

**Dr. Jennifer D. Small Griswold**  
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School of Ocean and Earth Sciences and Technology,  
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### Research Interests

Cloud Microphysics, Aerosols and Climate, Satellite Remote Sensing of Clouds and Aerosol

### Education

- University of California, Santa Cruz, Santa Cruz CA  
*Ph.D. Earth & Planetary Sciences*, June 2009  
Thesis: Observational studies of the microphysics and dynamics of warm cumulus
- Rutgers, The State University of New Jersey, New Brunswick, NJ  
*B.S. Meteorology*, May 2002  
*B.S. Environmental Science*, May 2002

### Research Experience

- *Assistant Professor*, Department of Meteorology, University of Hawaii at Mānoa, 2012-present  
Cloud microphysics, Aerosol-Cloud-Climate Interactions and Remote Sensing of Clouds and Aerosols

- *Postdoctoral Researcher*, NASA Jet Propulsion Laboratory, 2009-2012

Influence of aerosols on clouds, precipitation and climate using multi-satellite data analyses and application of satellite observations to evaluate global climate.

- *Graduate Student Researcher*, UC Santa Cruz, 2002-2009

Observational studies of warm clouds using a flight phase Doppler interferometer to measure cloud drop size distributions and drop velocity for understanding the microphysical processes of precipitation initiation and mixing in warm clouds. Research supervised by Prof. Patrick Chuang.

### Refereed Publications and Submitted Manuscripts

- 2017 ▪ Sockol, A. and **J.D. Small Griswold**: Inter-comparison of CMIP5 Model and Satellite Observations of Cloud-Aerosol Interactions (*In Review – Journal of Atmo Science*)
- 2016 ▪ **Small Griswold, J.D.** Climate Change Literacy: Teaching the Science of Climate Change Through Writing, (*In Review – Journal of College Science Teaching*).
- 2016 ▪ Heikkila, A. and **J.D. Small Griswold**: Vertical Distributions and Seasonal Fluctuations from CALIOP: A Regional Aerosol-Cloud Interaction Analysis (*Revising for Resubmission to – Earth and Space Science*)
- 2016 ▪ Norgren, M.S., **J.D. Small**, H.H. Jonsson and P.Y. Chuang, 2016: Observational estimates of detrainment and entrainment in non-precipitation shallow cumulus, *Atmos. Chem. Phys.*, **16**, 21-33, doi:10.5194/acp-16-21-2016
- 2013 ▪ **Small, J.D.**, P.Y. Chuang, and H. Jonsson, 2013: Microphysical imprint of entrainment in warm cumulus, *Tellus B*, **65**, 19922, <http://dx.doi.org/10.3402/tellusb.v65i0.19922>.
- 2011 ▪ **Small, J.D.**, J. H. Jiang, H. Su, and Chengxing Zhai, 2011: Relationship between aerosol and cloud fraction over Australia, *Geophys. Res. Lett.*, **38**, L23802, doi:10.1029/2011GL049404.
- 2009 ▪ **Small, J.D.**, P.Y. Chuang, G. Feingold, H. Jiang, 2009: Can aerosol decrease cloud lifetime? *Geophys. Res. Lett.*, **36**, L16806, doi:10.1029/2009GL038888.

- 2008 ▪ **Small, J.D.** and P.Y. Chuang, 2008: New observations of precipitation initiation in warm cumulus clouds, *J. Atmos. Sci.*, **65**, 2972-2982, doi:10.1175/2008JAS2600.1
- 2008 ▪ Chuang, P.Y., E.W. Saw, **J.D. Small**, R.A. Shaw, C.M. Sipperley, G.A. Payne, and W.D. Bachalo, 2008. Airborne phase Doppler interferometry for cloud microphysical measurements, *Aerosol Sci. Tech.*, **42**, 685-703.
- 2007 ▪ Rauber, R. M., B. Stevens, J. Davison, S. Göke, O. L. Mayol-Bracero, D. Rogers, P. Zuidema, H. T. Ochs III, C. Knight, J. Jensen, S. Bereznicki, S. Bordini, H. Caro-Gautier, M. Colón-Robles, M. Deliz, S. Donaher, V. Ghate, E. Grzeszczak, C. Henry, A.M. Hertel, I. Jo, M. Kruk, J. Lowenstein, J. Malley, B. Medeiros, Y. Méndez-Lopez, S. Mishra, F. Morales-García, L. A. Nuijens, D. O'Donnell, D. L. Ortiz-Montalvo, K. Rasmussen, E. Riepe, S. Scalia, E. Serpetzoglou, H. Shen, M. Siedsma, **J. Small**, E. Snodgrass, P. Trivej, J. Zawislak, 2007: In the Driver's Seat – RICO and Education, *Bull. Am. Met. Soc.*, **88** (12): 1929-1937.
- 2002 ▪ Harnack, R. and **J. Small**, 2002: Identification and analysis of dry periods in New Jersey using the New Brunswick precipitation record. *Bull. of the New Jersey Acad. of Sci.*, **47**(1):1-6.

### Publications in Preparation

- Goodman, C. and **J.D. Small Griswold**: Climate Impacts on Density Altitude and Aviation Operations, *in prep for Weather, Climate and Society*.
- **Small Griswold, J.D.**, A. Gettleman, and A. Pattantyus, XXXX: Aerosol-Cloud Interactions in the Kilauea Plume, *in prep for Journal of Atmo Science*.
- **Small Griswold, J.D.**, P. Y. Chuang, and H. Jonsson, XXXX: Impact of Aerosol Amount on Drop Environment and Mixing Characteristics of Warm Continental Cumulus During GoMACCS *in prep for Journal of Atmo Science*.
- **Small Griswold, J.D.**, J. H. Jiang, and H. Su, XXXX: Aerosol-Cloud Interaction Flavors: On the relationship between aerosols and shallow cloud fraction as a function of region, season and aerosol type, *in prep for Nature Geoscience*.
- Rossiter, D.L, **J.D. Small**, H.H. Jonsson, and P.Y. Chuang, XXXX: Horizontal and vertical structure of drizzle in marine stratocumulus, *in prep for ACP*.
- Bauman, M., J. Jiang, R. Herman, L. Mandrake and **J.D. Small Griswold**, XXXX: A Machine Learning Analysis of the First Aerosol Indirect Effect Using in situ Cloud Measurements, *in prep for Earth and Space Science*.
- Bauman, M, and **J.D. Small Griswold**, XXXX: Toward a global climatology of favorable conditions for pyrocumulonimbus events from 2002-2014, *in prep for JAS*.
- Bauman, M, and **J.D. Small Griswold**, XXXX: Influence of the South American Low Level Jet on Pyroconvection in Boliva, *in prep for JAS*.

### Conference Presentations

- 2016 ▪ **Small Griswold, J.D.**, 2016: Marine Stratocumulus Properties from the FPDR – PDI as a Function of Aerosol during ORACLES, Eos Trans. AGU, Fall Meet. Suppl. Abs. A41D-0066.
- 2016 ▪ **Small Griswold, J.D.**, 2016: Inspiring Young Hawaiian and Pacific Island Women to Pursue S.T.E.M. Careers: Expanding Your Horizons – Hawaii, Eos Trans. AGU, Fall Meet. Suppl. Abs. Oral Presentation. ED43F-04.

- 2016 ▪ Heikkila, A and **J.D. Small Griswold**, 2016: Intercomparison of CALIOP Cloud and Aerosol Profiles with *in situ* Marine Stratocumulus Observations during ORACLES, Eos Trans. AGU, Fall Meet. Suppl. Abs. A41D-0065.
- 2016 ▪ **Small Griswold, J.D.**, P.Y. Chuang, and H. H. Jonsson, 2016: Impact of Aerosol Amount on Drop Environment and Mixing Characteristics of Warm Continental Cumulus During GoMACCS, 17<sup>th</sup> International Conference on Clouds and Precipitation, Manchester, England, July 25-29, 2016. Oral Presentation Number 7.9.
- 2016 ▪ Heikkila, A., and **Small Griswold, J.D.**, 2016: Vertical Distributions and Seasonal Fluctuations from CALIOP: A Regional Aerosol-Cloud Interaction Analysis, 17<sup>th</sup> International Conference on Clouds and Precipitation, Manchester, England, July 25-29, 2016. Poster Presentation Number 13.11.
- 2016 ▪ **Small Griswold, J.D.**, P.Y. Chuang, and H. H. Jonsson, 2016: Aerosol-Cloud Interactions in Warm Continental Cumulus During GoMACCS, 96<sup>th</sup> AMS Annual Meeting, New Orleans, LA, January 10-14, 2016. Poster Presentation Number 786.
- 2016 ▪ **Small Griswold, J.D.**, 2016: Addressing Broader Impacts: Lessons Learned from recent NSF-CAREER Awards, 96<sup>th</sup> AMS Annual Meeting, New Orleans, LA, January 10-14, 2016. Oral Presentation Number 4.3.
- 2016 ▪ Bauman, M. and **J.D. Small Griswold**, 2016: A Machine Learning Analysis of the First Aerosol Indirect Effect Using *in situ* Cloud Measurements, 96<sup>th</sup> AMS Annual Meeting, New Orleans, LA, January 10-14, 2016. Poster Presentation Number 644.
- 2016 ▪ Goodman, C. and **J.D. Small Griswold**, 2016: Impacts of Climate Variability on Commercial Aviation Operations, 96<sup>th</sup> AMS Annual Meeting, New Orleans, LA, January 10-14, 2016. Oral Presentation Number J3.6.
- 2016 ▪ Heikkila, A. and **J.D. Small Griswold**, 2016: Regional Aerosol-Cloud Analysis: Vertical Distributions and Seasonal Fluctuations from CALIOP, 96<sup>th</sup> AMS Annual Meeting, New Orleans, LA, January 10-14, 2016. Oral Presentation Number S21.
- 2015 ▪ **Small Griswold, J.D.**, J.H. Jiang, and H. Su, 2015: On the relationship between aerosols and shallow cloud fraction as a function of region, season and aerosol type, 95<sup>th</sup> AMS Annual Meeting, Phoenix, AZ, January 4-8, 2015. Oral Presentation Number 3.2.
- 2015 ▪ **Small Griswold, J.D.**, 2015: Expanding Your Horizons – Hawaii: Inspiring Young Hawaiian and Pacific Island Women to Pursue S.T.E.M Careers, 95<sup>th</sup> AMS Annual Meeting, Phoenix, AZ, January 4-8, 2015. Oral Presentation Number 4.1.
- 2015 ▪ Bauman, M. and **J.D. Small Griswold**, 2015: Toward a global climatology of favorable conditions for pyrocumulonimbus events from 2002-2014, 95<sup>th</sup> AMS Annual Meeting, Phoenix, AZ, January 4-8, 2015. Oral Presentation Number J.5.5.
- 2015 ▪ Sockol, A. and **J.D. Small Griswold**, 2015: Inter-Comparison of CMIP5 Model Representations and Satellite observations of Cloud-Aerosol Interactions, 95<sup>th</sup> AMS Annual Meeting, Phoenix, AZ, January 4-8, 2015. Oral Presentation Number 6.2.
- 2014 ▪ **Small Griswold, J.D.**, J.H. Jiang, and H. Su, 2014: Regional and Seasonal Variation in the Relationship Between Absorbing Aerosols and Cloud Fraction, AMS 14<sup>th</sup> Conference on Cloud Physics, Boston, MA, July 6-11, 2014. Oral Presentation Number J5.5.
- 2014 ▪ Bauman, M. and **J.D. Small Griswold**, 2014: Compiling a Global Climatology of Pyrocumulonimbus Events to Assess their Climactic Impacts. AMS 14<sup>th</sup> Conference on Cloud Physics, Boston, MA, July 6-11, 2014. Paper Number 295.

- 2014 ▪ Sockol, A. and **J.D.Small Griswold**, 2014: Inter-comparison of CMIP5 Model Representations and Satellite Observations of Cloud-Aerosol Interactions, AMS 14<sup>th</sup> Conference on Cloud Physics, Boston, MA, July 6-11, 2014. Paper Number 203.
- 2014 ▪ **Small, J.D.**, J.H. Jiang, and R. Bhawar, 2014: Investigating Aerosol-Cloud-Precipitation Relationships in South Atlantic Stratocumulus Clouds Using Modern and Long-Term Historical Satellite Data Sets, AMS Annual Meeting, Atlanta, GA, Feb 2-6, 2-14, Oral Presentation Number 3.4.
- 2013 ▪ **Small, J.D.**, J.H. Jiang, H. Su, and C. Zhai, 2013: Evaluation of Model Representations of Cloud-Aerosol Interactions in Biomass Burning Regions, *Eos Trans.*, AGU, Fall Meet. Suppl., San Francisco, CA, Dec 9-13, 2013. Abstract A51E-0058.
- 2013 ▪ **Small, J.D.**, 2013: New Media Learning: Student Podcasting and Blogging in an Intro to Meteorology Course, *Eos Trans.*, AGU, Fall Meet. Suppl., San Francisco, CA, Dec 9-13, 2013. Abstract ED31E-06.
- 2013 ▪ **Small, J.D.**, 2013: Climate Change Literacy: Teaching the Science of Global Climate Change Through Writing, AGU Chapman Conference on Communicating Climate Science, Granby, CO, Jun 8-13, 2013.
- 2012 ▪ **Small, J.D.**, J.H. Jiang, H. Su, and C. Zhai, 2012: Biomass burning aerosol effects on cloud fraction over Australia, AMS Meeting, Oral Presentation, Abstract J1.4.
- 2011 ▪ **Small, J.D.**, J.H. Jiang, H. Su, and C. Zhai, 2011: Biomass burning aerosol effects on cloud fraction over Australia, *Eos Trans.* AGU, Fall Meet. Suppl. Abstract A14A-05.
- 2011 ▪ **Small, J.D.**, J.H. Jiang, H. Su, and C. Zhai, 2011: Effects of Absorbing Aerosol on Cloud Fraction Over Australia, JPL Postdoctoral Research Symposium.
- 2011 ▪ **Small, J.D.**, J.H. Jiang and H. Su, 2011: Regional differences in aerosol effects on cloud properties and precipitation using historical long-term satellite records. American Meteorological Society Meeting, Oral Presentation, Abstract J13.2.
- 2010 ▪ **Small, J.D.**, J.H. Jiang and H. Su, 2010: Regional differences in relationships among clouds, biomass burning aerosols, and precipitation. *Eos Trans.* AGU, Fall Meet. Suppl. Abs. A11H-03.
- 2010 ▪ **Small, J.D.** and J.H. Jiang, 2010: Analysis of the impact of biomass burning in Australia on precipitation and cloud properties using historical long-term satellite records. European Geophysical Union Meeting, Abstract EGU2010-5535.
- 2009 ▪ **Small, J.D.** and P.Y. Chuang, 2009: An analysis of entrainment mixing processes in warm cumulus. *Eos Trans.* AGU, Fall Meet. Suppl., Abstract A13J-0427.
- 2008 ▪ **Small, J.D.**, P.Y. Chuang, G. Feingold, and H. Jiang, 2008: First observations of evaporation-entrainment feedbacks in small cumulus. International Conference on Clouds and Precipitation, Abstract.
- 2008 ▪ Feingold, G., **J.D. Small**, P.Y. Chuang, H. Jiang, S.K. Krueger, H.H. Jonsson, 2008: Assessment of aerosol and entrainment-mixing processes on drop size distributions in warm cumulus. International Conference on Clouds and Precipitation, Abstract.
- 2008 ▪ Rossiter, D.L., **J.D. Small**, and P.Y., Chuang, 2008: Observations of Size-resolved Drizzle Rates in Marine Stratocumulus. International Conference on Clouds and Precipitation, Abstract.
- 2007 ▪ **Small, J.D.**, P.Y. Chuang, G. Feingold, and H. Jiang, 2007: Are there aerosol indirect effects on buoyancy and entrainment in shallow cumulus clouds? *Eos Trans.*, AGU, Fall Meet. Suppl., Abstract A34A-06, 2007.
- 2007 ▪ **Small, J.D.**, 2007: Environmental change science literacy through writing: Successes in an undergraduate writing and composition course, *Eos Trans.*, AGU, Fall Meet. Suppl., Abstract ED23A-0965.

- 2007 Rossiter, D., **J.D. Small**, and P.Y. Chuang, 2007: Drizzle Rates in Marine Stratocumulus, *Eos Trans.*, AGU, Fall Meet. Suppl., Abstract A13B-1169.
- 2007 ▪ **Small, J.D.** and P.Y. Chuang, 2007: New observations of precipitation initiation in warm cumulus clouds, Berkeley Atmos. Sci. Center Symp., October 5, Berkeley, CA, Abstract 52.
- 2007 ▪ **Small, J.D.**, 2007: Writing about change: Teaching the science of global environmental change through writing, Bay Area Institute, August 14, San Francisco, CA.
- 2006 ▪ **Small, J.D.** and P.Y. Chuang. 2006: Initiation of Precipitation in Trade Wind Cumulus Clouds, *Eos Trans.*, AGU, Fall Meet. Suppl., Abstract A13C-0939.
- 2006 ▪ **Small, J.D.** and P.Y. Chuang: Collision-Coalescence Nuclei and Entrainment Mixing During RICO 12th AMS Conf. on Cloud Physics. Madison, WI. Abstract 9.3.
- 2005 ▪ **Small, J.D.** and P.Y. Chuang: Collision-Coalescence Nuclei Measurements During the Rain in Cumulus over the Ocean Experiment AGU, Fall Meet. Suppl., Abstract A13A-0885.
- 2005 ▪ **Small, J.D.**, S.D. Anderson-Bereznicki, B. Medeiros, L. Nuijens, C.K. Henry, D.M. O'Donnell Jr., and F. Morales: RICO Graduate Student Research Flight: The Island Tail Objective AGU, Fall Meet. Suppl. Abstract ED33A-1235.
- 2005 ▪ Conant, W.C., P. Arnott, A. Bucholtz, G. Buzorius, P.Y. Chuang, H.H. Jonsson, S.M. Murphy, T.A. Rissman, **J.D. Small**, A. Sorooshian, V. Varutbangkul, R.C. Flagan, J.H. Seinfeld: Aerosol-Cloud Interactions Evaluated with Aircraft Measurements during the Marine Stratus Experiment AGU, Fall Meet. Suppl., Abstract A13E-06.
- 2003 ▪ Conant, W.C., J.H. Seinfeld, R.C. Flagan, R. Bahreini, T.A. Rissman, V. Varutbangkul, M. Lu, H.H. Jonsson, G. Buzorius, P.A. Durkee, K. Nielsen, A. Bucholtz, A. Termuende, M.A. Tschudi, B.A. Albrecht, P. Kollias, B. Cairns, P.Y. Chuang, **J. Small**, W.P. Arnott, J.W. Walker, G.L. Kok: The Coastal Stratocumulus Imposed Perturbation Experiment: Discerning aerosol indirect effects in stratocumulus clouds using imposed aerosol forcing AGU, 84(46), *Eos Trans.*, AGU Fall Meet. Suppl., Abstract A12B-0091.

### Invited Talks

- **Small, J.D.**, 2010: The sky is not the limit, *5th annual West Coast Conference for Undergraduate Women in Physics*, University of California Santa Cruz.
- **Small, J.D.** and P.Y., Chuang, 2007: Understanding warm clouds: Answering old questions with new observations and insights, *GISS/Columbia University Friday Seminar Series*.
- **Small, J.D.** and P.Y., Chuang, 2008: Chasing the Warm Rain Mystery: Investigating buoyancy, entrainment and microphysical processes in shallow cumulus, *Lawrence Livermore National Laboratory*, seminar.

### Field Projects

- 2016-2018 ▪ ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS), Science Team member, flying the Flight-Probe Dual Range Phase Doppler Interferometer (FPDR-PDI) on the NASA P-3 in the Southeast Atlantic off the coast of Namibia.
- 2008 ▪ VOCALS (VAMOS Ocean Cloud Atmosphere Land Study), data processing advisor for Phase Doppler Interferometer (PDI) data collected on the Navy CIRPAS Twin Otter, over the Southeast Pacific Ocean off the coast of Chile.
- 2007 ▪ CLASIC (Cloud and Land Surface Interaction Campaign), Science Team member, flying the Phase Doppler Interferometer (PDI) on the Navy CIRPAS Twin Otter, over Ponca City, Oklahoma.

- 2007
  - MASE-II (Marine Stratocumulus Experiment-II), Science Team member, flying the Phase Doppler Interferometer (PDI) on the Navy CIRPAS Twin Otter, off the coast of California.
  - GoMACCS (Gulf of Mexico Atmospheric Composition and Climate Study), Science Team member, flying the Phase Doppler Interferometer (PDI) on the Navy CIRPAS Twin Otter, near Houston Texas and over the Gulf of Mexico.
- 2005
  - MASE-I (Marine Stratocumulus Experiment-I), Science Team member, flying the Phase Doppler Interferometer (PDI) on the Navy CIRPAS Twin Otter, off the coast of California.
- 2004
  - RICO (Rain in Cumulus over the Ocean), Science Team member, flying the Phase Doppler Interferometer (PDI) on the NCAR C-130 Aircraft off the coast of Antigua, WI.

### Honors, Grants, Fellowships and Awards

- *United Nations Framework Convention on Climate Change, Conferences of the Parties 22*: Chief of Party for the University Corporation of Atmospheric Research, Marrakech Morocco, Nov. 7-18 2, 016.
- *NASA EV2 AWARD*: ORACLES (ObseRvations of Aerosols above CLouds and their interactions), UH Cloud and Aerosol funding with Steven Howell, Award Effective: Feb. 20, 2015. - Sept 30, 2019, UH Component ~\$1,805,600.
- *NSF CAREER*: A Comprehensive Investigation into Cloud-Aerosol Interactions Using Satellite, Aircraft and Model Data, Award Effective: July 1, 2013 - June 30, 2018, ~\$569,600.
- *U. Hawaii'i SEED Diversity and Equity Initiative Grant*: Women as Scientists Colloquium, \$500
- Outstanding Postdoctoral Research Award, 2011
- Best Student Oral Presentation, 2006: AMS 12<sup>th</sup> Conference on Cloud physics
- Outstanding Earth Science TA (EART 006, 2005; 80C 2004): University of California Santa Cruz
- Center for Informal Learning and Schools Graduate Science Fellow, 2005-07: University of California Santa Cruz
- American Meteorological Society/NASA's Earth Science Enterprise Graduate Fellowship, 2002-03: University of California Santa Cruz

### Teaching Experience

- *Assistant Professor*, University of Hawaii at Mānoa, 2012-Present
  - Undergraduate Non-Major Course and Lab: Introduction to Meteorology (MET 101/ATMO 101)
  - Undergraduate Hawaii Theme Course: Pacific Climates and Cultures (MET 102/ATMO 102)
  - Graduate Level Course and Lab: Satellite Data Applications (MET 611/ATMO 611)
- *Adjunct Faculty*, Cerritos College, 2011-2012
  - Courses: Weather and Climate, Physical Geography
- *Subject Matter Expert (Meteorology)*, South University Online, 2011-present
  - Course: Introduction to Meteorology
- *Instructor*, University of California – Santa Cruz, 2007-2009
  - Courses: Weather and Climate, Concepts of Environmentalism, Writing 1 for Freshman
- *Graduate Student Teaching Assistant*, University of California – Santa Cruz, 2004-2007

## **Graduate Students Supervised or Committee Member**

### **Number of *in progress* Graduate Students Supervised (currently supported by grants): 4 total**

- 1) Dillon Dodson – MS Student, Fall 2015-Present
- 2) Ashley Heikkila – MS Student, Fall 2016-Present
- 2) Jessica Gartzke – MS Student, Fall 2016-Present
- 3) Kayla Yamamoto – MS Student, Fall 2016-Present

### **Number of *completed* Graduate Students Supervised (previously supported by grants): 3 total**

- 1) Alyssa Sockol – MS Student, Fall 2013-Fall 2015, Graduated Fall 2015
- 2) Mark Bauman – PhD turned MS Student, Fall 2013-Fall 2015 Graduated Fall 2015
- 3) Christopher Goodman – MS Student, Fall 2014-Present, Summer 2016 Graduation

### **Number of Graduate student research committees: 11**

- 1) Alyssa Sockol – MS Student (My Student, Graduated Fall 2015)
- 2) Mark Bauman – MS Student (My Student, Graduated Fall 2015)
- 3) Christopher Goodman – MS Student (My Student, Anticipated Summer 2016 Graduation)
- 4) Thomas Winning – MS (Dr. Y.-L. Chen, main adviser, Graduated Summer 2014)
- 5) Liye Li – MS Student (Dr. .-L. Chen, main adviser, Graduated Spring 2015)
- 6) Annette Foerster – PhD Student (Dr. Michael Bell, main adviser, Currently Still a Student)
- 7) Thomas Dunn – PhD Student (Dr. Steven Businger, main adviser, Graduated Fall 2013)
- 8) Aaron Levine – PhD Student (Dr. Fei-Fei Jin, main adviser, Graduated Summer 2014)
- 9) Malte Stuecker – PhD Student (Fei-Fei Jin, main adviser, Graduate Spring 2015)
- 10) Andrew Frambach – MS Student (Dr. Michael Bell, main adviser, Graduated Fall 2015)
- 11) Rebecca Simpson – PhD Student (Dr. Barry Huebert, main adviser, Graduate Fall 2015)
- 12) Amie Dobracki – MS Student (Dr. Steven Howell, main adviser, Graduate Spring 2017)
- 13) Estelle Bonny – PhD Student (Dr. Rob Wright, main adviser)

### **Number of Student Exam Committees: 1**

- 1) Annette Foerster – PhD Student (Dr. Michael Bell, main adviser)

## **Service - University and Professional Committees and Activities**

- **Chair of the American Meteorological Society Committee on Cloud Physics**, Department and Institution: Department of Meteorology, University of Hawaii at Mānoa, Activities and Roles: Planning of 2018 AMS Cloud Physics Conference, (Jan 2016 - Dec 2016)
- **UCAR Weather Day on the Hill and Hill Visits (Washington, D.C.), PACUR Member**, Department and Institution: Presidents Advisory Committee on University Relations
- **Committee on Student Affairs, Vic-Chair and Chair**, Department and Institution: Mānoa Faculty Senate, University of Hawaii at Mānoa (Fall 2014 – Spring 2015)
- **NASA ROSES Terra-Aqua Review Panel**, Activities: Review NASA-ROSES proposals for the A.28 of NRA NNH13ZDA001N, entitled *Research Opportunities in Space and Earth Sciences* (ROSES-13). (September 23-25, 2013)
- **UCAR President's Advisory Committee on University Relations**, Department and Institution: Representing the Department of Meteorology, University of Hawaii at Mānoa (Spring 2013-2019)
- **University of Hawaii Professional Assembly Board of Director Member**, Department and Institution: Representing the Department of Meteorology, University of Hawaii at Mānoa (Spring 2013-2014)
- **Mānoa Faculty Senate Representative**, Department and Institution: Representing the Department of Meteorology, University of Hawaii at Mānoa (Spring 2013 – Fall 2015)

- **SOEST Young Investigator Program Selection Committee Member**, Department and Institution: Department of Meteorology, University of Hawaii at Mānoa
- **American Meteorological Society Committee on Cloud Physics**, Department and Institution: Department of Meteorology, University of Hawaii at Mānoa, Activities and Roles: Planning of 2014 AMS Cloud Physics Conference, (Jan 2013 - Dec 2016)
- **Associated Students of the University of Hawaii - Scholarship Reviewer**, Institution: University of Hawaii at Mānoa, Activities and Roles: Evaluate scholarship applications for outstanding UH students across all disciplines (Fall 2012, Spring 2013)

#### Service – Education and Community Outreach Activities

- **Presenter for STEMPlus Citizen Science Session at ‘Iolani School, Meteorology in the Modern Age: Clouds and Climate**, Department and Institution: Department of Atmospheric Science, University of Hawaii at Mānoa (Nov. 22, 2016).
- **2015 SOEST Open House for K-12 (School of Ocean and Earth Science and Technology)**, Department and Institution: Department of Atmospheric Science, University of Hawaii at Mānoa
- **Expanding Your Horizons – Hawaii (STEM conference for 6<sup>th</sup>-8<sup>th</sup> grade girls) - Chair**, Department and Institution: Chair of EYH of Hawaii. (1<sup>st</sup> annual event April 24, 2014; 2<sup>nd</sup> annual event April 18, 2015; 3<sup>rd</sup> annual event April 16<sup>th</sup>, 2016, 4<sup>th</sup> annual event April 15<sup>th</sup> 2017))
- **Presenter for SOEST Visitors**, Institution: Highlands Intermediate School, Pearl City, HI (April 4, 2014; March 14, 2016)
- **Hawai'i State Science & Engineering Fair Judge**, Institution: Hawai'i Academy of Science, Honolulu HI (April 1, 2015, April 8, 2013; April 1, 2014)
- **SOEST Blog - About Graduate Student Life, Faculty Text and Content Editor**, Department and Institution: Representing the Department of Meteorology, University of Hawaii at Mānoa (Spring 2013-Present)
- **2013 SOEST Open House for K-12 (School of Ocean and Earth Science and Technology)**, Department and Institution: Department of Atmospheric Science, University of Hawaii at Mānoa
- **Volunteer Presenter for Career Day (Women's History Month)**, Institution: Trinity Lutheran Middle School, Wahiawa, HI (March 14, 2013)
- **Women's History Project - Hawaii Liaison**, Activities: Plan events during Women's History Month (March) and through out the year to support and recognize the achievements of women. (Fall 2012-Present)

#### Service – Academic Journal Reviewer

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| 2012-Present | ▪ <b>Reviewer for the Journal of Geophysical Research – Atmospheres (10x)</b> |
| 2014-Present | ▪ <b>Reviewer for Atmospheric Chemistry and Physics Discussions</b>           |
| 2013-Present | ▪ <b>Reviewer for the Journal of Geoscience Education</b>                     |
| 2013-Present | ▪ <b>Reviewer for the Journal of Atmospheric Sciences (3x)</b>                |
| 2011         | ▪ <b>Reviewer for the Journal of Climate (2x)</b>                             |
| 2010         | ▪ <b>Reviewer for the Bulletin of the American Meteorological Society</b>     |