

## Curriculum Vitae

### Joost de Gouw

Professor, Department of Chemistry  
& Fellow, Cooperative Institute for Research in Environmental Sciences (CIRES)  
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### Professional Preparation

University of Utrecht, Netherlands	MSc, Physics, 1990	
University of Utrecht, Netherlands	PhD, Physics, 1994 (cum laude)	Prof. Heideman
JILA, Univ. of Colorado at Boulder	post-doc, 1994-1996	Dr. Leone
NOAA Aeronomy Laboratory	post-doc, 1997-1998	Dr. Howard

### Appointments

Professor, CIRES and Department of Chemistry, University of Colorado	2018-present
Fellow of CIRES, joint institute between NOAA and University of Colorado	2008-present
Adjoint Professor, Department of Chemistry & Biochemistry, University of Colorado	2014-2018
Research Scientist, CIRES and NOAA Earth System Research Laboratory	2001-2018
Research Professor, Inst. for Marine and Atmospheric Research, University of Utrecht	1998-2001

### Honors and Awards

Boulder Faculty Assembly Award for Excellence in Research, Scholarly and Creative Work	2024
Co-recipient, Colorado Governor's Award for High-Impact Research	2022
Healthy Community Award, Boulder County Public Health	2022
Fellow, American Geophysical Union	2020
Web of Science Highly Cited Researcher in the category Cross-Field	2018
Honorable Mention, Colorado Governor's Award for High-Impact Research	2018
Recipient of "Make Our Planet Great Again" grant est. by President Macron (declined)	2018
Web of Science Highly Cited Researcher in the Geosciences	2017
Co-recipient, Outstanding Paper Award, NOAA Oceanic & Atmospheric Research	2017
Co-recipient, Colorado Governor's Award for High-Impact Research	2014
Co-recipient, Colorado Governor's Award for High-Impact Research	2012
CIRES Outstanding Performance Award	2007
Recipient of FOM Springplank Fellowship	1998
Cum Laude PhD graduate, University of Utrecht	1994

### Scientific Leadership

Co-Principal Investigator, NOAA California Nexus Study (CalNex) 2010

- Co-led a team of >50 investigators from NOAA, academia and foreign institutions that made measurements at a ground site in Pasadena, sponsored by NOAA, NSF and CARB.
- Supervised a team of 6 CIRES scientists that made measurements of VOCs in Pasadena, onboard the NOAA WP-3D research aircraft and onboard the research vessel Atlantis.
- Led and/or collaborated on 41 peer-reviewed papers so far.

Principal Investigator, NOAA Southeast Nexus Study (SENEX) 2013

- i. Led a team of >40 investigators from CIRES, NOAA, NASA and academia that made measurements from the NOAA WP-3D research aircraft in the Southeast U.S., sponsored by NOAA and EPA.
- ii. Co-led the organization of the simultaneous Southern Oxidants and Aerosol Study (SOAS), sponsored by NSF and EPA, which involved measurements at a ground site in Alabama and airborne measurements from the NSF C-130 aircraft in the Southeast U.S. Coordinated between the SENEX and SOAS studies.
- iii. Supervised a team of 6 CIRES scientists that made measurements of VOCs onboard the NOAA WP-3D research aircraft, the NSF C-130 research aircraft and at the SOAS ground site in Alabama.
- iv. Led and/or collaborated on the organization of a data workshop and publication of 29 peer-reviewed papers so far.

**Principal Investigator, NOAA Shale Oil and Natural Gas Nexus Study (SONGNEX) 2015**

- i. Led a team of >30 investigators from CIRES, NOAA, NASA and academia that made measurements from the NOAA WP-3D research aircraft over oil and gas production regions in the western U.S.
- ii. Coordinated with simultaneous airborne measurements in New Mexico, measurements at a ground site in Colorado and from mobile laboratories in Colorado and Utah, sponsored by NOAA.
- iii. Led and/or collaborated on the organization of a data workshop and publication of 4 peer-reviewed papers so far.

**Publications**

Quantitative Summary (August 2024)

Number of publications	355
Number of citations	27,950
H-index	95

Full list of publications below and at <https://www.webofscience.com/wos/author/record/1640517>

**Plenary Lectures**

Trace Gas Measurements Inside a University Art Museum: Sources and Fate of Volatile Organic Compounds, 14<sup>th</sup> International Conference on Indoor Air Quality in Heritage and Historic Environments, Antwerp, Belgium, 2020 (virtual)

Real-Time Measurements of Trace Gases in Air by Chemical Ionization Mass Spectrometry, 67<sup>th</sup> Annual Conference on Mass Spectrometry, Tsukuba, Japan, 2019

**Invited Talks at International Conferences**

Indoor Air Quality in Homes Impacted by Smoke from a Fire at the Wildland Urban Interface, Chemistry of Indoor Environments Capstone Conference, Alfred P. Sloan Foundation, Washington D.C., October 19-20, 2023.

After the Blaze: Indoor Air Quality Studies following Boulder's Urban Fire, Science Writers 2023, Boulder, Colorado, October 6-10, 2023.

Volatile Organic Compounds in Urban Air and after a Wildfire at the Wildland Urban Interface, Gordon Research Conference on Atmospheric Chemistry, Newry, Maine, July 30-August 4, 2023.

Atmospheric Oxidation Reactions in the Los Angeles Basin, Fall Meeting of the American Geophysical Union, Chicago, December 12-16, 2022

Volatile Organic Compounds inside Homes Impacted by Smoke from the Marshall Fire, Atmospheric Chemical Mechanisms Conference, University of California Davis, December 7-9, 2022

Sources, Chemical Transformations and Fate of Organic Trace Gases in Different Indoor Environments, 16th Conference of the International Society of Indoor Air Quality & Climate, Seoul, Korea, 2020 (virtual)

Outdoor Air Pollution: Recognition of Indoor Emissions as a Major Contributor, Annual Meeting of the American Association for the Advancement of Science, Washington DC, 2019

VOC Emissions and Chemistry in a North American Megacity: Results from the NOAA CalNex Study in 2010, 5<sup>th</sup> International Symposium on Regional Air Quality Management, Guangzhou, China, 2017

Measurements of Volatile Organic Compounds in the Atmosphere Using a Novel H<sub>3</sub>O<sup>+</sup> Time-of-Flight Chemical Ionization Mass Spectrometry Instrument, National Meeting, American Chemical Society, Philadelphia, Pennsylvania, 2016

Enhanced Removal of Biogenic Hydrocarbons in Power Plant Plumes Constrains the Dependence of Atmospheric Hydroxyl Concentrations on Nitrogen Oxides, Fall Meeting, American Geophysical Union, San Francisco, California, 2015

Anthropogenic and Biogenic Emissions, and their Contributions to Summertime Haze in the Southeast U.S.: Results from the NOAA SENEX Study in 2013, Fall Meeting, American Geophysical Union, San Francisco, California, 2015

Overview of the NOAA SENEX Field Mission, Annual Conference, American Association for Aerosol Research, Orlando, Florida, 2014

Formation of Organic Aerosol in the Outflow from Urban Areas in the Southeastern United States, Goldschmidt Conference, Sacramento, California, 2014

Aerosol Sources from the Deepwater Horizon Oil Spill, Annual Conference, American Association for Aerosol Research, Orlando, Florida, 2011

Secondary Organic Aerosol Produced from Non-Measured Hydrocarbons Downwind from the Oil Spill in the Gulf of Mexico, Fall Meeting, American Geophysical Union, San Francisco, California, 2010

Sources, Sinks and Chemistry of VOCs: Summary of Results from Multiple Airborne, Ship-Based and Surface Measurements, Fall Meeting, American Geophysical Union, San Francisco, California, 2009

Emissions and Secondary Formation of Organic Aerosols in the Polluted Atmosphere, Annual Conference, American Association for Aerosol Research, Reno, Nevada, 2007

The Chemistry of Oxygenated VOCs in a Polluted Atmosphere, Gordon Research Conference on Atmospheric Chemistry, Big Sky, Montana, 2005

#### **Invited Seminars**

NOAA Global Monitoring Laboratory, Boulder, Colorado	Nov 2023
Texas A&M University, College Station, Texas	Oct 2023
Harvard University, Cambridge, Massachusetts	Sep 2023
Frontiers in Atmospheric Chemistry seminar series	Dec 2022
Global Air Quality Conversation seminar series, Peking University, China	Apr 2022
Chevron (virtual)	Oct 2020
University of Tokyo, Tokyo, Japan	May 2019
National Institute for Environmental Studies, Tsukuba, Japan	May 2019
Delft University of Technology, Delft, Netherlands	Jan 2019
Royal Netherlands Meteorological Institute, de Bilt, Netherlands	Jan 2019
Massachusetts Institute of Technology, Boston, MA	May 2018
Aerodyne Research Inc., Billerica, MA	May 2018
CIRES seminar, University of Colorado Boulder	Apr 2018
University of California, Riverside, California	Feb 2018
Atmospheric Chemistry Observations & Modeling, NCAR, Boulder, Colorado	Feb 2018
IRCELYON, University of Lyon, Lyon, France	Jan 2018
Aerodyne Research Inc., Billerica, MA	Dec 2017
Guangzhou Institute for Geochemistry, Guangzhou, China	Nov 2017
University of California, Riverside, California	Oct 2017

Tofwerk AG, Thun, Switzerland	May 2017
Phillips 66 Company, Bartlesville, Oklahoma	Oct 2016
University of Alabama, Huntsville, Alabama	Mar 2016
University of Washington, Seattle, Washington	Dec 2015
Denver University, Denver, Colorado	Oct 2015
Harvard University, Cambridge, Massachusetts	Sep 2015
Rutgers University, New Brunswick, New Jersey	Jun 2015
Shanghai Academy of Environmental Sciences, Shanghai, China	Mar 2014
Peking University, Beijing, China	Mar 2014
Environment Canada, Toronto	Dec 2012
University of California, Berkeley, California	Nov 2012
UCLA, Santa Monica, California	Oct 2012
University of Minnesota, Minneapolis, Minnesota	Oct 2012
ATOC, University of Colorado, Boulder, Colorado	Apr 2011
Colorado State University, Fort Collins, Colorado	Feb 2011
Laboratoire Interuniversitaire des Systèmes Atmosphériques, Paris, France	Dec 2009
NCAR Atmospheric Chemistry Division, Boulder, Colorado	Oct 2009
North Carolina Agricultural & Technical State University, Greensboro, NC	Oct 2007
Chalmers University, Gothenburg, Sweden	Jan 2007
California Institute of Technology, Pasadena, California	Feb 2006
Atmospheric Chemistry Division, NCAR, Boulder, Colorado	Dec 2004

### Public Lectures

Indoor Air after the Marshall Fire, Living with Wildfire Lecture Series, Boulder Watershed Collective, Mar 2022.

Fine Particle Formation Downwind from the Oil Spill, Lecture Series, Chautauqua Boulder, May 2012.

Atmospheric Impact of the Deepwater Horizon Oil Spill, Café Scientifique, Boulder, Sep 2010.

### Selected Popular Media Appearances

Air quality analysis ongoing 2 years after Marshall Fire, CU Boulder Today, October 2023,

<https://www.colorado.edu/today/2023/10/10/air-quality-analysis-ongoing-2-years-after-marshall-fire>

More than a million Coloradans live with elevated wildfire risk, Colorado State Forest Service says, Denver7, October 2023, <https://www.denver7.com/news/local-news/more-than-a-million-coloradans-live-with-elevated-wildfire-risk-colorado-state-forest-service-says>

On Maui, returning home means confronting toxic risks, Grist.org, August

2023, <https://grist.org/wildfires/maui-wildfire-lahaina-rebuilding-means-confronting-toxic-risks/>

Colorado is still learning from the most destructive fire in state's history, 11NEWS, January 2023,

<https://www.kktv.com/2023/01/05/colorado-is-still-learning-most-destructive-fire-states-history/>

"Air quality issues don't go away when the fire is out": Questions remain about long-term Marshall fire health effects, The Colorado Sun, December 2022, <https://coloradosun.com/2022/12/29/colorado-marshall-fire-air-quality-issues/>

What is the air quality like one year after the Marshall Fire? 9NEWS, December 2022,

<https://www.9news.com/article/news/local/wildfire/marshall-fire/air-quality-marshall-fire-one-year/73-4bf65d3e-3696-4ca6-977f-3875be12683f>

New research suggests indoor air quality remains poor for weeks after wildfires are extinguished,

11NEWS, December 2022, <https://www.kktv.com/video/2022/12/30/new-research-suggests-indoor-air-quality-remains-poor-weeks-after-wildfires-are-extinguished/>

Marshall Fire still shrouded in mystery one year later, Axios Denver, December 2022, <https://www.axios.com/local/denver/2022/12/21/marshall-fire-boulder-mystery-investigation-one-year>

No return home for some Marshall Fire survivors, KUNC Radio, December 2022, <https://www.kunc.org/news/2022-12-06/no-return-home-for-some-marshall-fire-survivors>

7 facts that explain how air quality is measured, FOX Weather, October 2022, <https://www.foxweather.com/learn/7-facts-explain-how-air-quality-measured>

Why does the air quality get so bad in summer? FOX Weather, June 2022, <https://www.foxweather.com/learn/why-does-the-air-quality-get-so-bad-in-summer>

Heat, ozone, traffic create air quality issues, FOX31, June 2022, <https://kdvr.com/news/health/heat-ozone-traffic-create-air-quality-issues/>

'We are the silent victims': Denver7 Gives helps those whose houses were damaged in Marshall Fire, Denver7, March 2022, <https://www.thedenverchannel.com/news/contact-denver7/denver7-gives/denver7-gives-marshall-fires-silent-victims>

Crowdsourced Science Helps Monitor Air Quality in Smoke-Damaged Homes, EOS, February 2022, <https://eos.org/articles/crowdsourced-science-helps-monitor-air-quality-in-smoke-damaged-homes>

A devastating blaze picked a fight with scientists, ClimateWire, February 2022, <https://www.eenews.net/articles/a-devastating-blaze-picked-a-fight-with-scientists/>

Smoke damage raises questions about safety for homeowners after Marshall Fire, 9NEWS Denver, February 2022, <https://www.9news.com/article/news/local/wildfire/marshall-fire/marshall-fire-smoke-damage-safety-concerns/73-c05a5a34-4032-463b-a6eb-e120eb9429bc>

Scientists Monitor Air Pollution Around Marshall Fire Burn Site, KGNU radio, January 2022, <https://news.kgnu.org/2022/01/scientists-monitor-air-pollution-around-marshall-fire-burn-site/>

The Marshall fire burnt whole subdivisions and shopping centers. Are the ashes an air quality threat? Colorado Public Radio, January 2022, <https://www.cpr.org/2022/01/19/marshall-fire-air-quality/>

CU researchers testing air quality of homes near Marshall Fire, FOX31, January 2022, <https://kdvr.com/news/local/cu-researchers-testing-air-quality-of-homes-near-marshall-fire/>

Researchers Studying Air Quality Inside Homes Left Standing From Marshall Fire, CBS4 Denver, January 2022, <https://denver.cbslocal.com/2022/01/17/air-quality-marshall-fire-home/>

CU, NOAA researching air quality in Marshall Fire area, 9NEWS Denver, January 2022, <https://www.9news.com/article/news/local/wildfire/marshall-fire/cu-noaa-air-quality-marshall-fire/73-43416c63-cdbd-4fba-a3e8-703c4deccea7>

Air quality impacts linger after Marshall Fire, FOX31, January 2022, <https://kdvr.com/video/air-quality-impacts-linger-after-marshall-fire/7284005/>

Trees May Become the Biggest Air Pollution Contributors in LA, Inside Science, August 2021, <https://insidescience.org/news/trees-may-become-biggest-air-pollution-contributors-la>

Pointing the tools of atmospheric chemistry inside, Chemistry World, March 2021, <https://www.chemistryworld.com/news/pointing-the-tools-of-atmospheric-chemistry-inside/4013398.article>

CU Study Finds Bleach-Based Cleaning Products And Sweat Create Airborne Chemicals, CBS4 Denver, January 2021, <https://denver.cbslocal.com/2021/01/06/boulder-university-colorado-study-bleach-sweat-airborne-chemicals/>

Bleach plus sweat means gyms need especially good ventilation, MedicalResearch.com, January 2021, <https://medicalresearch.com/exercise-fitness/bleach-plus-sweat-means-gyms-need-especially-good-ventilation/56382/>

COVID-19 lockdowns had strange effects on air pollution across the globe, Chemical & Engineering News, September 2020, <https://cen.acs.org/environment/atmospheric-chemistry/COVID-19-lockdowns-had-strange-effects-on-air-pollution-across-the-globe/98/i37>

It's not just cars that make pollution. It's the roads they drive on, too, Science, September 2020, <https://www.sciencemag.org/news/2020/09/it-s-not-just-cars-make-pollution-it-s-roads-they-drive-too>

Uit zonverhit asfalt komen ongezonde dampen vrij, NRC, September 2020, <https://www.nrc.nl/nieuws/2020/09/02/uit-zonverhit-asfalt-komen-ongezonde-dampen-vrij-a4010627>

A Beautiful Yet Grim Map Shows How Wildfire Smoke Spreads, Wired, August 2020, <https://www.wired.com/story/map-shows-how-wildfire-smoke-spreads/>

Stay-home orders allowing scientists to study different sources of pollution, 9NEWS Denver, May 2020, <https://www.9news.com/video/news/local/next/stay-home-orders-didnt-solve-all-of-colorados-pollution-problems/73-22e70c6b-36fc-4e3c-999a-8bb09300b360>

COVID-19 brings cleaner air for Earth Day 50th, KOAA NEWS5, Apr 2020, <https://www.koaa.com/news/covering-colorado/covid-19-brings-cleaner-air-for-earth-day-50th>

Atmospheric Scientists Show Resilience in the Face of Lockdowns, EOS, Apr 2020, <https://eos.org/articles/atmospheric-scientists-show-resilience-in-the-face-of-lockdowns>

Bringing Attention To Indoor Air Pollution, Forbes, Feb 2019, <https://www.forbes.com/sites/jessicabaron/2019/02/19/bringing-attention-to-indoor-air-pollution/#79eff7d98b3c>

Cleaning products a big source of urban air pollution, say scientists, The Guardian, Feb 2018, <https://www.theguardian.com/environment/2018/feb/15/cleaning-products-urban-pollution-scientists>

Clean bill of health: the household products that won't make you ill, The Telegraph, Feb 2018, <https://www.telegraph.co.uk/health-fitness/body/clean-bill-health-household-products-wont-make/>

Chemicals in household cleaning products, pesticides and perfumes are now as big an air pollution threat as cars, Daily Mail, Feb 2018, <http://www.dailymail.co.uk/sciencetech/article-5395871/House-products-big-air-pollution-threat-vehicles.html>

Tracking energy's 'fugitive emissions,' from above, High Country News, Aug 2015, <https://www.hcn.org/issues/47.15/in-the-southwest-four-corners-methane-has-a-dark-side/tracking-energys-fugitive-emissions-from-above>

How 'Miss Piggy' Helps Scientists Study Oil and Gas Field Emissions from Above, KUT Radio, Austin Texas, Apr 2015, <http://kut.org/post/how-miss-piggy-helps-scientists-study-oil-and-gas-field-emissions-above>

Obama Climate Rules Not Enough to Fight Global Warming, Scientific American, Jun 2014, <https://www.scientificamerican.com/article/obama-climate-rules-not-enough-to-fight-global-warming/>

Colorado Scientists Study Greenhouse Gas Sources, How on Earth, KGNU Radio, Feb 2014, <https://www.kgnu.org/fracking/>

Switch to Natural Gas Slashes Power Plant Pollution, Scientific American, Jan 2014, <https://www.scientificamerican.com/article/switch-to-natural-gas-slashes-power-plant-pollution/>

Ethanol levels in the air over US cities on the rise, New Scientist, Jul 2012, <https://www.newscientist.com/article/mg21528744-400-ethanol-levels-in-the-air-over-us-cities-on-the-rise/>

Gulf Oil Spill Helps Explain Air Pollution Mystery, National Geographic, Mar 2011, <https://news.nationalgeographic.com/news/2011/03/110310-gulf-oil-spill-air-pollution-science-nation/>

## Teaching

Served as academic advisor to the following graduate students:

Daniel Bon (now: Carbon Mapper)	PhD 2011
Patrick Veres (now: NCAR Earth Observing Laboratory)	PhD 2011
Rui Li (co-advised by Jose Jimenez)	PhD 2015
Abigail Koss (now: TOFWERK USA)	PhD 2017
Zachary Finewax (co-advised by Paul Ziemann; now: CDPHE)	PhD 2020
Andrew Jensen (now: University of Michigan)	PhD 2023
Olivia Jenks (now: U.S. Geological Survey)	PhD 2024
William Dresser	2019-present
Alexander Bradley	2020-present
Lindsey Anderson	2021-present
Madison Rutherford	2022-present
Drew Blauth	2023-present
Nathan Sweet (primary advisor: Dr. Kevin Cossel at NIST)	2023-present
Madeline Farber (primary advisor: Prof. Rosario-Ortiz in Engineering)	2023-present
Taught CHEM-3151 / ATOC-3500 "Air Chemistry and Pollution"	2022
Taught CHEM-4181 "Instrumental Analysis II"	2020, 2021, 2023, 2024
Taught CHEM-4171 "Instrumental Analysis I"	2018, 2021
Taught CHEM-5181 "Mass Spectrometry and Chromatography"	2015, 2023, 2024
Taught CHEM-5152 "Advanced Atmospheric Chemistry"	2016, 2018, 2023
Served on multiple Dissertation and Orals Committees	
Guest lecturer at Colorado College (Apr 2021), Technical University of Berlin (Jul 2021)	

### **Service to Scientific Community**

Secretary, Composition and Chemistry, Atmospheric Sciences section, American Geophysical Union, 2023-present

Chair of the Kaula Award Committee, American Geophysical Union, 2022-2023

Member of the Trans-National Access evaluation panel of the European Union ATMO-ACCESS project, 2021-2024

Member of the Independent Technical Advisory Committee of the Texas Air Quality Research Program, 2016-present

Member of the Kaula Award Committee, American Geophysical Union, 2018-2021

Member of the Advisory Panel on Instrumentation, Atmospheric Chemistry Observations & Modeling, National Center for Atmospheric Research, 2018-2021

Member of the Trans-National Access user selection panel of the Eurochamp-2020 program, 2017-2021

Member of the Committee for the Review of the BOEM "Air Quality Modeling in the Gulf of Mexico Study", National Academy of Sciences, Engineering and Medicine, 2019-2020

Served on several Editor and Editor-in-Chief search committees for the American Geophysical Union

Served as Editor and Acting Editor-in-Chief for the Journal of Geophysical Research – Atmospheres, American Geophysical Union, 2009-2013

Reviewer of proposals for: National Science Foundation (NSF), National Aeronautics and Space Administration (NASA), National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Energy (DOE), U.S. Environmental Protection Agency (EPA), U.S. Army Research Office, Natural Sciences and Engineering Research Council of Canada, European Science Foundation, National Science Foundation of the Netherlands (NWO), U.K. National Environment Research Council, Academy of Finland, Israel Science Foundation, and others.

Reviewer of manuscripts for: Nature, Nature Communications, Nature Catalysis, Science, Science Advances, Proceedings of the National Academy of Sciences, Geophysical Research Letters, Journal

of Geophysical Research - Atmospheres, Atmospheric Chemistry and Physics, Environmental Science & Technology, Environmental Research Letters, Atmospheric Environment, Aerosol Science & Technology, International Journal of Mass Spectrometry, Journal of the American Society for Mass Spectrometry, Mass Spectrometry Reviews, Journal of Physical Chemistry, Chemical Reviews, Journal of Physics B: Atomic, Molecular and Optical Physics, Biotechnology Progress and others. Scientific briefings: Atmospheric Chemistry Research Subcommittee, Washington DC, Jan 2015; Stan Meiburg, Acting Deputy Administrator U.S. EPA, Boulder, Jun 2016; Janet McCabe, Acting Assistant Administrator for the Office of Air and Radiation, U.S. EPA, Denver, Oct 2017; Western Governors Association, Boulder, Nov 2016; Air Quality Research Seminars & Discussion, Washington DC, Apr 2020 (virtual); Oil in the Sea Committee of the National Academy of Sciences, Engineering and Medicine, Washington DC, Dec 2020 (virtual); Boulder County Public Health, Boulder, May 2022.

### Service to CIRES

Fellow of CIRES	2008-present
Associate Director of the Environmental Chemistry Division	2013-present
Member, CIRES Executive Committee	2013-present
Member, Strategic Planning Committee	2021-present
Chair, Career Track Review Committee	2021-present
Member, Social Science white paper committee	2021
Member, Diversity and Inclusion Strategic Planning Committee	2020-present
Mentor, CIRES mentoring Program	2019-2021
Member, CIRES Atmospheric Chemistry faculty search committee	2011-2012
Member, CIRES Director search committee	2012-2013
Chair and member of multiple other committees (Visiting Fellows program, Innovative Research Program, Career-Track promotions, Distinguished Lecture Series, Graduate Student Fellowships)	

### Service to Chemistry Department

Associate Chair for Faculty Affairs	2022-present
Member, Executive Committee	2021-present
Director of Graduate Studies	2019-2022
Member, Theoretical Chemistry faculty search committee	2019-2020
Analytical Graduate Advisor	2018-2019
Adjoint Professor	2014-2018

### Personnel Supervised

Postgraduate: Carsten Warneke (1999-2017), Jessica Gilman (2006-2015), Martin Graus (2010-2014), Brian Lerner (2010-2015), Bin Yuan (2012-2017), Patrick Veres (2014-2015), Matt Coggon (2015-2017), Barbara Dix (2019-present).

Graduate Students: Daniel Bon (2005-2011), Patrick Veres (2006-2011), Rui Li (2011-2015), Abigail Koss (2013-2017), Zachary Finewax (2015-2020), Demetrios Pagonis (2018), Andrew Jensen (2018-2023), Olivia Jenks (2018-2024), Will Dresser (2019-present), Alex Bradley (2020-present), Lindsey Anderson (2021-present), Madison Rutherford (2022-present), Nathan Sweet (2023-present), Madeline Farber (2023-present), Drew Blauth (2023-present).

Visiting Graduate Students: Marco Steeghs (Univ. of Nijmegen, Netherlands), Elena Crespo (Univ. of Nijmegen, Netherlands), Kanako Sekimoto (Yokohama City University, Japan), Yuan Bin (Peking University, China), Trevor de Boer (Toronto University, Canada), Warda Ait-Helal (Univ. of Lille, France),



Felix Geiger (Karlsruhe Institute of Technology, Germany), Travis Tokarek (Univ. of Calgary, Canada), Joep de Bruin (Delft Univ. of Technology), Esther Roosenbrand (Delft Univ. of Technology), Tianshu Chen (Shandong Univ.)

Sabbatical visitors: Frans Harren (Univ. of Nijmegen, Netherlands), Allen Robinson (Carnegie Mellon University), Agnès Borbon (CNRS, Univ. of Paris, France), Shao-Meng Li (Environment Canada), Rob Rhew (UC Berkeley), Hans Osthoff (Univ. of Calgary), Kanako Sekimoto (Yokohama City University), Bart Croes (California Air Resources Board), Trupti Das (Institute of Minerals & Materials Technology), Jeong-Hoo Park (National Institute for Environmental Research, Korea), Hwajin Kim (Seoul National University).