department of Energy, LBNL) | 1998 |

Professional Societies

Fellow, American Geophysical Union (AGU)
 Fellow, American Association for the Advancement of Science (AAAS)
 Fellow, American Association of Aerosol Research (AAAR)
 Member, American Chemical Society (ACS)
 Member, International Society of Indoor Air Quality and Climate (ISIAQ)

Editorial Activities

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| Editorial Advisory Board, Environmental Science & Technology (ACS) | 2017-2023 |
| Associate Editor, Elementa | 2016-present |
| American Association for Aerosol Research Publications Committee | 2011-2014 |
| Editor, Atmospheric Chemistry and Physics, Special Issue “Summertime boreal forest atmospheric chemistry and physics” (HUMPPA-COPEC) | 2010 |
| Editor, Atmospheric Chemistry and Physics, Special Issue “Amazonian Aerosol Characterization Experiment (AMAZE-08) | 2008 |
| Associate Editor for Journal of Geophysical Research - Biogeosciences | 2004-08 |
| Editor for Biogeosciences (EGU) | 2003-07 |
| Associate Editor for Ecological Applications (ESA) | 2002-2005 |

Publications

Google Scholar Citation statistics: h-index 102, i10-index 343, citations ~ 43,000

#current or former member of Goldstein Group at UC Berkeley

386. #Wernis, R. A., N.M. Kreisberg, #R.J. Weber, #Y. Liang, J. Jayne, S. Hering, and A.H. Goldstein, Development of an In Situ Dual-Channel Thermal Desorption Gas Chromatography Instrument for Consistent Quantification of Volatile, Intermediate Volatility and Semivolatile Organic Compounds, *Atmos. Meas. Tech. Discuss.*, <https://doi.org/10.5194/amt-2021-156>, in review, 2021.
385. Kim, J., A.H. Goldstein, R. Chakraborty, K. Jardine, #R. Weber, P.O. Sorensen, S. Wang, B. Faybishenko, #P.K. Misztal and E.L. Brodie, Measurement of Volatile Compounds for Real-Time Analysis of Soil Microbial Metabolic Response to Simulated Snowmelt. *Front. Microbiol.*,12:679671. doi: 10.3389/fmicb.2021.679671, 2021.
384. #Katz, E.F., H. Guo, P. Campuzano-Jost, D.A. Day, W.L. Brown, E. Boedicker, M. Pothier, D.M. Lunderberg, S.Patel, K. Patel, P.L. Hayes, A. Avery, L. Hildebrandt Ruiz, A.H. Goldstein, M.E. Vance, D.K. Farmer, J.L. Jimenez and P.F. DeCarlo, Quantification of Cooking Organic Aerosol in the Indoor Environment Using Aerodyne Aerosol Mass Spectrometers, *Aerosol Science and Technology*, DOI: 10.1080/02786826.2021.1931013, 2021.
383. #Lunderberg, D.M., #P.K. Misztal, #Y. Liu, #C. Arata, #Y. Tian, #K. Kristensen, #R.J. Weber, W.W. Nazaroff, and A.H. Goldstein, High-Resolution Exposure Assessment for Volatile Organic Compounds in Two California Residences, *Environmental Science & Technology*, doi.org/10.1021/acs.est.0c08304, Article ASAP, 2021.
382. #Lunderberg, D.M., #Y. Liu, #P.K. Misztal, #C. Arata, #Y. Tian, #K. Kristensen, W.W. Nazaroff, and A.H. Goldstein, Intake fractions for volatile organic compounds in two occupied California residences, *Environmental Science & Technology Letters*, doi.org/10.1021/acs.estlett.1c00265, Article ASAP, 2021.

381. #Drozd, G.T., #R.J. Weber, and A.H. Goldstein, Highly resolved composition during diesel evaporation with modeled ozone and secondary aerosol formation: Insights for pollutant formation from evaporative IVOC sources, *Environmental Science & Technology*, doi.org/10.1021/acs.est.0c08832, 55, 9, 5742–5751, 2021.
380. #Liang, Y., #C.N. Jen, #R.J. Weber, #P.K. Misztal, and A.H. Goldstein, Chemical Composition of PM_{2.5} in October 2017 Northern California Wildfire Plumes, *Atmos. Chem. Phys.*, doi.org/10.5194/acp-21-5719-2021, 21, 5719–5737, 2021.
379. #Liu, Y., #P.K. Misztal, #C. Arata, C.J. Weschler, W.W. Nazaroff, and A.H. Goldstein, Observing ozone chemistry in an occupied residence, *Proceedings of the National Academy of Sciences*, DOI: 10.1073/pnas.2018140118, 118 (6), 2021.
378. Zhang, M., #J. Xiong, #Y. Liu, #P.K. Misztal, and A.H. Goldstein, Physical–Chemical Coupling Model for Characterizing the Reaction of Ozone with Squalene in Realistic Indoor Environments, *Environmental Science & Technology*, DOI: 10.1021/acs.est.0c06216, 55, 3, 1690–1698, 2021.
377. Goldstein, A.H., W.W. Nazaroff, C.J. Weschler, J. Williams, How Do Indoor Environments Affect Air Pollution Exposure?, *Environmental Science & Technology*, DOI: 10.1021/acs.est.0c05727, 55, 1, 100–108, 2021.
366. Brown, W.L., D.A. Day, H. Stark, D. Pagonis, J.E. Krechmer, X. Liu, D.J. Price, E.F. Katz, P.F. DeCarlo, C.G. Masoud, L. Hildebrandt Ruiz, #C. Arata, #D.M. Lunderberg, A.H. Goldstein, D.K. Farmer, M.E. Vance, J.L. Jimenez, Real-time organic aerosol chemical speciation in the indoor environment using extractive electrospray ionization mass spectrometry, *Indoor Air*, doi.org/10.1111/ina.12721, 31 (1), 141–155, 2021.
365. #Tian Y, C. Arata, E. Boedicker, #D.M. Lunderberg, S. Patel, S. Sankhyan, #K. Kristensen, #P.K. Misztal, D.K. Farmer, M. Vance, A. Novoselac, W.W. Nazaroff, and A.H. Goldstein, Indoor emissions of total and fluorescent supermicron particles during HOMEChem, *Indoor Air*, doi.org/10.1111/ina.12731, 31 (1), 88–98, 2021.
364. Heald, C.L., J. de Gouw, A.H. Goldstein, A.B. Guenther, P.L. Hayes, W. Hu, #G. Isaacman-VanWertz, J.L. Jimenez, F.N. Keutsch, A.R. Koss, #P.K. Misztal, B. Rappenglück, J.M. Roberts, P.S. Stevens, R.A. Washenfelder, C. Warneke, and C.J. Young, Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex), *Environmental Science & Technology*, DOI: 10.1021/acs.est.0c05027, 54 (23), 14923–14935, 2020.
363. Lyu, X., H. Guo, D. Yao, H. Lu, Y. Huo, W. Xu, N. Kreisberg, A.H. Goldstein, J. Jayne, D. Worsnop, Y. Tan, S-C. Lee, T. Wang, In Situ Measurements of Molecular Markers Facilitate Understanding of Dynamic Sources of Atmospheric Organic Aerosols, *Environmental Science & Technology*, 54, 18, 11058–11069, doi.org/10.1021/acs.est.0c02277, 2020.
362. Wang, Q., X. He, M. Zhou, D. Huang, L. Qiao, S. Zhu, Y. Ma, H. Wang, L. Li, C. Huang, X.H.H. Huang, W. Xu, D.R. Worsnop, A.H. Goldstein, H. Guo, and J.Z. Yu, Hourly Measurements of Organic Molecular Markers in Urban Shanghai, China: Primary Organic Aerosol Source Identification and Observation of Cooking Aerosol Aging, *ACS Earth Space Chem.*, 4, 1670–1685, doi.org/10.1021/acsearthspacechem.0c00205, 2020.
361. Fulgham, S.R., D.B. Millet, H.D. Alwe, A.H. Goldstein, S. Schobesberger, and D.K. Farmer, Surface Wetness as an Unexpected Control on Forest Exchange of Volatile Organic Acids, *Geophysical Research Letters*, V47, 15, doi.org/10.1029/2020GL088745, 2020.
360. He, H., Q. Wang, X.H. Hilda Huang, D. Huang, M. Zhou, L. Qiao, S. Zhu, Y. Ma, H. Wang, L. Li, C. Huang, W. Xu, D. Worsnop, A.H. Goldstein, J.Z. Yu, Hourly Measurements of Organic Molecular Markers in Urban Shanghai, China: Observation of Enhanced Formation of Secondary Organic Aerosol during Particulate Matter Episodic Periods, *Atmos. Environ.*, V240, doi.org/10.1016/j.atmosenv.2020.117807, 2020.
359. Pastorello, G., C. Trotta, E. Canfora, et al. (287 authors including A.H. Goldstein), The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data, *Scientific Data*, 7, 225, doi.org/10.1038/s41597-020-0534-3, 2020.

358. Schmedding, R., Q.Z. Rasool, Y. Zhang, H.O.T. Pye, #H. Zhang, Y. Chen, J.D. Surratt, F.D. Lopez-Hilfiker, J.A. Thornton, A.H. Goldstein, and W. Vizuete, Predicting secondary organic aerosol phase state and viscosity and its effect on multiphase chemistry in a regional-scale air quality model, *Atmos. Chem. Phys.*, 20, 8201–8225, doi.org/10.5194/acp-20-8201-2020, 2020.
357. #Lunderberg, D.M., #K. Kristensen, #Y. Tian, #C. Arata, #P.K. Misztal, #Y. Liu, N.M. Kreisberg, E.F. Katz, P.F. DeCarlo, S. Patel, M.E. Vance, W.W. Nazaroff, and A.H. Goldstein, Surface emissions modulate indoor SVOC concentrations through volatility-dependent partitioning, *Environmental Science & Technology*, 54, 11, 6751–6760, DOI: 10.1021/acs.est.0c00966, 2020.
356. Patel, S., S. Sankhyan, E.K. Boedicker, P.F. DeCarlo, D.K. Farmer, A.H. Goldstein, E.F. Katz, W.W. Nazaroff, #Y. Tian, J. Vanhanen, and M.E. Vance, Indoor particulate matter during HOMEChem: Concentrations size distributions, and exposures, *Environmental Science & Technology*, 54, 12, 7107–7116, DOI: 10.1021/acs.est.0c00740, doi/10.1021/acs.est.0c00805, 2020.
355. #Yee, L., #G. Isaacman-VanWertz, #R. Wernis, N. Kreisberg, M. Glasius, M. Riva, J. Surratt, S. de Sa, S. Martin, M.L. Alexander, B. Palm, W. Hu, P. Campuzano-Jost, D. Day, J. Jimenez, Y. Liu, P. Misztal, P. Artaxo, J. Viegas, A. Manzi, R. Souza, E. Edgerton, K. Baumann, A.H. Goldstein, Natural and anthropogenically-influenced isoprene oxidation in the Southeastern U.S.A. and central Amazon, *Environ. Sci. Technol.*, 54, 10, 5980–5991, 2020.
354. Clifton, O.E., F. Paulot, A.M. Fiore, L.W. Horowitz, G. Correa, C.B. Baublitz, #S. Fares, I. Goded, A.H. Goldstein, C. Gruening, A.J. Hogg, B. Loubet, I. Mammarella, J.W. Munger, L. Neil, P. Stella, J. Uddling, T. Vesala, E. Weng, Influence of dynamic ozone dry deposition on ozone pollution, *Journal of Geophysical Research*, V125, 8, doi.org/10.1029/2020JD032398, 2020.
353. #Lee, B., E. D’Ambro, F. Lopez-Hilfiker, S. Schobesberger, C. Mohr, M. Zawadowicz, J. Liu, J. Shilling, W. Hu, B. Palm, J. Jimenez, L. Hao, A. Virtanen, #H. Zhang, A.H. Goldstein, H. Pye, J. Thornton, Resolving ambient organic aerosol formation and aging pathways with simultaneous molecular composition and volatility observations, *ACS Earth and Space Chemistry*, 4, 3, 391–402, doi.org/10.1021/acsearthspacechem.9b00302, 2020.
352. Wang, C., D.B. Collins, #C. Arata, A.H. Goldstein, J.M. Mattila, D.K. Farmer, L. Ampollini, P.F. DeCarlo, A. Novoselac, M.E. Vance, W.W. Nazaroff, J.P.D. Abbatt, Surface reservoirs dominate dynamic gas-surface partitioning of many indoor air constituents, *Science Advances*, 6(8), eaay8973, 10.1126/sciadv.aay8973, 2020.
351. Salazar, J.R., B.T. Cartledge, J.P. Haynes, R. York-Marini, A.L. Robinson, #G.T. Drozd, A.H. Goldstein, S.C. Fakra, and B.J. Majestic, Water-soluble iron emitted from vehicle exhaust is linked to primary speciated organic compounds, *Atmos. Chem. Phys.*, 20, 1849–1860, doi.org/10.5194/acp-20-1849-2020, 2020.
350. Mattila, J., P. Lakey, M. Shiraiwa, C. Wang, J. Abbatt, #C. Arata, A.H. Goldstein, L. Ampollini, E. Katz, P. DeCarlo, S. Zhou, T. Kahan, F. Cardoso Saldaña, L. Hildebrandt Ruiz, A. Abeleira, E. Boedicker, M. Vance, D. Farmer, Multiphase chemistry controls inorganic chlorinated and nitrogenated compounds in indoor air during bleach cleaning, *Environ. Sci. Technol.*, 43, 1730–1739, doi.org/10.1021/acs.est.9b05767, 2020.
349. #Arata, C., N. Heine, N. Wang, #P.K. Misztal, P. Wargocki, G. Bekö, J. Williams, W. W. Nazaroff, K.R. Wilson, A.H. Goldstein, Heterogeneous Ozonolysis of Squalene: Gas-Phase Products Depend on Water Vapor Concentration, *Environ. Sci. Technol.*, 53, 24, 14441–14448, doi.org/10.1021/acs.est.9b05957, 2019.
348. Hatch, L., #C.N. Jen, N.M. Kreisberg, V. Selimovic, R. Yokelson, C. Stamatis, R.A. York, D. Foster, S.L. Stephens, A.H. Goldstein, K.C. Barsanti, Highly speciated measurements of terpenoids emitted from laboratory and mixed-conifer forest prescribed fires, *Environ. Sci. Technol.*, <https://doi.org/10.1021/acs.est.9b02612>, 2019.

347. Farmer, D.K., M.E. Vance, J.P. Abbatt, A. Abeleira, M.R. Alves, [#]C. Arata, E. Boedicker, S. Bourne, F. Cardoso-Saldaña, R. Corsi, P.F. DeCarlo, A.H. Goldstein, V.H. Grassian, L. Hildebrandt Ruiz, J.L. Jimenez, T.F. Kahan, E.F. Katz, J.M. Mattila, W.W. Nazaroff, A. Novoselac, O'Brien, V.W. Or, R.E. S. Patel, S. Sankhyan, P. S. Stevens, Y. Tian, M. Wade, C. Wang, S. Zhou, Y. Zhou, Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry, *Environmental Science: Processes and Impacts*, doi: 10.1039/C9EM00228F, 2019.
346. [#]Lunderberg, D., [#]K. Kristensen, [#]Y. Liu, [#]P. Misztal, [#]Y. Tian, [#]C. Arata, [#]R. Wernis, N. Kreisberg, W.W. Nazaroff, and A.H. Goldstein, Characterizing Airborne Phthalate Concentrations and Dynamics in a Normally Occupied Residence, *Environ. Sci. Technol.*, 53, 137,337-7346, DOI: 10.1021/acs.est.9b02123, 2019.
345. [#]Xiong, J., Z. He, [#]X.Tang, [#]P.K. Misztal, and A.H. Goldstein, Modeling the Time-Dependent Concentrations of Primary and Secondary Reaction Products of Ozone with Squalene in a University Classroom, *Environ. Sci. Technol.*, 53, 14, 8262-8270, DOI: 10.1021/acs.est.9b02302, 2019.
344. Ampollini, L., E.F. Katz, S. Bourne, [#]Y. Tian, A. Novoselac, A.H. Goldstein, G. Lucic, M.S. Waring, and P. DeCarlo, Observations and Contributions of Real-time Indoor Ammonia Concentrations During HOMEChem, *Environ. Sci. Technol.*, DOI: 10.1021/acs.est.9b02157, Just Accepted, 2019.
343. Riva, M., Y. Chen, Y. Zhang, Z. Lei, N. Olson, H.C. Boyer, S. Narayan, [#]L.D. Yee, H. Green, T. Cui, Z. Zhang, K.D. Baumann, M. Fort, E.S. Edgerton, S. Budisulistiorini, C.A. Rose, I. Ribeiro, R.L. Oliveira, E. Santos, S. Szopa, C. Machado, Y. Zhao, E. Alves, S. de Sa, W. Hu, E. Knipping, S. Shaw, S. Duvoisin Junior, R.A.F. de Souza, B.B. Palm, J.L. Jimenez, M. Glasius, A.H. Goldstein, H.O.T. Pye, A. Gold, B.J. Turpin, W. Vizuete, S.T. Martin, J. Thornton, C.S. Dutcher, A.P. Ault, and J.D. Surratt, Increasing Importance of Organosulfur Species for Aerosol Properties and Future Air Quality, *Environ. Sci. Technol.*, DOI: 10.1021/acs.est.9b01019, Just Accepted, 2019.
342. [#]Liu, Y., [#]P.K. Misztal, [#]J. Xiong, [#]Y. Tian, [#]C. Arata, [#]R.J. Weber, W.W. Nazaroff, A.H. Goldstein, Characterizing sources and emissions of volatile organic compounds in a northern California residence using space- and time-resolved measurements, *Indoor Air*, 29 (4), 630–644, DOI: 10.1111/ina.12562, 2019.
341. [#]Kristensen, K., [#]D.M. Lunderberg, [#]Y. Liu, [#]P.K. Misztal, [#]Y. Tian, [#]C. Arata, W.W. Nazaroff, A.H. Goldstein, Sources and Dynamics of Semivolatile Organic Compounds in a Single-Family Residence in Northern California, *Indoor Air*, 29 (4), 645–655, DOI: 10.1111/ina.12561, 2019.
340. [#]Gray, E., S. Gilardoni, D. Baldocchi, B.C. McDonald, M.C. Facchini, and A.H. Goldstein, Impact of Air Pollution Controls on Radiation Fog Frequency in the Central Valley of California, *Journal of Geophysical Research: Atmospheres*, 124, doi: 10.1029/2018JD029419, 2019.
339. Shrivastava, M., M.O. Andreae, P. Artaxo, H.M.J. Barbosa, L.K. Berg, J. Brito, J. Ching, R.C. Easter, J. Fan, J.D. Fast, Z. Feng, J.D. Fuentes, M. Glasius, A.H. Goldstein, E.G. Alves, H. Gomes, D. Gu, A. Guenther, S.H. Jathar, S. Kim, Y. Liu, S. Lou, S.T. Martin, V.F. McNeill, A. Medeiros, S.S. de Sá, J.E. Shilling, S.R. Springston, R.A.F. Souza, J.A. Thornton, [#]G. Isaacman-VanWertz, [#]L.D. Yee, R. Ynoue, R.A. Zaveri, A. Zelenyuk, and C. Zhao, Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest, *Nature Communications*, 10, 1046, <https://doi.org/10.1038/s41467-019-08909-4>, 2019.
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337. [#]Jen, C. N., Hatch, L. E., Selimovic, V., Yokelson, R. J., Weber, R., Fernandez, A. E., Kreisberg, N. M., Barsanti, K. C., and Goldstein, A. H.: Speciated and total emission factors of particulate organics from burning western US wildland fuels and their dependence on combustion efficiency, *Atmos. Chem. Phys.*, 19, 1013-1026, <https://doi.org/10.5194/acp-19-1013-2019>, 2019.

336. de Sá, S. S., L.V. Rizzo, B.B. Palm, P. Campuzano-Jost, D.A. Day, #L.D. Yee, #R. Wernis, #G. Isaacman-VanWertz, J. Brito, S. Carbone, Y.J. Liu, A. Sedlacek, S. Springston, A.H. Goldstein, H.M.J. Barbosa, M.L. Alexander, P. Artaxo, J.L. Jimenez, and S.T. Martin, Contributions of biomass-burning, urban, and biogenic emissions to the concentrations and light-absorbing properties of particulate matter in central Amazonia during the dry season, *Atmos. Chem. Phys.*, 19, 7973-8001, <https://doi.org/10.5194/acp-19-7973-2019>, 2019.
335. #Drozd, G.T., Y. Zhao, G. Saliba, B. Frodin, C. Maddox, M.-C. O. Chang, H. Maldonado, S. Sardar, R.J. Weber, A.L. Robinson, and A.H. Goldstein, Detailed Speciation of Intermediate Volatility and Semivolatile Organic Compound Emissions from Gasoline Vehicles: Effects of Cold-Starts and Implications for Secondary Organic Aerosol Formation, *Environ. Sci. Technol.*, 53 (3), pp 1706–1714, DOI: 10.1021/acs.est.8b05600, 2019.
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Patents

US Patent 8,088,627 B2, On-Line Gas Chromatographic Analysis of Airborne Particles (with Susanne Hering)

Research Grants and Contracts

Funded projects since starting at Berkeley in 1996.

| SPONSOR | TITLE | PI | DATES |
|---|--|---------------------------|--------------|
| National Oceanic and Atmospheric Administration | A multispecies approach to investigate the changing cocktail of atmospheric urban carbon | Goldstein | 2020-2023 |
| California Air Resources Board | San Joaquin Valley airborne flux measurement of volatile organic compounds and oxides of nitrogen | Goldstein | 2021-2023 |
| California Air Resources Board | Airborne flux measurement of volatile organic compounds and oxides of nitrogen in California | Goldstein | 2020-2022 |
| California Air Resources Board | Understanding and Mitigating Wildfire Risk in California | Goldstein | 2020-2022 |
| Department of Energy (SBIR Phase I) | Aerosol Chemistry Field Calibration System | Kreisberg, Goldstein | 2020 |
| Department of Energy ASR | Advancing Molecular Level Understanding of Aerosol Processes in the Amazon and Integration with Modeling | Goldstein | 2019-2022 |
| Sloan Foundation | Renewal: Abundance, Sources, and Fates of Organic Chemicals in Residential Environments | Goldstein | 2019-2023 |
| Sloan Foundation | Chemistry of Homes: Environmental Microbes and Moisture | Adams, Misztal, Goldstein | 2019-2022 |
| Defense University Research Instrumentation Program (DURIP), Office of Naval Research (ONR) | Acquisition of Proton-Transfer-Reaction Time-Of-Flight Mass-Spectrometer (PTR-TOF-MS) for Airborne Volatile Organic Chemical Concentration and Flux Measurements | Goldstein | 2019-2020 |

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| National Science Foundation (CAICE-UCSD) | Laboratory Investigation of Oceanic Organic Emissions | Goldstein | 2019-2023 |
| National Science Foundation | RAPID: Northern California Wildfire Emissions and their Atmospheric Chemical Transformations in a Highly Populated Urban Region | Goldstein | 2018-2020 |
| South Coast Air Quality Management District | Chemically Explicit Measurements and Modeling of Diesel Fuel Evaporative Emissions | Goldstein | 2016-2017 |
| National Oceanic and Atmospheric Administration | Fires in the Western US: Analyzing Emitted Speciated Organic Trace Gases and Aerosols and their Atmospheric Chemical Transformations | Goldstein | 2016-2020 |
| Sloan Foundation | Abundance, Sources, and Fates of Organic Chemicals in Residential Environments | Goldstein | 2016-2020 |
| Sloan Foundation | To Characterize the Microbial Contributions to the Volatile Organic Compounds (VOCs) in the Residential Environments through Temporally and Spatially Resolved VOC Measurements. | Goldstein | 2016-2018 |
| Sloan Foundation | Berkeley Indoor Microbial Ecology Research Center (BIMERC), Renewal | Adams, Bruns, Goldstein, Nazaroff, Arens, Lindow, Taylor | 2016-2019 |
| Department of Energy ASR | Investigating Secondary Aerosol Processes in the Amazon through Molecular-level Characterization of Semi-Volatile Organics | Goldstein | 2015-2020 |
| Department of Energy (SBIR Phase II) | Comprehensive Time-Resolved Molecular Speciation of Gaseous and Particulate Organic Constituents in the Atmosphere (cTAG) | Hering and Goldstein | 2015-2019 |
| Energy Biosciences Institute | Organic Indicator Molecules of Biosourcing | Goldstein | 2016-2018 |
| Energy Biosciences Institute | Organic Indicator Molecules of Biosourcing | Goldstein | 2015 |
| Sloan Foundation | Berkeley Indoor Microbial Ecology Research Center (BIMERC), Renewal | Adams, Bruns, Goldstein, Nazaroff, Arens, Lindow, Taylor | 2014-2017 |
| FAPSEP | Interactions between urban and forest emissions in Manaus, Amazonia: The Brazilian component of GoAmazon | Artaxo, Goldstein one of nine international | 2013-2017 |

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| | | partners | |
| France Berkeley Fund | Understanding the Aerosol Composition from Oxidation of Long-chain Alkanes Using Novel Measurements and Modeling | Goldstein and Aumont | 2014-2015 |
| Department of Energy (SBIR Phase I) | Comprehensive, Time-Resolved Molecular Speciation of Gaseous and Particulate Organic Constituents in the Atmosphere | Hering and Goldstein | 2014 |
| Sloan Foundation | Emissions from Humans Affect Indoor Air Chemistry | Nazaroff and Goldstein | 2014-2015 |
| Biology Faculty Research Fund | Purchase of a volatile organic chemical (VOC) sample collection and introduction system | Goldstein | 2013-2014 |
| Presidential Chair Fellows Curriculum Enrichment Grant Program | Flipping the Classroom: Revitalizing Gateway Environmental Science Courses in ESPM | Potts, Firestone, Fung, Rhew, Goldstein | 2013-2014 |
| National Science Foundation | GoAmazon 2014 Contributions of Biogenic VOC to Organic Aerosol Formation in the Presence and Absence of Anthropogenic Pollution | Goldstein | 2013-2017 |
| California Air Resources Board | Improving Controls and Measurement Methods for Semi-Volatile Organic Compound Emissions from Light-Duty Vehicles | Goldstein, Robinson, and Kroll | 2013-2017 |
| NIH National Institute of Environmental Health Sciences | A Compact Instrument for Time-Resolved Airborne Particle Chemistry | Hering and Goldstein | 2012-2013 |
| Dreyfus Foundation | Environmental Chemistry of Atmospheric Organic Aerosol Formation | Goldstein | 2012-2016 |
| National Science Foundation, Earth Observing Laboratory OFAP | Request for C130 Aircraft, ISFS and ISS deployments in support of the Southern Oxidant and Aerosol Study (SOAS) | Guenther + multiple co-PI's | 2013 |
| National Science Foundation | Contribution of Biogenic VOC to Organic Aerosol Formation in the Presence and Absence of Anthropogenic Pollution | Goldstein | 2013-2017 |
| US Environmental Protection Agency | Emission, Fate, and Contribution of Biogenic Volatile Organic Compounds to Organic Aerosol Formation in the Presence of Anthropogenic Pollution: Measurements and Modeling During SOAS | Goldstein, Mak, and Guenther | 2013-2016 |
| California Air Resources Board | Source Speciation of Central Valley GHG Emissions using In-Situ Measurements of Volatile Organic Compounds | Goldstein and Fischer | 2012-2016 |
| Gulf of Mexico Research Initiative | Petroleum Evaporation at water surface and droplet dynamics in turbulence (through Gulf of Mexico Integrated Spill Response Consortium, Texas A&M) | Goldstein and Variano | 2011-2015 |

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| Department of Energy, Lawrence Berkeley National Laboratory | Discovery LDRD: Oxidative Transformations of Organic Aerosol | Wilson and Goldstein | 2011-2013 |
| National Science Foundation | RAPID: TAG-AMS Measurements of Organic Aerosol during the BEACHON-RoMBAS 2011 Field Campaign | Goldstein | 2011-2012 |
| UC Berkeley Faculty Fund for the Biological Sciences | Purchase of an Ultraviolet Aerodynamic Particle Sizer (UV-APS, TSI model 43314-05) for serving the Berkeley Indoor Microbial Ecology Research Center | Goldstein, Nazaroff | 2011 |
| Department of Energy (SBIR Phase II) | Ultrafine Particle Focusing System to Separate Particulate and Gaseous Constituents of Atmospheric Aerosols | Hering and Goldstein | 2011-2013 |
| US Environmental Protection Agency | Evaluation of Mobile Source Emissions and Trends Using Detailed Chemical and Physical Measurements | Harley, Goldstein, Wood | 2010-2013 |
| Alfred P. Sloan Foundation | To Investigate the Processes and Source Responsible for Indoor Microbial Communities and Indoor Air Quality | Bruns, Goldstein, Nazaroff, Arens, Lindow, Anderson, Taylor | 2010-2014 |
| California Air Resources Board | Improving Regional Biogenic VOC Emission Estimates Using an Airborne PTRMS Eddy Flux Measurement System | Goldstein and Guenther | 2010-2013 |
| National Oceanographic and Atmospheric Administration | Measurements of Speciated Organics in Aerosols by Thermal Desorption Aerosol GC/MS (TAG) during CalNex 2010 | Goldstein | 2010-2013 |
| National Science Foundation | Collaborative Research: Investigating SOA Formation in Central Los Angeles as Part of CalNex 2010 | Goldstein | 2010-2013 |
| California Air Resources Board | Hourly In Situ Quantitation of Organic Aerosol Marker Compounds during CalNex 2010 | Goldstein and Hering | 2010-2012 |
| California Air Resources Board | Characterization of the Atmospheric Chemistry in the Southern San Joaquin Valley and an Initial Comparison with Atmospheric Chemistry in the South Coast Air Basin | Cohen and Goldstein | 2009-2011 |
| Department of Energy (STTR Phase II) | An In-Situ Instrument to Assess the Concentration and Phase Partitioning of Atmospheric Semi-Volatile Organic Compounds | Hering and Goldstein | 2009-2011 |
| Department of Energy (SBIR Phase II) | Characterization of Particulate Organic via Combined Thermal Desorption Aerosol Gas Chromatography and Aerosol Mass Spectrometry (TAG-AMS) | Worsnop, Goldstein, and Hering | 2009-2011 |
| National Science | Biogenic VOC Emission and Organic | Goldstein | 2009-2012 |

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| Foundation | Aerosol Composition during the Biosphere Effects on Aerosol and Photochemistry Experiment (BEARPEX) | | |
| Department of Energy (STTR Phase I) | An In-Situ Instrument to Assess the Concentration and Phase Partitioning of Atmospheric Semi-Volatile Organic Compounds | Hering and Goldstein | 2008-2009 |
| Citrus Research Board | Measurements of Ozone Removal and VOC Emissions in Citrus Trees with Implications for Regional Air Quality | Goldstien and Karlik | 2007-2010 |
| California Air Resources Board | Flux measurements of biogenic precursors to ozone and particulate matter in the central valley | Goldstien and Karlik | 2007-2010 |
| University of California Division of Agricultural and Natural Resources | Automated measurements of organic aerosol composition in agricultural systems using thermal desorption GC | Karlik and Goldstein | 2007-2009 |
| California Air Resources Board | Process-Based Farm Emission Model for Estimating Volatile Organic Compound Emissions from California Dairies | Zhang, Mitloehner, Goldstein | 2006-2008 |
| Department of Energy (STTR Phases II) | Two-dimensional chromatography of atmospheric aerosols: A new in-situ instrument (additional supplement awarded for 2008-2009) | Hering and Goldstein | 2006-2009 |
| National Institute for Global Environmental Change (NIGEC) | Carbon exchange in a Ponderosa Pine Plantation: Strategies of Water use, Seasonality of Plant Physiology, and the Impact of Aerosols on Photosynthesis | Goldstein | 2004-2007 |
| Department of Energy (STTR Phase I) | Two-dimensional chromatography of atmospheric aerosols: A new in-situ instrument | Hering and Goldstein | 2005-2006 |
| Kearney Foundation | Controls of Canopy Photosynthetic Activity on Roots and Soil Carbon Dynamics in Ponderosa Pine and Oak/Savanna Ecosystems | Goldstein, Cheng, and Baldocchi | 2004-2006 |
| National Oceanographic and Atmospheric Administration | Measurements of organic trace gases by PTR-MS in support of ITCT-2K4 | Goldstein | 2004-2007 |
| California Air Resources Board | Hourly, In-situ Quantitation of Organic Aerosol Marker Compounds | Goldstein | 2004-2008 |
| Environmental Protection Agency | Guiding Future Air Quality Management in California: Sensitivity to Changing Climate | Harley, Cohen, and Goldstein | 2003-2007 |
| Department of Energy (SBIR Phases I and II) | Speciated Organic Composition of Atmospheric Aerosols: A New, In-Situ Instrument | Hering and Goldstein | 2002-2006 |
| National Oceanographic and Atmospheric Administration | Measurements of Speciated VOC's, OVOCs, and Halocarbons, by Automated in-Situ GC/FID/MSD in Support of the Intercontinental Transport of Chemicals in | Goldstein | 2002-2005 |

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| | the Troposphere Field Mission | | |
| National Science Foundation | Extending the use of PTR-MS for new measurements of volatile organic compounds and their oxidation products (2 funded proposals, phases I & II) | Goldstein | 2001-2010 |
| Kearney Foundation | Controls of Canopy Activities on Roots and Soil Carbon Dynamics in a Young Ponderosa Pine Forest | Goldstein, Cheng, and Qi | 2002-2003 |
| California Air Resources Board (CARB) | Quantifying Biogenic Terpene Emissions and assessing their importance for Secondary Aerosol Formation | Goldstein | 2001-2003 |
| UC Berkeley | Organized Research Unit (ORU), Atmospheric Science Center | Multiple PI's | 2000-2011 |
| California Air Resources Board | Whole Ecosystem Measurements of Biogenic Hydrocarbon Emissions | Goldstein | 1999-2002 |
| Department of Energy, Lawrence Berkeley National Laboratory | Atmospheric Change at the Interface Between Regional and Global Scales | Multiple PI's, Cohen et al. | 1999-2001 |
| National Aeronautics and Space Administration (Jointly with NSF 1998-2002) | An Isotopic Approach for Determining the Industrial Fraction of the Total CH ₃ Br Source to the Atmosphere (3 separate grants – Phases I, II, and III) | Goldstein | 1998-2005 |
| Environmental Protection Agency | Modeling Ozone Flux to Forests Across an Ozone Concentration Gradient in the Sierra Nevada Mts., CA | Goldstein | 1998-2002 |
| National Science Foundation (Jointly with NASA) | An Isotopic Approach for Determining the Industrial Fraction of the Total CH ₃ Br Source to the Atmosphere | Goldstein | 1998-2004 |
| National Atmospheric and Space Administration (Jointly with NSF) | An Isotopic Approach for Determining the Industrial Fraction of the Total CH ₃ Br Source to the Atmosphere | Goldstein | 1998-2006 |
| UC Berkeley, Agricultural Experiment Station | Linking Carbon and Water Cycling in Sierra Nevada Forests to the Dynamics of Ozone and Hydrocarbon Exchange | Goldstein | 1998-2009 |
| Hellman Family Faculty Fund | A Field-Based Study of Sierra Nevada Forest Response to Anthropogenic Ozone and Nitrogen Deposition | Goldstein | 1997-1999 |
| Environmental Protection Agency | Biogenic Hydrocarbon Emissions from a Sierra Nevada Ponderosa Pine Plantation | Goldstein | 1997-1998 |
| Department of Energy, Lawrence Berkeley National Laboratory | Global Climate Change: Regional Effects and Potential Consequences of Adaptation and Mitigation Measures in California | Multiple PI's, DePaolo et al. | 1997-1998 |
| UC Berkeley, Junior Faculty Research Grant | Impacts of Ozone Deposition on Carbon Uptake Rates in a Sierra Nevada Ponderosa Pine Plantation | Goldstein | 1997-1998 |
| UC Berkeley, | Determination of Volatile Organic Carbon | Goldstein | 1996-1998 |

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| Agricultural Experiment Station | Emission Rates from Biogenic Sources in California | | |
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Courses Taught

ESPM 2 -The Biosphere, 3 unit lower division lecture, 1996-2002

ESPM/EPS c180/CEE c106 -Air Pollution, 3 unit upper division lecture, 1997-2006, 2008, 2010-2018, 2020-2021

ES 10 –Introduction to Environmental Science, 3 unit lower division lecture, 2004-2012

ESPM 15 -Introduction to Environmental Science, 3 unit lower division lecture, 2014-2018

NR 24 -Freshman Seminar, 1 unit lower division seminar, 1999 – 2006, 2014

NR 84 -Sophomore Seminar, 1 unit lower division seminar, 2006, 2014

ESPM 98/198 - South American Rainforest, Sponsor -2 unit student taught course, 1999

Multiple Guest Lectures in undergraduate and graduate courses including, ESPM200a, ESPM 201a, ESPM 111, ESPM 102B, ESPM 100, ESPM 10, ESPM 12, ESPM 2, EPS 182, ES 10, Chemistry 295.

Students/Postdoctoral Researchers Supervised at UC Berkeley (Goldstein Students)

Ph.D. - Meredith Kurpius (graduated), Dylan Millet (graduated), Anita Lee (graduated), Brent Williams (graduated), Nicole Bouvier (graduated), Jeong-Hoo Park (graduated), Yunliang Zhao (graduated), Drew Gentner (graduated), Rachel Sellon (graduated), Abhinav Guha (graduated), Gabriel Isaacman (graduated), Jeremy Nowak (graduated), Ellyn Gray (graduated), Caleb Arata (graduated), Rebecca Wernis, Emily Barnes, Yutong Liang, David Lunderberg, Betty Molinier, Jennifer Ofodile, Erin Katz.

M.S. - Nathan Hultman (graduated), Mark Lamanna (graduated), Kevin Olson (graduated).

Postdoctoral Researchers - Jianwu Tang (finished), Ming Xu (finished), Jeanne Panek (finished), Gunnar Schade (finished), Markus Bill (finished), Sean McCauley (finished), Jean-Marc Fracheboud (finished), Allison Steiner (finished), Stephanie Shaw (finished), Dylan Millet (finished), Rupert Holzinger (finished), Laurent Misson (finished), Colette Heald (finished), Dan Matross (finished), Elena Ormeno (finished), David Worton (finished), Silvano Fares (finished), Arthur Chan (finished), Chris Ruehl (finished), Pawel Misztal (finished), Omar Amador (finished), Xiaochen Tang (finished), Nicole Richards (finished), Haofei Zhang (finished), Greg Drozd (finished), Coty Jen (finished), Yingjun Liu (finished), Lindsay Yee (finished), Kasper Kristensen (finished), Yilin Tian (finished), Caleb Arata, Deep Sengupta, Eva Pfannerstill.

Undergraduate Student Researchers - Kirill Deninzon (graduated), Anita Lee (graduated), Jeremy (graduated), Joshua Klein (graduated), Gavin McMeeking (graduated), Gabrielle Dreyfus (graduated), Max Henkle (graduated), Ben Lee (graduated), Camus Tung (graduated), Stephanie Wheeler (graduated), Steven Andrews (graduated), Amanda Frossard (graduated), Ya-Ting Liu (graduated), Raymond Lo (graduated), Joshua Pepper (graduated), Laura Davis (graduated), Sara Forestieri (graduated), Claire Davis (graduated), Luis Mendez (graduated), Kelsey Boulanger (graduated), Monika Decker (graduated), Jeffrey Wong (graduated), Irene Huang (graduated), Trevor Ford (graduated), Steve Shen (graduated), Joshua Moss (graduated), Hannah Hagen

(graduated), Michael Curtis (graduated), Ventura Rivera (graduated), Mariana Rivas (graduated), Alexander de Frondeville, Nathan Sweet.

Total Undergraduates – 32; Total Graduate students – 24; Total Postdocs – 33

PhD Dissertation, Guiding, Oral Qualifying Committees (Non-Goldstein Students)

Department of Environmental Science, Policy, and Management - Nancy Kiang, Ming Xu, Mathew Junyang, Cajun Elaine James, Stephanie Ewing, Jun Yang, Wendy Liu, Jessica Cruz, Simona Balan, Justine Owen, Jaclyn Hatala, Sarah Knox, Kyle Hemes

Department of Chemistry - Doug. Day, Patricia Cleary, Joel Thornton, Mark Perri, Rebecca Rosen, Jennifer Murphy, Michael Dillon, Timothy Bertram, Chika Minejima, Erin Conlisk, Idalia Perez, Annalise Van Wyngarden, Aaron Johnson, Anne Perring, Amanda Cole, Diana Phillips, Ashley Russell, Eleanor Browne, Chiu-Lin (Lance) Lee, Sally Pusede, Theodora Nah, Charity Garland, Micah Smith, Lauren Garofalo, Paul Romer, Tamara Sparks, Michael Jacobs, Ariana Kazez, Hannah Kenagy, Kaitlyn Lieschke

Department of Earth and Planetary Sciences - Charlie Koven, Katherine Hoag, Sunyoung Park, Kyung-Eun Min, Benjamin Nault, Xueling Liu

Department of Civil and Environmental Engineering - Greg Noblett, Beverly Colman, Nasim Mullen, Seema Bhangar, Dev Millstein, Timothy Dallmann, Brian McDonald, Chelsea Preble

Department of Geography – Triffid Abel, Mary Whelan, Yi Jiao

Department of Integrative Biology – Christopher Hobbs

School of Public Health, Environmental Health Sciences – Dian Garcia Gonzales

Other universities - Brian Giebel (U. Miami, RSMAS)

College, Department or other University Committees

University of California, Berkeley:

Co-Chair Working Group CNR-BSD

Privilege and Tenure (P&T)

Systemwide Assembly Representation Committee (AREP)

Divisional Council (DIVCO)

Faculty Budget Working Group (GIMLET)

Committee on Committees (COMS)

UC Berkeley Representative to Systemwide COMS (UCOC)

Academic Senate Committee on Undergraduate Scholarships and Honors and Financial Aid (CUSHFA)

CUSHFA Financial Aid Subcommittee

Academic Senate Committee on Undergraduate Scholarships and Honors (CUSH)

CUSH Regents and Chancellors Scholarship Subcommittee

CUSH Financial Aid Subcommittee

Berkeley Atmospheric Science Center (BASC) ORU Founding Core Member

BASC Director Faculty Search Committee

BASC Curriculum Committee

BASC Seminar Committee (many times)

BASC Symposium Organizing Committee (many times)

Executive Committee of the Environmental Council

Review Panel, UC President's Postdoctoral Fellowship Program
Affiliate of Energy and Resources Group, UC Berkeley
Ad-Hoc Review Committee for many promotion cases
Hellman Junior Faculty Award Review Committee
Freshman Seminar Program Dinner Series Faculty Participant
CEE Engineering for Sustainability Faculty Search Committee
Climate Readiness Institute Committee

College of Natural Resources:

Associate Dean for Academic Affairs
Chair of the Faculty, Executive Committee
Dean's Council
Chair Global Environment Theme House (developed residential program)
Member Executive Committee of the College of Natural Resources
Co-Director Center for Stable Isotope Biogeochemistry
Undergraduate Advisor, Undeclared Major Students
Environmental Science Major Faculty Advisory Board
Co-Chair and organizer for Blodgett Forest Research Symposium, multiple years
Exploratory Project on a Consortium for the Environment
Center for Stable Isotope Biogeochemistry Oversight Committee
Center for Forestry Scientific Advisory Council
Blodgett Forest Research Center Property Committee
Hilgard Hall Renovation Planning Committee
CNR Vision Committee

Department of Environmental Science, Policy, and Management:

Chair Department
Chair ESPM Council
Chair Space Committee
Fundraising Committee
Faculty Awards Committee
Biometeorology Faculty Search Committee
Ecosystem Sciences Divisional Plan Committee
Chair Biogeochemistry Subgroup of Divisional Plan Committee
Graduate Advisor & Graduate Admissions Committee
Proposal Committee for Soil Physics Faculty Position
Library Committee
Space Committee
Social Committee
Ad-Hoc Promotion Review Committees (many Tenure, Full Professor)
Lecturer Review Committees
Geochemistry Faculty Search Committee