

# CURRICULUM VITAE

## James J. (Jim) Ebersole

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### EDUCATION

Ph.D. Plant Ecology, 1985. University of Colorado, Boulder. Major advisor: Dr. Patrick J. Webber. Dissertation: Vegetation disturbance and recovery at the Oumalik Oil Well, Arctic Coastal Plain, Alaska. 408 pp.  
B.A. Natural Science, 1977. Goshen College, Goshen, Indiana.

### EMPLOYMENT HISTORY

Professor, Department of Biology / Department of Organismal Biology and Ecology, Colorado College. 2002-2021  
Visiting Faculty Director, Associated Colleges of the Midwest semester in Tanzania: Ecology and Human Origins. Fall 2014  
Visiting Lecturer, Semester at Sea. Taught ecology, climates and vegetation of the world, and conservation biology during a circumnavigation with stops in Puerto Rico, Brazil, South Africa, India, Malaysia, Vietnam, China, Japan, Hawaii. Spring 2007  
Co-chair, Department of Biology, Colorado College. 2002-2006  
Assistant Chair, Department of Biology, Colorado College. 1999-2001  
Associate Professor, Department of Biology, Colorado College. 1994-2002  
Assistant Professor, Department of Biology, Colorado College. 1988-1994  
Visiting Faculty Member, Environmental Studies Specialty Area, The Evergreen State College, Olympia, WA. 1987-1988  
Statistician, GS-9, U.S. Forest Service, Denver, CO. 1986-1987  
Instructor, Physical geography: climate & vegetation, U of Colorado, Boulder. 1986-1987  
Director, interdisciplinary, undergraduate semester field course, Anchorage to Prudhoe Bay, Alaska. Supervised three other instructors. School for Field Studies, Cambridge, Massachusetts. 1985

### PUBLICATIONS      \*undergraduate co-author

#### Peer-reviewed Proceedings and Journal Articles

2020 \*Webster, L. and J. J. Ebersole. Understanding the human-animal interface: Maasai perceptions of dogs in northern Tanzania. *Society and Animals* 28:357-376. DOI: 10.1163/15685306-12341574

- 2017 \*Hägerling, H., G. and J. J. Ebersole. Roads as travel corridors for mammals and ground birds in Tarangire National Park, Tanzania. *African Journal of Ecology* 55:701–704 DOI: 10.1111/aje.12386
- 2017 \*Johnson, J. E. and J. J. Ebersole. Response of *Acacia tortilis* to elephant browsing in Tarangire National Park, Tanzania: possible above-ground compensation? *Journal of Young Investigators* 32:1-6. DOI: 10.22186/jyi.32.1.1-6
- 2016 Walker, D. A., and 35 others including JJE. 2016. The Alaska Arctic Vegetation Archive (AVA-AK). *Phytocoenologia* 46:221-229. DOI: 10.1127/phyto/2016/0128
- 2015 \*Davis, B. R. and J. J. Ebersole. Impala (*Aepyceros melampus*) associate with olive baboons (*Papio anubis*) for feeding and security in Tarangire National Park, Tanzania. *African Journal of Ecology* 54:238–241 DOI: 10.1111/aje.12263
- 2015 \*Greenler, S. M. and J. J. Ebersole. Bird communities in tropical agroforestry ecosystems: an under-appreciated conservation resource. *Agroforestry Systems* 89:691-704. DOI 10.1007/s10457-015-9805-y
- 2014 \*Sides, C. B., B. J. Enquist, J. J. Ebersole, M. N. Smith, A. N. Henderson, L. L. Sloat. Revisiting Darwin’s hypothesis: does greater intraspecific variability increase species’ ecological breadth? *American Journal of Botany* 101:56-62.
- 2011 \*Myerburg, M. M., J. J. Ebersole, \*L. G. Shoemaker, and M. S. Heschel. Limited plasticity of biomass allocation in alpine forbs, Pikes Peak, Colorado. *Western North American Naturalist* 71:431-435.
- 2009 \*Poore, R. E., C. A. Lamanna, J. J. Ebersole, and B. J. Enquist. Controls on radial growth of mountain big sagebrush and implications for climate change. *Western North American Naturalist* 69:556–562.
- 2008 \*Kempes, C. P., O. B. Myers, D. D. Breshears, and J. J. Ebersole. Comparing response of *Pinus edulis* tree-ring growth to five alternate moisture indices using historic meteorological data. *Journal of Arid Environments* 72:350-357.
- 2006 Lostroh, C. P., and J. J. Ebersole. Bio 2010-Evolution as an alternative organizing theme. *Council on Undergraduate Research Quarterly* 26:153-155.
- 2006 \*Bay, R. F. and J. J. Ebersole. Success of alpine turf transplants in restoring alpine trails, Colorado, USA. *Arctic, Antarctic, and Alpine Research* 38:173-178.
- 2003 \*McCain, E. B., \*J. I. Zlotoff, and J. J. Ebersole. Effects of elk browsing on aspen stand characteristics, Rampart Range, Colorado. *Western North American Naturalist* 63:129-132.
- 2002 Ebersole, J. J. Recovery of alpine vegetation on small, denuded plots, Niwot Ridge, Colorado, U.S.A. *Arctic, Antarctic, and Alpine Research* 34:389-397.

- 2002 Ebersole, J. J., \*R. F. Bay, and \*D. K. Conlin. Restoring high-alpine social trails on Colorado Fourteeners, U. S. A. pp. 389-391 in K. M. Urbanska and J. C. Chambers. High-elevation ecosystems. in A. J. Davy and M. Perrow, eds. Handbook of Restoration Ecology. Cambridge University Press, Cambridge.
- 2001 \*Conlin, D. B., and J. J. Ebersole. Restoration of an alpine disturbance: differential success of species in turf transplants, Colorado, U.S.A. *Arctic, Antarctic, and Alpine Research* 33:340-347.
- 2001 Forbes, B. C., J. J. Ebersole, and B. Strandberg. Anthropogenic disturbance and patch dynamics in circumpolar arctic ecosystems. *Conservation Biology* 15:954-969.
- 2000 \*Reynolds, J. L., and \*T. N. Feinstein, and J. J. Ebersole. Seedlings of Gambel oak near the northeastern limit of its range. *Western North American Naturalist* 60:225-227.
- 1999 \*Terranella, A. C., \*L. Ganz, and J. J. Ebersole. Western harvester ants prefer nest sites near roads and trails. *The Southwestern Naturalist* 44:382-384.
- 1997 \*Tonnesen, A. S. and J. J. Ebersole. Human trampling effects on regeneration and age structures of *Pinus edulis* and *Juniperus monosperma*, Garden of the Gods, Colorado. *Great Basin Naturalist* 57:50-56.
- 1994 Bennett, J. P., R. L. Anderson, M. L. Mielke, and J. J. Ebersole. Foliar injury air pollution surveys of eastern white pine (*Pinus strobus* L.): A review. *Environmental Assessment and Monitoring* 30:247-274.
- 1994 \*Enquist, B. J. and J. J. Ebersole. Effects of added water on photosynthesis of *Bistorta vivipara*: the importance of water relations and leaf nitrogen in two alpine plant communities, Pikes Peak, Colorado, U.S.A. *Arctic and Alpine Research* 26:29-34.
- 1989 Ebersole, J. J. Role of the seed bank in providing colonizers on a tundra disturbance in northern Alaska. *Canadian Journal of Botany* 67:466-471.
- 1987 Ebersole, J. J. Short-term recovery at an Alaskan Arctic Coastal Plain site. *Arctic and Alpine Research* 19:442-450.
- 1983 Ebersole, J. J. and P. J. Webber. Plant succession and biological decomposition following disturbance on the Arctic Coastal Plain, Alaska. *Permafrost - Fourth International Conference Proceedings*. National Academy Press, Washington, D.C. pp. 266-271.

### Additional Published Student Papers to which I Contributed

In press Lane, A. Are human infants adapted to a multiple-caregiver environment? An ethological analysis of infant behavior towards caregivers among the Maasai of northern Tanzania. *Anthropology: Bachelors to Doctorates*.

2016 Ebersole, T. and A. Alfaro Obando. Knowledge and beliefs about the Red Cross: Perspectives of community members and Red Cross workers in San Ramón, Alajuela, Costa Rica. *Cuadernos de Investigación UNED* 8:41-48.

### Data Sets and Edited Compilations

2017 Ebersole, J.J., and D.A. Walker. 2017. Pre-ABOVE: Arctic Vegetation Plots, Oumalik, Alaska, 1983-1985. ORNL DAAC, Oak Ridge, Tennessee, USA.  
<https://doi.org/10.3334/ORNLDAAC/1506>

1993 Ebersole, J. J. and M. A. Farris, eds. Ideas and exercises for actively involving students in ecology classes. Summary of a workshop at the annual meeting of the Ecological Society of America, July, 1993, Madison, WI. Available at:  
<http://www.ibiblio.org/pub/academic/biology/ecology+evolution/teaching/workshop.esa/> 166 Kbytes (ca. 75 pp.)

### Abstracts, Presentations, and Papers in Proceedings (recent)

2015 D.A. Walker and 36 others including J.J. Ebersole. 2015. A hierarchic approach for examining panarctic vegetation with a focus on the linkages between remote-sensing and plot-based studies: A prototype example from Toolik Lake, Alaska. American Geophysical Meeting, 14-19 Dec 2015, San Francisco, CA, Abstract no. B53C-0577.

2015 Breen, A. and 23 others including J. J. Ebersole. The Alaska Arctic Vegetation Archive (Alaska-AVA): A report on the status of the Arctic Vegetation Archive and an application in northern Alaska, focusing along the Dalton Highway. 58th Annual Meeting of the International Association for Vegetation Conference, 19-24 July 2015, Brno, Czech Republic.

2014 Ebersole, J. J. 2014. Natural and anthropogenically disturbed vegetation at the Oumalik Oil Well, Arctic Coastal Plain, Alaska. Pp. 27-30 in: Walker, D. A. (ed.) Alaska Arctic Vegetation Archive (AVA) Workshop, Boulder, Colorado, USA, October 14-16, 2013. Conservation of Arctic Flora and Fauna (CAFF) Proceedings Report 11. Akureyri, Iceland. ISBN 978-9935-431-29-5.

2013 Colby B. Sides, B. J. Enquist, J. J. Ebersole, A. N. Henderson, L. L. Sloat, and M. N. Smith. Revisiting Darwin's hypothesis: does greater intraspecific variability increase species' ecological breadth? (abstract) Ecological Society of America 98<sup>th</sup> Annual Meeting, August 2013, Minneapolis, MN.

2004 Ebersole, J. J., R. F. Bay and D. B. Conlin. Alpine vegetation restoration of social trails on Colorado's 14,000-foot peaks. Society for Ecological Restoration Annual Meeting, August 2004, Victoria, British Columbia.

2004 Kempes, C., D. Breshears, and J. Ebersole. Tree growth and water deficit: A comparison of ring widths with alternate indices. (abstract). Ecological Society of America Annual Meeting, August 2004, Portland, Oregon.

2003 R. F. Bay and J. J. Ebersole. Creating safe-sites for natural seedling establishment as a strategy for restoring alpine trails in Colorado. (abstract). Twenty-eighth annual meeting of the Guild of Rocky Mountain Population Biologists. 19-21 September 2003. Mountain Research Station, University of Colorado, Boulder, CO.

2001 Ebersole, J. J., R. F. Bay and D. B. Conlin. Alpine vegetation restoration of social trails on Colorado's 14,000-foot peaks. High Altitude Revegetation Workshop No.15. 6-8 March 2002. Fort Collins, CO.

#### Reports (recent)

2000 Byers, B., J. Ebersole, and Mark Hesse. Garden of the Gods Restoration Report: I. Summary, II. Current Conditions and Recommendations, III. Implementation Guide. Report from Rocky Mountain Field Institute to Colorado Springs Parks and Recreation Department. 15, 64, and 104 pp. + 8 rolled maps. \*\*Received Annual Partnership for Community Design award as a planning effort that improves livability of the Colorado Springs area.\*\*

2000 Bay, R. and J. Ebersole. Mount Harvard Restoration Plan. Final report to Colorado Fourteeners Initiative, Golden Colorado. 11 pp. + 4 maps + 152 slides.

2000 Bay, R. and J. Ebersole. Mount Huron Restoration Plan. Final report to Colorado Fourteeners Initiative, Golden Colorado. 11 pp. + 4 maps + 59 slides.

#### **REVIEWER OF MANUSCRIPTS, PROPOSALS, AND TEXTS (recent)**

*Annales Botanici Fennici*

*Arctic, Antarctic & Alpine Rsrch*

*American Biology Teacher*

*Applied Vegetation Ecology*

*Bulletin of Torrey Botanical Club*

*Ecology*

*Environmental Pollution*

*Great Basin Naturalist*

*Journal of Ecology*

*Plant Ecology*

*Polar Research*

*Restoration Ecology*

*Southwest Naturalist*

National Science Foundation

## CONFERENCES ORGANIZED

- Guild of Rocky Mountain Population Biologists 23rd annual meeting (with Y. Linhart and M. Snyder). Colorado College Baca campus. 19-21 September 1997
- Guild of Rocky Mountain Population Biologists 22nd annual meeting (with Y. Linhart and M. Snyder). Colorado College Baca campus. 20-22 September 1996

## INVITED PRESENTATIONS (recent)

- Alpine vegetation restoration of social trails on Colorado's 14,000-foot peaks. Café Scientifique, Colorado Springs. November 2005.
- Garden of the Gods: An ecological crossroads under threat. Public lecture sponsored by Friends of Garden of the Gods. 2 May 2005
- Ecological restoration in the alpine zone of Colorado's high peaks. University of Denver Biology Department, 4 April 2005.
- Alpine vegetation restoration of social trails on Colorado's 14,000-foot peaks. With R. F. Bay and David B. Conlin, undergraduates, as junior authors. High Altitude Revegetation Workshop No.15. Fort Collins, Colorado, 6-8 March 2002.
- Garden of the Gods Restoration Report. Pikes Peak Chapter, Sierra Club. 2001
- Service learning in Environmental Science's capstone course. With Sally Meyer. Teaching and Learning Center, Colorado College. 1999

## GRANTS, CONTRACTS, AND FELLOWSHIPS

### External

- Colorado Fourteeners Initiative. PI, with Robin Bay; *Restoration plans for Mount Harvard and Mount Huron*. 2000 \$3750
- Colorado Springs Parks and Recreation Department. With Bruce Byers and Mark Hesse; through Rocky Mountain Field Institute. *Garden of the Gods Reclamation Plan*. 1999 \$66,000
- National Science Foundation Research Opportunity Award. Through Marine Biological Laboratory, Woods Hole, Long-Term Ecological Research Program. *Long-Term Recovery of Arctic Vegetation*. 1995 \$13,105 plus ca. \$13,000 in logistical support
- National Science Foundation Research Opportunity Award. Through University of Colorado, Boulder, Long-Term Ecological Research Program. *Long-Term Recovery of Alpine Vegetation*. 1994 \$6288
- Tufts University; to serve as evaluator of software in BY220 Statistical Analysis. National Science Foundation Fund for the Improvement of Postsecondary Education grant to Co-PI's R. Chechile and G. Smith, *Detailed Evaluation of a Novel Approach to Curricular Software*. 1993 \$1300
- Danforth Graduate Fellowship. 1978-1982
- National Science Foundation Graduate Fellowship. 1978-1981

### Colorado College grants (recent)

- Mellon Language Course Development Grant to plan foreign-languages-across-the-

curriculum course on ecology and land use in Spanish Pyrenees, 2012 \$4000.  
Mellon funds to study Spanish in Spain, 2011 \$2436.  
Development blocks, academic years 1989-1990, 1990-1991, 1991-1992, 1992-1993,  
1995-1996, 1996-97, 1997-98, 1998-99, 1999-2000, 2000-2001.  
Scholarly visits grant; travel to Denmark to meet with two arctic researchers to plan  
collaborative paper. 1995 \$1350  
Divisional research grants: multiple; to study alpine restoration and spatial and  
temporal variation in seed production of Gambel oak

## **COLORADO COLLEGE COURSES TAUGHT**

(in 2015, the course prefix BY became BE)

BY100 Plants: Diversity and Uses. 4 times. I developed this class for non-majors.  
BY100/EV120 Ecology and Land Use in the Pyrenees (a foreign languages across the  
curriculum course in Spanish, co-taught with a native speaker). 1 time 2013  
BY100/EV120 Conservation and Culture in East Africa. 1 time, 2002. Team-taught  
with environmental policy faculty member.  
EV120 Ecology and Conservation in Namibia. I developed the course. 1 time, 2010.  
EV120 Tropical Cloud Forest Ecology. 1 time. Co-taught in Costa Rica as part of the  
First Semester Away program. 1 time  
BY105 Biology of Plants/The Flowering Plant. 23 times.  
NS200 Geology and Ecology of the Southwest. 1 time. Team-taught with  
geologist.  
AN208/EV120 Sustainable Practices in the Arctic North - Land of the Inuit,  
Caribou, & Seal. 1 time, 2007. Team-taught with anthropologist.  
BY220 Statistical Analysis. 28 times. I modified this class to go beyond the  
standard set of statistical tests covered in introductory texts to include  
experimental design and original student research projects.  
BY208 Ecology. 28 times. I developed this class with other ecologically oriented  
faculty.  
BY308 Ecology. 8 times. While covering up-to-date content, I focused on building  
critical thinking skills and learning how to raise and address scientific  
questions.  
BY308 Advanced Ecology. 21 times. I developed this course, which includes  
graduate-style seminar presentations, writing and critiquing proposals, and  
group field projects.  
BY389/390 Ecology and Biogeography of Patagonia. 5 times. I co-developed this  
course, which spends two weeks on campus and 3.5 weeks in Patagonia.  
We emphasize analysis and critique of original literature and interacting  
with Argentine scientists at their field sites.  
BY362 Plant Ecology. 5 times. I developed this class when I first arrived at CC.  
EV411 Research Topics in Environmental Science. 1 time. Team-taught with S.  
Meyer, Chemistry. We designed the course and taught it for the first time.  
BE440 Ecology and Conservation in Tanzania. 2 times. I developed this course  
which spent 3.5 weeks in northern Tanzania.

## UNDERGRADUATE STUDENT RESEARCH SUPERVISED (recent)

\* winner of Biology's Beidleman Award for most promising field student

\*\* winner of Biology's Hamilton Award for most outstanding graduate

\*\*\*winner of Biology's Enderson award for most outstanding student in conservation

<sup>2</sup> I was the second advisor of thesis

## Colorado College Honors Theses (recent)

- 2018-2019 Leah Veldhuisen<sup>2</sup>, Life history and ecology of several species of *Puya*
- 2015-2016 \*\*Brooke Davis, Impala associate with baboons for feeding and security
- 2013-2014 \*Skye Greenler, Tropical bird use of an agricultural landscape mosaic  
Rebecca Lehman, CO<sub>2</sub> responses of two plant species in a warmed meadow
- 2012-2013 Phoebe Parker-Shames<sup>2</sup>, Bat use of tents created in leaves
- 2011.2012 Claire Daniel, Biology, Growth of a medicinal shrub in agricultural settings  
\*\*Colby Sides, Biology, Determinants of sp turnover in subalpine meadows
- 2010-2011 \*\*Lauren Shoemaker, Biology, Modeling reef fish assemblages
- 2007.2008 \*\*\*Becky Poore, Biology, Limitations on sagebrush growth with elevation  
Jessica Rohde, Fire effects on water quality and stream invertebrates
- 2005.2006 \*\*\*Lisa Auchincloss, Biology, Spatial variation in alpine seed viability  
\*Marion Glaser, Biology, Turf plug effectiveness to restore alpine vegetation
- 2004.2005 \*\*\*Stella Copeland, Biology, Fire effects on rare plants, Siskiyou Mts.  
Laurel Schoenbohm<sup>2</sup>, Biology, Fire effects on water quality and benthic inverts
- 2003.2004 Tim Moore, Biology, Forest succession, wet montane forest, New Zealand.  
\*Summer Lockett, Biology, Encapsulation by rainforest Lepidopteran larvae.
- 2002.2003 Jen Schripsema<sup>2</sup>, Biology, Soil properties and N flux along an urban gradient.  
\*Meredith Albright, Biology, Effects of warming on phenology of alpine forbs.
- 2000-2001 \*Bonnie Keeler<sup>2</sup>, Biology, Organic matter of prairie paleosols and surface soils
- 1999-2000 \*\*\*Robin Bay, Biology, Restoration of alpine vegetation.  
\*\*\*Charity Hall<sup>2</sup>, Biology, Flora of foothills canyons near Colorado Springs.  
\*Emil McCain<sup>2</sup>, Biology, Association of jaguar and turtle activity patterns.  
Cathy Stewart<sup>2</sup>, Biology, Manipulated precipitation effects on tall-grass spp.



Presentations by undergraduates I supervised (recent)

Ecological Society of America 98<sup>th</sup> Annual Meeting, August 2013, Minneapolis, MN:

Colby B. Sides, B. J. Enquist, J. J. Ebersole, A. N. Henderson, L. L. Sloat, and M. N. Smith. Revisiting Darwin's hypothesis: does greater intraspecific variability increase species' ecological breadth?

West Coast Biological Sciences Undergraduate Research Conference 37<sup>th</sup> Annual Meeting, April 2012, Loyola Marymount University, Los Angeles:

Colby Sides: The role of intraspecific variability in community assembly processes and species ecological breadth.

Ecological Society of America Annual Meeting, August 2004, Portland, Oregon:

Kempes, Christopher, D. Breshears, J. J. Ebersole. Tree growth and water deficit: A comparison of ring widths with alternate indices.

West Coast Biological Sciences Undergraduate Research Conference 29<sup>th</sup> Annual Meeting, April 2004, Point Loma Nazarene University, San Diego:

Tim Moore: Montane rainforest succession on landslides at Lake Thomson, Fiordland, New Zealand.

West Coast Biological Sciences Undergraduate Research Conference 28<sup>th</sup> Annual Meeting, April 2003, Colorado College:

Albright, Meredith: The potential effects of global climate change on the phenology of two alpine herbs in the Colorado Front Range.

Front Range Student Ecology Symposium 7<sup>th</sup> Annual Meeting, March 2001, Colorado State University, Fort Collins:

Keeler, Bonnie: Soil organic matter composition of paleosols and contemporary soils of a semiarid shortgrass steppe. Winner, best paper in session.

West Coast Biological Sciences Undergraduate Research Conference 25<sup>th</sup> Annual Meeting, April 2000, Point Loma Nazarene University, San Diego:

Bay, Robin: Natural and assisted revegetation of alpine hiking trails, Mount Belford and Humboldt Peak, Colorado.

**COMMUNITY SERVICE** (recent)

Presentations on alpine ecology to Earth Corps groups in Sangre de Cristo Mts., Rocky Mountain Field Institute. 2008-2009

Garden of the Gods Advisory Committee, Colorado Springs Park and Recreation Department. 1995-2001

Project oversight teams for Grays & Torreys and Missouri Peaks, Colorado Fourteeners Initiative. 1999-2000

Contributor to grant for \$52,720 to Great Outdoors Colorado from Colorado Springs Park and Recreation Department; for restoration of Garden of the Gods. 1998