

CURRICULUM VITAE
University of Idaho – Faculty Senate Format

NAME: Karen S. Humes

DATE: December 19, 2018

RANK: Full Professor

DEPARTMENT: Geography

OFFICE LOCATION AND CAMPUS ZIP:
McClure 323/Campus Zip 3021

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WEB:

DATE OF FIRST EMPLOYMENT AT UI: August 1999

DATE OF TENURE: July 2002

California Institute of Technology, 1979 - 1984. Analysis of space-based geodetic measurements from Very Long Baseline Interferometric systems for application in geophysics and spacecraft tracking; duties included role as Technical Group Leader (1983-84) and Technical Project Manager (1982-1984), including the supervision of 8 employees and project budgets of \$1.7 M/yr.

TEACHING/ADVISING:

Students Mentored:

Undergraduate Students:
Students hired

Daniel Matsche, MS Geography, thesis option, 2017
Joseph Layton, MS Environmental Science, non-thesis option, 2018
Andrew Schnabl, MS Environmental Science, non-thesis option, 2018

Paul Reyes, M.S. Geography, 2010
Christina Brewer, M.S. Geography, 2010 (non-thesis)
Enhao Du, Ph.D. Environmental Science, 2010

Imagery, Joli Hill, M.S. Geography, University of Idaho, 2005.

- , *Evaluation of Lapse Rates and Spatial Interpolation of Air Temperature in Mountainous Basin*, Troy Blandford, M.S. Geography, University of Idaho, 2006.
- , *Integration of Small Footprint Lidar and Multispectral Data to Estimate Canopy Fuel Parameters*, Meghan Monahan, M.S. Geography, May 2008.
- , *Evaluation of MODIS Data for Mapping Surface Water Turbidity in Puget Sound*, Michelle Howard, May 2010.
- , *Species Classification in Mixed Conifer Forests with Multispectral Remote Sensing*, Raechel Bianchetti, July 2010
- , *Integration of Small Footprint Lidar and Multispectral Data to Map Canopy Fuel Models*,

Humes, K.S., W.J. Fisher, J. Basara, K.C. Crawford, R.E. Elliot, 2001, Meson Manual, Oklahoma Climate Survey, University of Oklahoma.

Recent Invited Presentations:

The Water/Energy Nexus and Food Systems in Idaho and the Northwest, Malcolm M. Renfrew Interdisciplinary Colloquium, University of Idaho, November 27, 2018.

Professional Meeting Papers and Presentations:

Over 90 presentations, titles and dates available upon request

Grants and Contracts Awarded:

Current Research Support:

As P.I. or Team Leader:

, *Sustaining the Competitiveness of the Food*

- o *Improving Streamflow Forecasts in Snowmelt Dominated Basins*, Pacific Northwest Regional Collaboratory (Geospatial Consortium led by Pacific Northwest National Lab), funding

around the merging of remote sensing and Mesonet data for water and energy balance studies.

\$82,000 per year for three years (November 1996 - October 1999),.

Other funded grants (non-research):

As P.I.:

- , Teaching and Learning Grant from UI Vice- (approx. \$2800; 2000-2001 academic year) for the development of comparative and small group exercises in GEOG 483 and field trip for GEOG 100.

As Co-I:

- , Idaho State Board of Education, Development of Distance Education capabilities in Environmental Science, 2000, P.I., Karl Chang
- , Idaho State Board of Education, Distance Education Capabilities in Environmental Science, 2001, P.I., Margrit vonBraun.
- , Water of the West (WoW), 2006-2011, University of Idaho Presidential Strategic Initiative (P.I. Jan Boll) \$1.5 M to provide support for a new interdisciplinary degree program in Water Resources (M.S and Ph.D.), a new faculty line in water resource law, and several water education initiatives.
- , Sustainable Idaho: Learning Together, Leading the Way, 2006-2011, University of Idaho Presidential Strategic Initiative (P.I.s Christine Dixon, Environmental Science Program), \$350,000 for curriculum development and small research initiatives in sustainability.

Grants recently submitted – pending:

- , *Toward Understanding Current and Future Pressures on Water Supply/Use in the Eastern Snake Plain: Spatial Patterns of Drought, Sectorial Competition, Excess Nutrients and Water-Energy Interconnections*

- Session chair for sessions at annual meetings of the American Association of Geographers, 1997; the American Geophysical Union; 1994, 1995; the American Meteorological Society; 1999.
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