

# ROSS GELLER

555 LEONARD ST • FT COLLINS, CO 80525 • PHONE: 970-555-1517 • E-MAIL: RGELLER@CNR.COLOSTATE.EDU

## EDUCATION

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### PH.D. – RANGELAND ECOLOGY

*Colorado State University, Department of Forest, Rangeland, and Watershed Stewardship*

- ◆ Dissertation Topic: Spatial and temporal dynamics of rangeland grasshopper communities.
- ◆ Advisor: Dr. Dennis Child

December 2005  
Fort Collins, CO

### M.S. – BIOLOGICAL SCIENCES

*Montana State University, Department of Biology*

- ◆ Thesis Topic: Plant and grasshopper community indicators and interactions at three spatial scales.
- ◆ Advisor: Dr. William P. Kemp

May 2002  
Bozeman, MT

### B.A. – BIOLOGY

*Carroll College, Department of Biology*

- ◆ Honors Thesis Topic: Zooplankton population peaks, their temporal occurrence, and correlation with temperature and light intensity.
- Advisor: Dr. Jean E. Smith

May 1995  
Helena, MT

## RESEARCH EXPERIENCE

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### GRADUATE RESEARCH ASSISTANT

*Department of Forest, Rangeland and Watershed Stewardship, Colorado State University*

**Focus:** Research activities in the Department of Forest, Range and Watershed Stewardship.

- ◆ Edit, compile and analyze grasshopper and plant survey data sets.
- ◆ Write and implement data-formatting and analysis programs in SAS.
- ◆ Perform spatial, statistical, and data analyses on grasshopper and environmental data.
- ◆ Compute variograms and kriged surfaces
- ◆ Generate GIS data sets from raw geographic data.
- ◆ Perform map projections.
- ◆ Perform multivariate analyses.
- ◆ Utilize ArcInfo, ArcView, S-PLUS, SAS, SPSS, Excel and Corel software to perform analyses.

July 2004–present  
Fort Collins, CO

### GRADUATE RESEARCH ASSISTANT

*USDA-ARS Rangeland Insect Laboratory*

**Focus:** Research activities for Rangeland Insect Laboratory.

- ◆ Entered, edited, compiled, and analyzed grasshopper and plant survey data sets.
- ◆ Wrote and implemented data-formatting and analysis programs in SAS.
- ◆ Performed statistical and detrended correspondence analyses.
- ◆ Generated GIS data sets from raw geographic data.
- ◆ Performed map projections and overlays, and spatial analyses.
- ◆ Extracted site-attribute information from STATSGO soil data sets.
- ◆ Utilized ArcInfo, SAS, PEdit, and CANOCO software programs.
- ◆ Prepared two manuscripts for publication in refereed journals.

August 1999–June 2003  
Bozeman, MT

**VOLUNTEER FIELD RESEARCHER**

*Montana Department of Fish, Wildlife, and Parks*

May-August 1992

Libby, MT

**Focus:** Field research activities for Department of Fish, Wildlife, and Parks to determine amount of food available for salmon fry during the summer months.

- ◆ Established two semi-permanent sampling sites in Bull Lake.
- ◆ Collected and preserved zooplankton with a weighted filtering net.
- ◆ Measured water temperature using an electronic probe.
- ◆ Measured light-intensity using a photometer and Pysch. disk.
- ◆ Collected stratified subsamples of zooplankton for counts.
- ◆ Counted four general of crustacean zooplankton under a dissecting microscope.

**TEACHING EXPERIENCE**

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**GRADUATE TEACHING ASSISTANT**

*Department of Forest, Rangeland and Watershed Stewardship, Colorado State University*

August 2003-June 2004

Fort Collins, CO

**Focus:** Assisting professors in the teaching of undergraduate courses in introductory ecology, primary production, and range management.

- ◆ Developed class materials, including quizzes and group projects.
- ◆ Supervised and graded exams and quizzes.
- ◆ Led numerous class discussions and lectures on a variety of range ecology topics.

**MATH AND SCIENCE TEACHER**

*Blue Sky School District*

August 1996-June 1999

Rudyard, MT

**Focus:** Developing and teaching courses to seventh and eighth graders in life science, physical science, and mathematics.

- ◆ Prepared and implemented daily lesson plans and assignments.
- ◆ Developed, conducted, and supervised laboratory activities.
- ◆ Wrote, administered, and graded tests and quizzes.
- ◆ Communicated student progress with parents.
- ◆ Maintained a safe and engaging learning environment for students.
- ◆ Supervised planning, development and presentation of science fair projects for local and state competitions.
  - Awarded 2<sup>nd</sup> place trophy for junior high school division at state science fair.
- ◆ Served as faculty adviser for student science club and helped organize and manage club's fundraising efforts.

**PUBLICATIONS AND MANUSCRIPTS**

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Geller, R.E. 2005. Oil-splitting in fulmars: an example of chemical defense in birds? [Web Page]. Located at: [http://www.colostate.edu/Depts/Entomology/courses/en750/papers\\_2005/geller.html](http://www.colostate.edu/Depts/Entomology/courses/en750/papers_2005/geller.html).

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Geller, R.E. & K.M. Fallon. 2002. Plant and grasshopper community composition: Indicators and interactions across three spatial scales. Unpublished master's thesis.

K.M. Fallon. 1997. Zooplankton population dynamics in Bull Lake, Lincoln County, Montana. Unpublished honor's thesis.

## MEETINGS AND PRESENTATIONS

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Geller, R.E. 2005. Methods for sampling insect populations and communities. Invited lecture for NR 581: Methods in Community Ecology, Colorado State University, Fort Collins, CO, September 2005.

Geller, R.E., R.D. Child & T.O. Holloway. Rangeland grasshopper community ecology and population dynamics. Poster presentation at the Front Range Student Ecology Symposium, Colorado State University, Fort Collins, CO, March 2005.

Geller, R.E. Indicators of plant and grasshopper community composition in Montana and Colorado. Contributed presentation at Forest, Rangeland, and Watershed Stewardship Departmental Seminar, Colorado State University, Fort Collins, CO, September 2003.

Geller, R.E. Modeling grasshopper communities with a stochastic density-dependence model. Invited presentation at Ecology and Evolution Discussion Group, Montana State University, Bozeman, MT, April 2003.

## LEADERSHIP EXPERIENCE

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**ORGANIZER, *The Orthopterists' Society Annual Conference*** 2005

- ◆ Wrote and distributed call for papers.
- ◆ Coordinated abstract submission process for 19 scientific papers.
- ◆ Assisted authors with online submission of abstracts.
- ◆ Scheduled more presentations than any other section of conference
- ◆ Corresponded with authors and program staff via email and phone conversations.

**ORGANIZER/HOST, *Guest Lecture and Workshop by Dr. J.A. Onsager*** 2005

- ◆ Scheduled Dr. Onsager's itinerary.
- ◆ Coordinated travel, lodging, meals, audio/visual equipment, and room arrangements.
- ◆ Created and distributed flyers to advertise lecture and workshop.
- ◆ Worked with the Range Ecology Graduate Student Association officers to coordinate event.

**STUDENT VOLUNTEER, *Entomological Society of America Pacific Branch Conference*** 2003

**STUDENT VOLUNTEER, *Entomological Society of America National Conference*** 2003

## SPECIALIZED TRAINING

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- ◆ Independent Study in Discriminant Analysis – with Dr. C.D. Bonham, Colorado State University, Fall 2004
- ◆ Graduate Course in Spatial Statistics – Colorado State University, Spring 2004
- ◆ Graduate Course in Stochastic Processes – Montana State University, Spring 2003
- ◆ ESRI Certification Training on ArcInfo – Montana State University, December 1999

## TECHNICAL SKILLS

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### GEOGRAPHIC INFORMATION SYSTEMS

- ◆ ArcInfo
- ◆ ArcView
- ◆ IDRISI

### STATISTICAL SOFTWARE

- ◆ SAS
- ◆ S-Plus
- ◆ SPSS

### DATABASE MANAGEMENT/WORD PROCESSING

- ◆ MS Access
- ◆ MS Excel
- ◆ MS Word

### LANGUAGES

- ◆ Fortran
- ◆ C++

**PROFESSIONAL MEMBERSHIPS**

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Society for Range Management	Member since 2005
Entomology Club	Member since 2004
Range Graduate Student Association	Member since 2003
Entomological Society of America	Member since 2002
The Orthopterist's Society	Member since 2002

**SCHOLARSHIPS AND FELLOWSHIPS**

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University Graduate Fellowship Award (\$6000), Colorado State University	2004-2005
Outstanding Graduate Student Fellowship (\$17,200), Montana State University	2002
Presidential Graduate Scholarship (\$1000), Montana State University	1999
Renewable Honor Scholarship (\$1500/year), Carroll College	1991-1995

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*Carroll College, Department of Biology* Helena, MT

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♦ Prepared two manuscripts for publication in refereed journals.
- VOLUNTEER FIELD RESEARCHER** May-August 1992  
*Montana Department of Fish, Wildlife, and Parks* Libby, MT  
♦ Established two semi-permanent sampling sites in Bull Lake.  
♦ Collected and preserved zooplankton with a weighted filtering net.  
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♦ Developed class materials, including quizzes and group projects.  
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