

Åsa Kristina Rennermalm

Postdoctoral scholar
UCLA
Department of Geography
1255 Bunche Hall, Box 951525
Los Angeles, CA 90095-1524, USA
e-mail: akr@ucla.edu www.rennermalm.com
phone: 310 825 3019

EDUCATION

2008, Ph.D., Department of Civil and Environmental Engineering, Princeton University, Advisor: E. F. Wood
2001, M. Sc., Department of Geography, University of Copenhagen, Copenhagen, Denmark, Advisor: H. Soegaard
1997, B.Sc., Department of Geography, University of Copenhagen, Copenhagen, Denmark, Advisor: H. Soegaard

PROFESSIONAL EMPLOYMENT

Postdoctoral scholar, Department of Geography, UCLA, Advisor: Laurence C. Smith **2007-present**

JOURNAL PUBLICATIONS

Rennermalm, A.K., Smith, L.C., Stroeve, J.C., Chu, V.W. (2009) **Does sea ice influence Greenland ice sheet surface-melt?** *Environmental Research Letters*, 4, 024011, doi: 10.1088/1748-9326/4/2/024011

Grondahl, L., Friberg, T., Christensen, T.R., Ekberg, A., Elberling, B., Illeris, L., Nordstrom, C., Rennermalm, A., Sigsgaard, C., Sogaard, H. (2008) **Spatial and inter-annual variability of trace gas fluxes in a heterogeneous high-arctic landscape.** *Advances in Ecological Research*, 40, 473-498

Rennermalm, A.K., Wood, E.F., Weaver, A.J., Eby, M., Dery, S.J. (2007) **Relative sensitivity of the Atlantic Meridional Overturning Circulation to river discharge into Hudson Bay and the Arctic Ocean.** *Journal of Geophysical Research – Biogeoscience*, 112, G04S48, doi:10.1029/2006JG000330.

Rennermalm, A.K., Wood, E.F., Dery, S.J., Weaver, A.J., Eby, M., (2006) **Sensitivity of the thermohaline circulation to Arctic Ocean runoff.** *Geophysical Research Letters*. Vol. 33, L12703, doi:10.1029/2006GL026124.

Rennermalm A. K., Soegaard H. S., Nordstroem C. N., (2005) **Interannual Variability in Carbon Dioxide Flux from a High Arctic Fen Estimated by Measurements and Modeling.** *Arctic, Antarctic and Alpine Research*. 37 (4): 545-556.

Dery S. J., Steiglitz M., Rennermalm A. K., Wood E. F., (2005) **The Water Budget of the Kuparuk River Basin.** *Journal of Hydrometeorology*. 6 (5): 633-655.

RESEARCH FIELD WORK EXPERIENCE

Kangerlussuaq, Greenland **Jun '09**
Same work and objective as in Kangerlussuaq 2008.

Kangerlussuaq, Greenland **Aug '08**
Conducted river discharge measurements, installed and serviced automatic water depth sensors. The objective was to quantify the Greenland ice sheet discharge.

Toolik Lake Research Station, Toolik Lake, Alaska **Jul '03**
Assembled and maintained a system to measure greenhouse gas exchange (carbon dioxide and

water vapor) between the vegetation (i.e. Arctic tundra) and the atmosphere to quantify the Arctic tundra's role as either a source or sink of greenhouse gases.

Zackenbergl Ecological Research Station, Zackenberg, Greenland **Jul-Aug '98**
Jul '99
Same work and objective as at Toolik Lake 2003.

Disco Island, Graduate Field Course, Greenland **Jul '95**
Analyzed geomorphology and glacial processes in an Arctic Valley to study landscape development.

CONFERENCES AND MEETINGS

Association of American Geographer's Annual Meeting, Las Vegas **2009**
Talk: Influence of sea-ice on Greenland ice-sheet surface-melt

American Geophysical Union's Fall meeting, San Francisco **2008**
Invited talk: The influence of hydrologic variability on peatland dynamics
Talk: Local sea ice influence on Greenland surface melt

Symposium "New Generation Polar Researchers", Colorado Spring **2008**
Selected to attend a weeklong symposium to train early career polar scientist

European Geoscience Union's General Assembly, Vienna, Austria **2008**
Talk: "Hydrological variability and peatland functioning"

Workshop of the NEESPI Focus Research Center for Biogeochemical Cycles, Germany **2008**
Talk: River discharge in the NEESPI region. Trends in mean and extreme flow

American Geophysical Union's Fall meeting, San Francisco **2007**
Talk: Hydrologic Variability and its Influence on Peatland Dynamics

ARCUS Annual Meeting and Arctic Forum, Washington D.C. **2007**
Won a student travel award to attend and present the poster "Identification of dominant pan Arctic river discharge trends"

Arctic System Synthesis Workshop: Overview New Perspectives through Data Discovery and Modeling, Seattle **2007**

American Geophysical Union's Fall meeting, San Francisco **2006**
Talk: "Regional Patterns of Trends and Multi-decadal Variability in Pan Arctic River Runoff"

American Geophysical Union's Fall meeting, San Francisco **2005**
Poster: "The role of river runoff in the Freshwater budget of the Arctic Ocean"

European Geophysical society's General Assembly, Nice, France **2000**
Poster: "Carbon Dioxide and Water Vapor Fluxes from a High Arctic Fen"

EDUCATIONAL/COMMUNITY SERVICE

Scientific Writing Group, Department of Geography, UCLA **Jan '08-Jan '09**
Established a student/post-doc. group with the purpose of enhancing scientific writing skills through weekly meetings.

Scientific Writing Group, Dep. of Civil and Environmental Eng., Princeton University **Jun'07 - Oct'07**
Same goal as UCLA scientific writing group.

Volunteer Judge in the New Jersey Science Olympiad, Princeton, New Jersey **Jan'07**
Judged the "Awesome Aquifer" competition designed to teach groundwater hydrology concepts to middle school students.

Symposium Organizing, Princeton University **Oct.'06**
Initiated, planned and held the symposium "Towards Environmental Balance" together with three other students. The symposium was attended by 50 people from several departments within Princeton University and from other universities in the region and was enabled through funding from several programs within Princeton University.

Scientific Reading Group, Dep. of Civil and Environmental Eng., Princeton University **Jun'06-Sep'06**
Launched a student group with the purpose of reading and discussing current scientific articles in the field of environmental engineering and science during weekly meetings.

House Advisor, The Office of the Graduate School, Princeton University **2003-2006**
Selected by the Graduate School Staff to serve as one out of two House Advisors. Foster a sense of community in the graduate student community. Planned, organized and lead student activities on weekly basis. Conducted peer counseling

Graduate College House Committee, Princeton University **2002-2003**
Member of a 17 person board representing the interest for the ~500 graduate students at the Graduate College to the wider University. Planned and organized student activities.