

CURRICULUM VITAE
ANYA B. BYERS

Department of Geography
University of Colorado
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EDUCATION

- M.A. **Geography, University of Colorado, Boulder, CO**
2012
(Expected) Emphasis: *Ecohydrology; Forest Ecology; Stable Isotope Geochemistry, GIS Modeling*
Advisor: Dr. Holly Barnard
- B.A. **Human Biology Program (with Honors), Stanford University, Stanford, CA**
2005 Emphasis: *Human Ecology and Sustainable Development*
Study abroad: The University of Cape Town, South Africa, July-Dec 2004
Honors thesis: *Remote Sensing of Vegetation Cover: A method to assess communal grazing patterns in the Succulent Karoo Biome.*
Advisors: Dr. William Durham and Dr. Hal Mooney

RESEARCH

- 2011 **Research Assistant**, Institute of Arctic and Alpine Research (INSTAAR) Ecohydrology Lab, University of Colorado at Boulder. Principal Investigator (P.I.): Dr. Holly Barnard
Topic: Subsurface hydrology and uptake in subalpine lodgepole pine forests; contributes to NSF-funded project on hydrological impacts of Mountain Pine Beetle-induced forest mortality at the Niwot Ridge Long Term Ecological Research (LTER) Site.
- 2004 **Visiting Undergraduate Researcher**, Institute for Plant Conservation, University of Cape Town, South Africa. P.I.: Dr. Timm Hoffman
Topic: Assessment of communal livestock grazing impacts in the arid Succulent Karoo Biome using ground truthing, satellite remote sensing (NDVI), and GIS techniques.
- 2003 **Field Assistant**, Biological Sciences, Stanford University, Stanford, CA. P.I.: Dr. Chris Field
Topic: Effects of global climate change on grassland plant diversity and reproduction at Stanford's Jasper Ridge Biological Preserve.

PROFESSIONAL EXPERIENCE

- 2008 – 2010 **Land Partnerships Manager**, Colorado Mountain Club, Golden, CO
Organized recreation management, land planning and conservation advocacy efforts. Developed volunteer stewardship partnerships on U.S. Forest Service & BLM lands.
- 2006 – 2008 **Restoration Manager / Volunteer Coordinator**, Colorado Fourteeners Initiative, Golden, CO
Implemented science-based trail restoration, monitoring and volunteer programs on Colorado's 14,000 ft. peaks. Managed successful fundraising and communication.
- 2005 – 2006 **Biodiversity Monitoring Technician**, Valles Caldera National Preserve, Jemez Springs, NM.
Study Area: Water quality, micrometeorology, prescribed fires, and trophic interactions. P.I. Dr. Robert Parmenter.
- 2005 **Biodiversity Monitoring Intern**, The Nature Conservancy, Boulder, CO.
Designed and implemented ecological monitoring protocols for aquatic, riparian and prairie habitat in eastern Colorado.
- 2003 **Stewardship Intern**, The Nature Conservancy, Boulder, CO.
Conducted field research related to grazing management and invasive species, produced monitoring maps and reports.

PRESENTATIONS

- 2011 Poster: *Ecohydrology of Lodgepole Pine Forests: Connecting Transpiration to Subsurface Flow Paths and Storage within a Subalpine Catchment*. American Geophysical Union Fall Meeting,

2011 San Francisco, CA
Poster: *Ecohydrology Within The Boulder Creek Watershed: New Investigations Of Water And Carbon Fluxes*. CU Boulder Hydrologic Sciences Symposium, Boulder, CO

TEACHING

2012 **Graduate Teaching Assistant**, University of Colorado
GEOG 1011: Landscapes and Water
Laboratory instructor for undergraduate physical geography course series. Taught weekly laboratory sessions, coordinated field trips, held office hours, and graded assignments and exams.

2011 **Graduate Teaching Assistant**, University of Colorado
GEOG 4371/5371: Forest Geography
Assisted with upper division undergraduate course on principles of forest geography and ecology, with an emphasis on forest dynamics and management. Held office hours, led field trips, and graded written assignments.

2010 – 2011 **Graduate Teaching Assistant**, University of Colorado
GEOG 1001: Climate and Vegetation; GEOG 1011: Landscapes and Water
Laboratory instructor. Taught weekly laboratory sessions, coordinated field trips, held office hours, and graded assignments and exams.

2003 – 2005 **Student Instructor**, Geological and Environmental Sciences, Stanford University, Stanford, CA.
GES 7a, b, c: Wilderness Skills
Taught outdoor field skills (backpacking, rock climbing, backcountry skiing).

PROFESSIONAL DEVELOPMENT

2012 University of Colorado Graduate Teacher Program Certification. Completion of pedagogical (Expected) workshops, faculty evaluation, video teaching evaluation, and teaching portfolio.

2010 CR1000 Datalogger/LoggerNet (CRBasic Programming) Training, Campbell Scientific, Logan, UT

2010 Colorado Native Plant Master, Colorado State University Extension

2009 Colorado Mountain Club Trip Leader

2008 Leave No Trace Master Educator

2006 Wilderness First Aid

GRANTS AND AWARDS

2011 American Geophysical Union (AGU) Student Travel Grant (\$500)

2008 Volunteers for Outdoor Colorado, Land Stewardship Volunteer of the Year Award (\$1,000)

2008 Leave No Trace Center for Outdoor Ethics, Master Educator Certification Scholarship (\$500)

2005 Stanford University Heidrich Award for best research proposal in Human Biology

2004 Stanford University Undergraduate Research Opportunities (URO) Major Grant (\$3,500)

2004 University of Colorado Federal Credit Union Scholarship (\$1,250)

2002 Ray Johnson Memorial Scholarship (\$1,000)

2001 Mary Elena and Bill Goodan Scholarship/Stanford Fund

PROFESSIONAL MEMBERSHIPS

2011 – 2012 American Geophysical Union (AGU)

2010 – 2012 Earth Sciences Women's Network (ESWN)

LEADERSHIP AND COMMUNITY OUTREACH

2011 CU Boulder Environmental Studies/INSTAAR Mentoring Program. Supervised and trained work-study student in laboratory and field work techniques.

2011 Research Experience in Solid Earth Sciences for Students (RESESS) Internship Program, UNAVCO. Assisted in supervising ecohydrology fieldwork and data analysis for minority undergraduate internship.

2011 Boy Scout Service Project at Gordon Gulch, Boulder Creek CZO

2011 Boulder Critical Zone Observatory 5th Grade Trips leader
2010 Wildlands Restoration Volunteers. Ecological restoration project volunteer on public lands.
2008-2009 Rocky Mountain Stanford Association Board Member and Community Service Chair. Active board member of regional alumni association. Planned and coordinated events.
2007 Member and Ride Organizer, Title Nine Women's Cycling Club Boulder, CO. Active member and ride coordinator for women's road cycling club.
2004-2005 President, Stanford Outdoors, Stanford University. Directed umbrella organization comprised of 7 outdoor recreation clubs.

COMPUTER SKILLS

ESRI ArcGIS (including Spatial Analyst, Geostatistical Analyst & ModelBuilder), Statistical (R, SPSS, JMP), MS Office, Adobe CS, Python, HTML, MS Windows and Mac Operating Systems.

LANGUAGES

Professional/working proficiency in written/oral French (six month immersion experience in France and Stanford upper division coursework).
Elementary proficiency in Spanish (coursework at the University of New Mexico and Boulder Lifelong Learning).