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EDUCATION & TRAINING

Ph.D, 2001 Ruprecht-Karls-University, Heidelberg, Germany (Physics)
EUPHORE, Fundación CEAM, Valencia, Spain
M.S., 1996 Ruprecht-Karls-University, Heidelberg, Germany (Physics Diplom)

RESEARCH, PROFESSIONAL EXPERIENCE & EMPLOYMENT

08/14-present University of Colorado at Boulder, CO, Associate Professor of Chemistry (tenured),
Fellow of CIRES & Adjoint Professor of Atmospheric and Oceanic Sciences
09/14-07/15 KIT, IMK-ASF, Eggenstein-Leopoldshafen, Germany, KIT Distinguished International Scientist
Award (sabbatical)
07/07-08/14 University of Colorado at Boulder, CO, Assistant Professor of Chemistry
05/05-06/07 University of California at San Diego, CA, Feodor Lynen Postdoctoral Fellow
06/02-04/05 M.I.T., Cambridge, MA, Dreyfus Postdoctoral Fellow
02/00-05/02 Ruprecht-Karls University, Heidelberg, Germany
Visiting Scientist at University of Leeds, UK (01/02-02/02)
Visiting Scientist at University of Bremen, Germany (09/01-12/01)
Visiting Scientist at Fundacion CEAM, Valencia, Spain (02/00-06/01)
02/98-01/00 Fundacion CEAM, Valencia, Spain, Marie Curie Fellow

HONORS

2018 Principal Investigator and Mission Scientist: BB-FLUX project
2017 Principal Investigator and Mission Scientist: Pre-BB-FLUX project
2014-2015 Karlsruhe Institute of Technology (KIT) Distinguished International Scientist Fellowship Award - "in recognition of your excellence in creative works related to atmospheric chemistry, environmental sustainability and climate."
2014 ISI Highly Cited Researcher - "for exceptional research performance, demonstrated by production of multiple highly cited papers that rank in the top 1% by citations for Geosciences." (Web of Science)
2012 Principal Investigator and Mission Scientist: TORERO project
2009 CAREER award by National Science Foundation
2008-present Fellow of CIRES - Cooperative Institute for Research in the Environmental Sciences
2005-2007 Feodor-Lynen Fellowship by Alexander von Humboldt Foundation
2002-2005 Camille and Henry Dreyfus Environmental Chemistry Fellow
1998-2000 Marie Curie Research Training Grant by the European Commission
1992-1993 Erasmus Scholarship by the European Commission

MEMBERSHIPS & SERVICE TO THE COMMUNITY

2017-present CLOUD Consortium, CERN, Geneva, Switzerland
2017-present Executive Committee, Department of Chemistry, CU Boulder, CO
2017-present Health and Safety Committee, Department of Chemistry, CU Boulder, CO
2016-present Vice Chancellor of Research Advisory Committee, CU Boulder, CO
2017 CIRES Innovative Research Program Chair, CU Boulder, CO
2016 CIRES Visiting Fellows Program Committee, CU Boulder, CO
2016 Research & Innovation Seed Grant Program Panel member, CU Boulder, CO

- 2008-2016 Graduate Admission, AEA Division of Chemistry, CU Boulder, CO
 2014 Observing Facilities Assessment Panel (OFAP), NCAR/EOL, Boulder, CO
 2014 Host Telluride Workshop ‘New Insights Into Gas-Phase Atmospheric Chemistry’
 2013-2014 CIRES Executive Committee, CU Boulder, CO
 2013 Host for the 6th International DOAS Workshop, August 12-14, Boulder, CO
 2012 CIRES Distinguished Lecture Series Committee, CU Boulder, CO
 2011 CIRES Graduate Student Fellowship Program Committee, CU Boulder, CO
 2010 Member of NASA’s GeoCape Science team (interdisciplinary working group)
 2010 Advisor ProAire Science Policy Workshop, Mexico City
 2010 CIRES Innovative Research Program Committee, CU Boulder, CO
 2009 Panel Member for NASA/ESTO’s ‘Advanced Component Technology’ program
 2009-present Member of the American Chemical Society
 2008 Panel Member “Public Policy on Air Quality” in Guadalajara, Jalisco, Mexico
 2008-present Associate Editor for Atmospheric Measurement Techniques
 2007 Panel Member “Science-Policy Workshop”, Leon, Guanajuato, Mexico
 2005-present Associate Editor for Atmospheric Chemistry and Physics
 2005-present Member of the Humboldt Network (Alexander von Humboldt Foundation)
 2004-present Member of the American Geophysical Union
 1999-present Member of the European Geophysical Union
 1998-present Member of the Marie Curie Network
 1997-present Member of the Deutsche Physikalische Gesellschaft (German society of physics)

Chaired sessions at conferences, recent years: 2017 8th International DOAS Workshop ‘Halogens’ (Session Chair); 2016 ACS Physical Chemistry Symposium ‘Atmospheric Chemistry’ (Session Chair); 2015 7th International DOAS Workshop ‘Airborne observations’ (Session Chair); 2014 Telluride Workshop (Chair);

EDUCATION & OUTREACH

- 2018 Interviews with Idahopress, and KITV, Boise, ID (BB-FLUX project)
 2015 CLOUD-TRAIN Summer School, Invited Speaker, June 7-13, 2015, Lisbon, Portugal
 2013 Partnership with St. Vrain School district’s Race to the Top program (CAREER award); Workshop for STEM Coordinators; curriculum development that use GLOBE (Global Learning and Observation to Benefit the Environment), Nov 13-14, 2013, Boulder, CO
 2012 Public lecture at CeNAT in San Jose, Costa Rica; TORERO project
 2012 Public lecture at IGP in Lima, Peru; on invitation by the SOLAS program
 2011 High School Chemistry Teacher Conference, Oct 14, 2011, Boulder, CO
 2008 UNESCO “Our Changing Planet” public lecture, UNAM, Mexico City
 2008 Public lecture on Global Air Quality; the Global Leadership Institute, Boulder, CO
 2006 Public lectures on Air Pollution; MILAGRO project, Mexico City

K-12 curriculum development; Chemistry undergraduate program curriculum development; Laboratory tours for 36 high school students and teachers to my research laboratory.

Interviews and Newsletter contributions on request by *Nature Climate Change*, *SOLAS* Newsletter, *CLIVAR* Newsletter, *Spheres* magazine.

TEACHING & ADVISING

- CHEM4171, *Instrumental Analysis*; 27-54 undergraduate students/sem.; F12, F15, F16
 CHEM4181, *Instrumental Analysis with Environmental Emphasis*; 21-41 undergraduate students/sem.; S11, S13, S16, S17, S18, S19
 CHEM5161, *Analytical and Atmospheric Spectroscopy*; 6-12 students/sem.; F07-09, F11, F13
 CHEM6901, *Special topics Chemistry*; 2-3 graduate students/sem.; F07-S18

Advising

Graduate students (for whom I am the primary advisor)

1. Ryan Thalman, Ph.D. in Chemistry, 2013 (now: Faculty, Snow College, Salt Lake City, UT)
2. Sean Coburn, Ph.D. in Chemistry, 2014 (now: Research Scientist, CU/NIST, Boulder, CO)
3. Eleanor Waxman, Ph.D. in Chemistry, 2015 (now: NRC Fellow, NIST, Boulder, CO)
4. Sunil Baidar, Ph.D. in Chemistry, 2015 (now: Research Chemist, NOAA, Boulder, CO)
5. Ivan Ortega, Ph.D. in Chemistry, 2015 (now: Associate Scientist II, NCAR, Boulder, CO)
6. Laura Gonzalez, M.S. (thesis Master) in Chemistry, 2015 (now: Lab Coordinator, CU)
7. Theodore Koenig, Ph.D. candidate in Chemistry, since 2012
8. Natalie Kille, Ph.D. candidate in Atmospheric and Oceanic Sciences, since 2014
9. Randall Chiu, Ph.D. candidate in Chemistry, since 2015
10. Henning Finkenzeller, Ph.D. candidate in Chemistry, since 2016
11. Christopher Francis Lee, Ph.D. candidate in Chemistry, since 2018

International Visiting Scholars

1. Si-Yuan Wang, University of Science & Technology, Hong Kong, China, Fulbright Fellow, 2013-2014 (now: ASP Postdoctoral Fellow, NCAR, Boulder CO)
2. Riu (Ada) Liu, Yunnan University & Fudan University, China, CNSF Fellow, 2017-2018 (now: Lecturer at Yunnan University, China)

Postdoctoral Associates

1. Dr. Roman Sinreich, 2008-2013, moved to Munich, Germany (industry)
2. Dr. Christopher Kampf, 2012, moved to Max-Planck Institute for Chemistry, Mainz, Germany
3. Dr. Hilke Oetjen, 2010-2013, moved to NASA/JPL, Pasadena, CA
4. Dr. Kyle Zarzana, since 2018
5. Dr. Andrea Wagner, incoming 2019

Senior Staff

1. Michael Lechner, Research Associate, 2007-2013
2. Phil Hadley, Research Associate, 2013-2015
3. Dr. Barbara Dix, Senior Research Associate, 2008-2018
4. Dr. David Thomson, Research Scientist II, since 2008
5. Anne Handschy, Research Associate, since 2015
6. Benjamin Howard, Research Associate, since 2018

Undergraduate students

My group provides undergraduate research opportunities to CU students, or visiting students supported by NSF's Research Experiences for Undergraduates (REU) program. Typically, between one and three undergraduate researchers are working with my group at a time.

1. Andrew Hadd, 2007-2008, CU Boulder
2. Andrew Hattel, 2011, CU Boulder
3. LeShaun Jones, 2012, CU Boulder
4. Natascha Goss, 2013-2014, CU Boulder, Honor's thesis in Chemistry
5. Allison Davis, 2016, CU Boulder
6. Galen Goldscheitter, 2017, CU Boulder
7. Christopher Lee, 2018, CU Boulder
- 8.-12. Andy Lambert, Mckayla Pham, Bryce Lorentzen, Tyler Herath, Kia Tawa, all 2018 (NSF-REU students in collaboration with Prof. Gannet Hallar, University of Utah)

PUBLICATIONS – QUANTITATIVE SUMMARY

Number of peer reviewed publications:	106
Highly Cited Papers (top 1% in Geosciences):	8
H-index:	45
Citations:	5980
Researcher ID:	B-8925-2016