

Curriculum vitae

ANNE HOPE JAHREN is an award-winning scientist who has been pursuing independent research in paleobiology since 1996, when she completed her PhD at University of California Berkeley and began teaching and researching first at the Georgia Institute of Technology and then at Johns Hopkins University. She is the recipient of three Fulbright Awards and is one of four scientists, and the only woman, to have been awarded both of the Young Investigator Medals given within the Earth Sciences. She was a tenured professor at the University of Hawaii in Honolulu from 2008 to 2016, where she built the Isotope Geobiology Laboratories, with support from National Science Foundation, the Department of Energy and the National Institutes of Health. She currently holds the J. Tuzo Wilson professorship at the University of Oslo, Norway.



PERSONAL INFORMATION

Jahren, Anne Hope
ORCID iD 0000-0003-3884-1676
Date of birth: September 27, 1969
Nationality: USA
URL for web site: www.jahrenlab.com

EDUCATION

1996 PhD: **Disputation date:** *01.05.1996*.
Department of Soil Science, University of California at Berkeley, USA

CURRENT POSITION

2016 - *present* Wilson Professor
The Centre for Earth Evolution and Dynamics, University of Oslo, Norway

PREVIOUS POSITIONS

2008-2016 Full Professor with Tenure
Department of Geology and Geophysics, University of Hawaii, USA
1999-2008 Assistant to Full Professor with Tenure
Department of Earth and Planetary Sciences, Johns Hopkins University, USA
1996-1999 Assistant Professor
Department of Earth and Atmospheric Sciences, Georgia Institute of Technology, USA

FELLOWSHIPS AND AWARDS

2018 Elected Member, Norwegian Academy of Science and Letters
2018 2018 Medalist, Australian Society for Medical Research
2016 Named to the TIME-100 list: Pioneer category
2016 WINGS WorldQuest Women of Discovery Leadership Award
2013 Best University Research Award, Department of Energy, Geosciences
2011 Aldo Leopold Leadership Fellow
2010 Scientist of the Year: ARCS Honolulu Chapter
2010 Fulbright Award to Scandinavia (also 2003 and 1992)
2005 Named one of the *Popular Science* "Brilliant 10"
2005 James B. Macelwane Medal:
American Geophysical Union Young Scientist Award
2001 Donath Medal:
Geological Society of America Young Scientist Award
1997 Georgia Institute of Technology Teaching Fellow Award
1994 Outstanding Student Instructor Award, University of California at Berkeley

1. History of Publication

75 peer-reviewed publications since 1997; 27 as first-author

3,007 total citations (1436 since 2013); h-index = 32

Ten selected publications [citations]:

1. M.T. Rabanus-Wallace, M.J. Wooller, G.D. Zazula, E. Shute, **A.H. Jahren**, P. Kosintsev, J.A. Burns, J. Breen, B. Llamas and A. Cooper. 2017. Megafaunal isotopes reveal role of increased moisture on rangeland during Late Pleistocene extinctions. *Nature Ecology and Evolution* 1, 0125, DOI: 10.1038/s41559-017-0215. [2]
2. B.A. Schubert, **A.H. Jahren**, S.P. Davydov and S. Warny. 2017. The transitional climate of the late Miocene Arctic: Winter-dominated precipitation with high seasonal variability. *Geology*, DOI: 10.1130/G38746.1. [2]
3. B.A. Schubert and **A.H. Jahren**. 2015. Seasonal Temperature and precipitation recorded in the intra-annual oxygen isotope pattern of meteoric water and tree-ring cellulose. *Quaternary Science Reviews*, 125: 1-14. DOI: 10.1016/j.quascirev.2015.07.024. [8]
4. B.A. Schubert and **A.H. Jahren**. 2015. Global increase in plant carbon isotope fractionation following the last glacial maximum caused by increase in atmospheric pCO₂. *Geology*, DOI: 10.1130/G36467.1. [21]
5. B.A. Schubert and **A.H. Jahren**. 2013. Reconciliation of marine and terrestrial carbon isotope excursions based on changing atmospheric CO₂ levels. *Nature Communications*, 4:1653, DOI: 10.1038/ncomms2659. [27]
6. B.A. Schubert and **A.H. Jahren**. 2012. The effect of atmospheric CO₂ concentration on carbon isotope fractionation in C₃ land plants. *Geochimica et Cosmochimica Acta*, 96: 29-43. [76]
7. B.A. Schubert and **A.H. Jahren**. 2011. Quantifying seasonal precipitation using high-resolution carbon isotope analyses in evergreen wood. *Geochimica et Cosmochimica Acta*, 75(22) 7291-7303, doi: 10.1016/j.gca. 2011.08.002. [24]
8. **A.H. Jahren** and B.A. Schubert. 2010. Corn content of French fry oil from national chain vs. small business restaurants. *Proceedings of the National Academy of Sciences*, 107(5), 2099–2101, doi: 2010.1073/pnas.0914437107. [11]
9. **A.H. Jahren** and L.S.L. Sternberg. 2008. Annual patterns within tree rings of the Arctic middle Eocene (~45 Ma): Isotopic signatures of precipitation, relative humidity and deciduousness. *Geology*, 36(2), 99-102. [55]
10. **A.H. Jahren**. 2007 (*Invited*). The Arctic forest of the middle Eocene. *Annual Review of Earth and Planetary Sciences*, 35, 509-540. [74]

2. Monographs and any translations thereof:

Book: **A.H. Jahren**. 2016. “Lab Girl” (Knopf).

Awards:

Winner, 2016 National Book Critics Circle Award, Autobiography

Winner, 2017 Excellence in Science Prize, AAAS/Subaru

Finalist, 2017 PEN/E.O. Wilson Literary Science Writing Award

Finalist, 2016 Discover Award in Nonfiction, Barnes & Noble

Longlisted, 2016 Andrew Carnegie Medal for Excellence in Nonfiction

Translations: 23 languages including Spanish, French, German, Chinese, Korean and Japanese.

Book: **A.H. Jahren**, Editor. 2017. “The Best American Science and Nature Writing” (Houghton Mifflin)

Articles for the popular press:

A.H. Jahren. (*Essay*). “Tasting the Sweetness of Summer, Berry by Berry.”

The New York Times, Aug 24, 2017.

A.H. Jahren. (*Essay*). “Hope Springs Early, but Not Eternal, for the Deadnettle – or for Us.”

The New York Times, Mar 27, 2017.

A.H. Jahren. (*Opinion*). “The Farmers We Forgot.” The New York Times, Nov 23, 2016.

A.H. Jahren. (*Opinion*). “My Father’s Hackberry Tree.” The New York Times, Aug 6, 2016.

A.H. Jahren. (*OpEd*). “She Wanted to Do Her Research. He Wanted to Talk ‘Feelings’.”

The New York Times, Mar 4, 2016.

A.H. Jahren. (*OpEd*). “Science’s Sexual Assault Problem.” The New York Times, Sep 20, 2014.

3. Granted patents: *None*.

4. Invited presentations to internationally established conferences:

Keynote Speaker, American Society of Agronomy Meeting (Nov. 4-7, 2018, Baltimore, MD, USA)

Keynote Speaker, Medical Library Association (May 26-31, 2017, Seattle, WA, USA)

Keynote Speaker, Goldschmidt Conference (June 8-13, 2014, Sacramento, CA, USA)

5. Research Expeditions

2007, Pró-Mata Center for Research and Nature Conservation (PUCRS), Brazil

2008, Ho'omaluhia Botanical Garden, Hawai'i (USA)

2009, Annascaul Formation (Early Ordovician), Dingle Peninsula, Ireland

2010, Coconino and Kaibab National Forests, Arizona (USA)

2010, Norwegian Experimental Forest, Ås, Norway

2011, Dingle-Dunquin Group (Silurian to Devonian), Dingle Peninsula, Ireland

2014, Komarov Botanical Institute (Aptekarsky Island / St. Petersburg), Russia

6. Organization of international conferences:

2014 Goldschmidt Conference (Organizer, Biogeochemistry Theme), Sacramento, CA, USA

7. Major contributions to the early careers of tenure-track researchers:

Dr. Valisa Hedrick (associate post-doc 2011-2014), currently Assistant Professor, Virginia Tech

Dr. Anne Jefferson (undergraduate researcher 2001-2002) currently Associate Professor, Kent State University

Dr. German Mora (post-doc 2000-2001), currently Associate Professor, Goucher College

Dr. Scott P. Werts, (Ph.D. student 2002-2006), currently Associate Professor, Winthrop University

Dr. John Wilson (undergraduate researcher 2002-2003) currently Assistant Professor, Haverford College

Dr. Edwina Yeung, (associated Ph.D. student 2005-2006) Tenure-track Investigator, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NIH)

8. Examples of leadership in industrial innovation or design:

15-16 May 2017, *Featured Speaker*, General Electric's Leadership summit (Crotonville, NY).

9. Peer-reviewer/panelist responsibilities:

Member, Selection Committee, EGU Houtermans Award (2015-2017)

Member, Selection Committee, AGU Union Medals and Awards (2012-2015)

Member, Selection Committee, AGU Fellows (2008-2010)

Peer reviews performed for numerous Journals/Agencies including *Nature*, *Science*, *Geology*, *Geochimica Cosmochimica et Acta* and NSF, DOE, USDA, EPA.

10. History of Major Funding:

\$ 3.2 M in total U.S. external funds (last 10 years only)

NIH (NIDDK): " $\delta^{13}\text{C}$ Added Sugar Intake Biomarker: Determining Validity in Children" 2014-2016 (subcontracted to VaTech P.I. B. Davy) \$61,750 to Jahren

DOE Division of Geosciences (BES): "Fundamental Research on the Fractionation of Carbon Isotopes during Photosynthesis" 2014-2016 (no Co-P.I.) \$405,000 to Jahren

NSF Division of Sedimentary Geology and Paleontology: "Paleoclimate Analysis of a Miocene Arctic Forest from the Kolyma River Basin, Northeastern Russia" 2013-2015 (Co-P.I. B. Schubert) \$170,000 to Jahren

NIH (NIDDK): "SIPsmarter" 2011-2016 (subcontracted to VaTech P.I. J. Zoellner) \$230,402 to Jahren

DOE Division of Geosciences (BES): "Development of the Carbon Isotope Signature of Terrestrial *n*-alkanes as a Potential Proxy for Palaeo- pCO_2 " 2010-2013 (no Co-P.I.) \$599,338 to Jahren

NSF (OS/MRI): "Acquisition of IRMS Instruments for Stable Isotope Analyses of New Geobiological Substrates" 2010-2013 (Co-P.I. B. Popp) \$716,368 to Jahren

NSF Division of Arctic Sciences: "Collaborative Research: Transarctic Paleoclimate of the Eocene" 2008-2012 (Co-P.I.s J. Eberle, L. Sternberg and R. Summons) \$350,677 to Jahren

NSF (EXE): "Method Development for Stable Isotope Characterization of High Explosives" 2007-2010 (no Co-P.I.) \$397,198 to Jahren

DOE Division of Geosciences (BES): "Development of New Biomarkers for Surficial Earth Processes" 2006-2009 (no Co-P.I.) \$313,595 to Jahren