

## **CURRICULUM VITAE: DIANA M. OLIVERAS**

Baker Residential Academic Program  
Natural Science First Year Academic Experience (NS FYAE)  
University of Colorado, Boulder, Colorado 80309-0176  
Diana.Oliveras@colorado.edu

### **EDUCATION**

Ph.D., Biology, University of New Mexico, 1991  
M.S., Zoology, University of Massachusetts, 1984  
B.A., Biology/Psychology, Dickinson College, 1980

### **POSITIONS HELD**

Associate Director, Baker Residential Academic Program, 2018-present  
Associate Director, Natural Sciences First Year Academic Experience, AY 2020-2021  
Member, RAP Teaching Quality Framework/Faculty Learning Community (TQF/FLC)  
Instructor, Health Professionals Residential Academic Program, 2013-present  
Instructor, Baker Hall Residential Academic Program, 1995, 1996-present  
Instructor, Sewall Residential Academic Program, 2010-present  
Instructor, Farrand Residential Academic Program, 2010-2013  
Treasurer, Sigma Xi 2009-2017  
Assistant to the Treasurer, Sigma Xi 2008  
Interim Director, Baker Residential Academic Program, summer 2005, 2006  
Laboratory Specialist, University of Virginia, 1991-1995  
Visiting Research Scholar, University of Virginia, 1991-1992  
Ford Foundation Doctoral Fellow, 1990-1991  
Research Assistant, University of New Mexico, 1986, 1988-1990  
Teaching Assistant, University of New Mexico, 1987  
Research Technician, University of Massachusetts, 1984-1985  
Coordinator, Introductory Zoology labs, University of Massachusetts, 1984  
Teaching Assistant, University of Massachusetts, 1981-1984  
Teaching Assistant, Dickinson College, 1977-1980

### **AWARDS AND HONORS**

Civic Achievement Award, Campus Sustainability Awards Committee, University of Colorado, 2015.  
Residence Life Academic Teaching award, Dept. of Housing and Dining, University of Colorado, three awards, 2004-05  
Marinus Smith Award, Parents Association, University of Colorado, 2005  
Certificate of Academic Excellence, Committee on Learning and Academic Support Services, University of Colorado, 2001  
Certificate of Academic Excellence, Department of Housing and National Residence Hall Honorary, University of Colorado, 1999  
RAP Council Mini-Grants for Honoraria Faculty, University of Colorado, 1998  
Pratt Fellowship, Mountain Lake Biological Station, 1991  
Doctoral Fellowship for Minorities, Ford Foundation, 1990-91  
Legislatively Endowed Fellowship, University of New Mexico, 1990  
Graduate Achievement Award, University of New Mexico, 1990

### **GRANTS**

Agricultural Practices on Boulder County Open Space: Implications for Bee Conservation, Undergraduate Research Opportunities Program, \$15,000; 2015

Assessing Bumblebee Populations (*Bombus* spp.) Along the Front Range. Biological Undergraduate Research Skills & Training (BURST), \$2500; 2013

The effects of urbanization on pollinator abundance and diversity. Undergraduate Research Opportunities Program, four awards totaling \$13,700; 2002-05

The effects of urbanization on pollinator abundance and diversity. City of Boulder Open Space and Mountain Parks 2002 Small Grants Research Program. \$1,797.28; 2002

The effects of floral age and plant age on the mating success of wild radish, *Raphanus sativus*. Graduate Student Association and Office of Research, University of New Mexico, \$150; 1990

The effects of floral age and plant age on the mating success of wild radish, *Raphanus sativus*. Department of Biology, University of New Mexico, \$250; 1990

Natural and sexual selection: investigating the nature of their interaction using a *Drosophila melanogaster* model system. Graduate Student Association, Office of Research, and College of Arts and Sciences, University of New Mexico, six awards totaling \$1179; 1987-90

Natural and sexual selection: investigating the nature of their interaction using a *Drosophila melanogaster* model system. Department of Biology, University of New Mexico, four awards totaling \$577; 1987-90

Mating preferences in a monogamous cichlid fish. Sigma Xi: Grant-in-Aid Research, \$450; 1987

Mating preferences in a monogamous cichlid fish. Graduate Student Association and Office of Research, University of New Mexico, \$225; 1987

Mating preferences in a monogamous cichlid fish. Department of Biology, University of New Mexico, \$225; 1987

## **TEACHING EXPERIENCE**

Instructor: Introductory Biology for science majors (EBIO 1210, 1220), Biology: A Human Approach (EBIO 1030, 1040), Honors General Biology (EPOB 1610), Cellular Physiology (EBIO 2060), Genetics (EBIO 2070), Environmental Issues and Biology (EPOB 2010), Plagues, Diseases and People (MCDB 1030), Honors Biology (HONR 1001), Introduction to Integrated Physiology (IPHY 1010) - University of Colorado.

Invited Lecturer: Honors World Music – University of Colorado

Invited Lecturer: Animal Physiological Ecology, Plant Physiological Ecology, and Behavioral Ecology - University of New Mexico.

Teaching Assistant: Introductory Biology, Genetics - University of New Mexico.

Teaching Assistant: Introductory Zoology, Experimental Methods in Psychology - University of Massachusetts.

Teaching Assistant: Experimental Psychology - Dickinson College.

Bilingual Tutor: Introductory Zoology, Psychology, and Genetics for students whose first language was not English - University of Massachusetts.

Teacher: a variety of classes to both English- and Spanish-speaking students with learning disabilities - Centro de Terapia Educativa, Puerto Rico.

## PH.D. DISSERTATION

Natural and sexual selection: using a *Drosophila melanogaster* model system to investigate the nature of their interaction.

## M.S. THESIS

A comparison of paternal behavior in the meadow vole (*Microtus pennsylvanicus*), the pine vole (*M. pinetorum*) and the prairie vole (*M. ochrogaster*).

## PAPERS PUBLISHED

Kearns, CA, DM Oliveras, C Lay. 2017. Monitoring the conservation status of bumblebee populations across an elevational gradient in the Front Range of Colorado. *J Insect Conservation* 1-10. DOI: 10.1007/s10841-017-9954-6 <http://link.springer.com/article/10.1007/s10841-017-9954-6>

Kearns, CA and DM Oliveras. 2009. Environmental factors affecting bee diversity in urban and remote grassland plots in Boulder, Colorado. *J Insect Conservation* 13:655-665.

Kearns, CA and DM Oliveras. 2009. Boulder County bees revisited: a resampling of Boulder Colorado bees a century later.. *J Insect Conservation* 13:603–613.

Kearns, CA in collaboration with DM Oliveras and BF Forrest. 2007. solicited Case Study for the State of the World's Pollinators Report; United Nations Conservation on Biological Diversity. Invited by the International Pollinators initiative. Title: The effects of urbanization on pollinator abundance and diversity. <http://www.fao.org/ag/AGP/AGPS/Default.htm> under C-Cap group pollinators Case Studies.

Marshall, DL, J. Reynolds, NJ Abrahamson, HL Simpson, MG Branes, JS Medeiros, S Walsh, DM Oliveras, JJ Avritt. 2007. Do differences in plant and flower age change mating patterns and alter offspring fitness in *Raphanus sativus* (Brassicaceae)? *American Journal of Botany* 94(3) 409-418.

Marshall, DL and D. Oliveras, 2001. Does differential seed siring success change over time or with pollination history in wild radish, *Raphanus sativus* (Brassicaceae). *American Journal of Botany*. 88(12): 2232-2242.

Smits, A, W Burggren & D Oliveras. 2000. Developmental changes in *in vivo* cardiac function in the moth, *Manduca sexta*. *Journal of Experimental Biology*. 203: 369-378.

Marshall, DL & DM Oliveras. 1990. Is regulation of mating within branches possible in wild radish (*Raphanus sativus*\_L)? *Functional Ecology* 4:619-627.

Karron, JD, DL Marshall & DM Oliveras. 1990. Numbers of sporophytic self-incompatibility alleles in populations of wild radish. *Theoretical and Applied Genetics* 79:457-460.

Oliveras, DM & MA Novak. 1986. A comparison of paternal behaviour in the meadow vole (*Microtus pennsylvanicus*), the pine vole (*M. pinetorum*) and the prairie vole (*M. ochrogaster*). *Animal Behaviour* 34:519-526.

Oliveras, DM & MA Novak. 1984. Paternal behavior as an indicator of social organization in *Microtus pennsylvanicus*, *M. pinetorum* and *M. ochrogaster*. *Proceedings of the Eighth Eastern Pine and Meadow Vole Symposium* PP 61-72.

## PAPERS PRESENTED

Kearns, CA, DM Oliveras, C Lay. 2017. Monitoring the conservation status of bumblebee populations across an elevational gradient in the Front Range of Colorado. *Ecological Society of America*, 2017

Kearns, CA, DM Oliveras, B Bruffey, S Hawkins. Patterns in bumblebee populations across five years in Boulder County. GREEBs, 2014.

Kearns, CA, DM Oliveras, B Bruffey, S Canter, Z Praggastis. Bumblebee population monitoring: interesting notes from the field. GREEBs, 2013 (meeting canceled due to flooding).

Oliveras, DM. Integrative learning fosters critical thinking skills. Guild of Rocky Mountain Population Biologists, 1998.

Oliveras, DM. The effects of mate choice on sons' mating success and daughters' fecundity in *Drosophila melanogaster*. Guild of Rocky Mountain Population Biologists, 1991.

Avritt, J and DM Oliveras. The effect of plant age and flower age on the mating success of pollen donors in wild radish. Guild of Rocky Mountain Population Biologists. 1991.

Oliveras, DM. Natural selection and sexual selection: the nature of their interaction. American Society of Zoologists. 1990.

Oliveras, DM. Natural and sexual selection: investigating the nature of their interaction. Guild of Rocky Mountain Population Biologists. 1990.

Oliveras, DM. Natural and sexual selection: investigating the nature of their interaction. Fourth International Congress for Systematics and Evolutionary Biology. 1990.

Oliveras, DM. Sexual selection: using a *Drosophila melanogaster* model system to investigate its nature. Guild of Rocky Mountain Population Biologists. 1989.

Oliveras, DM and MA Novak. Paternal behavior as an indicator of social organization in *Microtus pennsylvanicus*, *M. pinetorum* and *M. ochrogaster*. Eighth Eastern Pine and Meadow Vole Symposium. 1984.

### **PEER REVIEW OF MANUSCRIPTS OR CREATIVE WORKS**

Manuscript APID-D-17-00069, "Body size and wing asymmetry along an urbanization gradient in bee". Apidologie. 2017.

Two chapters of an on-line biology textbook for science majors, Words and Number., 2012-2013.

Two chapters of an on-line biology textbook for non-science majors, Words and Numbers. 2012-2013.

Three chapters of an introductory biology text, Thomson Learning/Brooks/Cole. 2005.

Student manuscript for publication. 2005

Manuscript for Journal of Apiculture Research. 2004

### **INVITED SEMINARS/LECTURES/PAPERS**

Camp Science Counselor, Circle Program Camp. Plymouth, NH June-July 2019

Bumblebees of Boulder County. Presentation to PEO chapter. June 2019

Panelist, Earth Day Biodiversity Presentation. People and Pollinators Action Network/Sierra Club/Wild Foundation. Apr. 2019.

Response to First-Year Experience Transition Committee Draft Report. Invited response paper submitted Apr. 2019.

Response to Academic Futures Project 1: A common student-centered approach. Invited white paper submitted Sep. 2018

Addressing the growing needs of first-year students. Invited white paper submitted to Academic Futures. Dec.

2017 [https://www.colorado.edu/academicfutures/sites/default/files/attached-files/oliveras\\_et\\_al.\\_.pdf](https://www.colorado.edu/academicfutures/sites/default/files/attached-files/oliveras_et_al._.pdf)

Bumblebees of Boulder County. CU Museum of Natural History presentation. Sep. 2017

Residential Academic Programs at the University of Colorado. CU International English Center presentation. Mar. 2017, Apr. 2018, Oct. 2018, Feb. 2019, Nov. 2019

Polinizadores y Plantas. Presentation in Spanish and English to University Hill Elementary School second grade classes. (Sara Nelson, teacher coordinator). Dec. 2015, Feb. 2017, Feb. 2018.

Bee and Plant Field Course, Denver Botanic Gardens at Chatfield. Colorado Native Plant Society. Sep. 2015, Sep. 2016, June 2018.

Colorado Bumblebees Summer Field Seminar, Colorado Native Plant Society. July 13-14 2016 (canceled due to fire).

Bee pollinators in Boulder County. Pollinator Health in Colorado Information Exchange, Colorado Department of Agriculture. 2016.

Front Range bumblebees: Status and conservation. Colorado Native Plants Society. 2016.

Agricultural practices on Boulder County Open Space: Implications for pollinator conservation. Boulder County Parks and Open Space Advisory Committee meeting. 2015

Boulder bee diversity. Panelist and presenter at the Melody-Catalpa Neighborhood Bee Safe presentation. 2014.

Insect pollinators of Colorado. Gold Hill School. 2014

Bikes, bees, and butterflies Fair. Bear Creek Elementary School. 2014.

The bees of Boulder, Colorado. Panelist and presenter at the Sierra Club Protecting Your Backyard Bees Forum. Boulder, CO. 2014.

The birds and the bees and the flowers: A love story. School of Botanical Art and Illustration, Denver Botanic Gardens, Denver, CO. 2013.

Insect pollinators on the Front Range of Colorado. MESA program, Lyons Middle/High School, Lyons, CO 80540. 2013.

Insect pollinators along the Front Range. Sunrise at FlatIron, Sunrise Senior Living, Broomfield, CO. 2012.

Latin American/Puerto Rican music. World Music class (Daniel Jones, professor) 2011-2013.

Polinización. Talks given in Spanish to students of Casey Middle School (Boulder, CO), as part of March to College Day sponsored by the National Honor Society of Collegiate Scholars 2006, 2007.

The mysterious case of the disappearing honeybees. Café Botanique, Denver Botanic Gardens, 2007.

Non-random mate choice in wild radish, *Raphanus sativus*. University of Virginia. 1991.

Natural and sexual selection: Using a *Drosophila melanogaster* model system to investigate the nature of their interaction. Mountain Lake Biological Station. 1991.

Natural and sexual selection: Investigating the nature of their interaction. University of Arizona. 1990.

### **POPULAR NEWS ARTICLES**

Bee survey shows steady numbers. Daily Camera. 15 April 2017

Local efforts appear to be helping bumblebee populations. CU Boulder Today. 12 April 2017

University of Colorado researchers net rare Western bumblebee. CU News. 2013

Rare Western Bumblebee creates a buzz on the Front Range. CU News. 2013

More bumblebees spotted on Front Range. Aspen Public Radio. 2013

Western bumblebees may be poised for a Colorado comeback. KUNC. 2013

University of Colorado researchers net rare Western bumblebee. The Denver Post. 2013

Front Range bees cause buzz. NoBo Life. 2013

Research CU Boulder. Interview with Patrick Yoon and Andy Parker for PodCast. 2012

### **UNDERGRADUATE RESEARCH SUPERVISOR**

Rebecca Kazen 2015 (Baker RAP research fund, independent study)

James Grundy 2015 (UROP, independent study)

Jesi Jones 2015 (UROP, independent study)

Mackenzie Welch 2015 (UROP, independent study)

Andrew Lombardi 2014 (independent study)

Sydney Hawkins 2014 (independent study)

Reese Beeler 2014 (independent study)

Sarah Niemeyer 2013 (independent study)  
Zoe Praggastis 2013 (independent study)  
Cole Steinmetz, 2013 (independent study)  
Sam Canter 2013 (independent study)  
Benjamin Bruffey 2013 (BURST, independent study)  
Faculty sponsor, UROP team grant Engineers Without Borders 2013  
Arianna Efram 2012 (independent study)  
Brooke Goodspeed 2012 (volunteer)  
Erin Collier-Zans 2012 (UROP fund award)  
Noah Herreid 2012 (independent study)  
Summer Sugg 2011 (volunteer)  
Rita DiTommaso 2010 (volunteer)  
Jared Bandel 2010 (volunteer)  
Rebecca Stubbs 2010 (volunteer)  
Shannon Madore 2005 (UROP fund award)  
Lauren Mead 2005 (UROP fund award)  
Annie MacFadyen 2004 (UROP fund award)  
Daniel Veltri 2004 (UROP fund award)  
Brian Miller 2004 (UROP fund award)  
Matthew Talarico 2004 (UROP fund award)  
Taylor Whitten 2004 (UROP fund award)  
Trent Tennyson 2003 (volunteer)  
Thomas Binet 2003 (Biosciences Initiative funding)  
Laura Waterbury 2003 (Biosciences Initiative funding)  
Steve McAllister 2003 (UROP fund award)  
Keith Mitchell 2002 (UROP fund award)  
Chrissi Murphy 2002 (UROP fund award)  
Kira Krend 2002 (UROP fund award)

#### **UNDERGRADUATE HONORS COMMITTEES**

Emma Seidler 2021 Undergraduate honors thesis co-advisor  
Andrew Chiang 2017 Undergraduate honors thesis committee member  
Andrea Dumais 2016 Undergraduate honors thesis committee member  
Chelsea Gifford 2010-2011 Undergraduate honors thesis committee member  
Dara Perlow 2008 Undergraduate honors thesis committee member  
Julie Thomas 2000 Undergraduate honors thesis committee member

#### **DEPARTMENT, UNIVERSITY, AND COMMUNITY SERVICE**

Member, Teaching Quality Forum/Faculty Learning Community (TQF/FLC), 2020  
Research advice, Mirren Hendry, Sept. 2020  
Peer review of 10 Baker RAP faculty members, CU. Sept., Oct. 2019  
Organizer, Baker RAP Undergraduate Research Symposium, CU. 2003-present  
Organizer, fungi, plant, and animal feasts for EBIO 1220, CU. 2000-present  
One-Time Consultant on pollinator habitat, Namaste Solar (Aurora Sepp-Peterson, contact). July 2019  
Presenter, Talented Scholars Fair, CU. 2019  
Organizer, The Wild Animal Sanctuary volunteer work trip with Baker RAP students. 2015, April, Oct. 2016  
Organizer, Annual reception, Sigma Xi. 2008-2016  
Organizer, Café Scientifique, Sigma Xi. 2010-2016  
Organizer, Ebola movie event, Sewall RAP 2015  
Organizer, Ebola movie event, HP RAP 2014  
Organizer, Smallpox movie event, Sewall RAP 2014  
Organizer, Wilfred Arnold public talk on van Gogh's illness, Sigma Xi, 2013

Organizer, Speedtype establishment, Sigma Xi 2013  
Organizer, Baker RAP INVST/Study Abroad session 2013  
Organizer and host, Dr. Gary Miller, CU 2002  
Organizer and host, Dr. Lynn Margulis, CU 2000  
Group Leader, Denver Museum of Nature and Science trip with Baker RAP students 2016  
Group Leader, Rocky Mountain Arsenal volunteer with Baker RAP students Mar. 2017, Apr. 2016, Oct. 2016  
Group Leader, Indian Peaks Wilderness Area volunteer with Baker students 2015, 2016  
Group Leader, Aquarium trip with HP RAP students 2013  
Group Leader, Grasslands BioBlitz, June 2004  
Participant, Hall Director interview, Dec. 2019  
Participant, Accreditation Open Forum, CU, Dec. 2019  
Participant, Trauma Workshop with Jessica Ladd Webert, CU, Nov. 2019  
Participant, CAPS Wellness Seminar, CU, Oct. 2019  
Participant, EBIO General Biology course committee, 2010-present  
Participant, Baker graduation celebration, 2016-present  
Presenter, Sewall Success Celebration, 2017  
Participant, First-Year Experience, CU, 2017-present  
Participant, CAPS-RAPS meeting, CU 2017-present  
Participant, Academic Futures meetings, CU, 2017-present  
Participant, Family Weekend events, Baker RAP, CU 1995- present  
Participant, Family Weekend events, Sewall RAP, CU 2005-present  
Participant, Family Weekend events, Health Professions (HP) RAP, CU 2013-2018  
Participant, Welcome Students event, Baker RAP, CU 1995-present  
Participant, Welcome Students event, Sewall RAP, CU 2005-present  
Participant, Welcome Students event, Health Professions (HP) RAP, CU 2013-2017  
Participant, RAP Forum, CU, 2017-2018  
Participant, Inclusivity workshop, CU, 2017  
Participant, Provost Forum meetings, CU 2016-2017, Sept. 2019, March 2020  
Participant, Nature's Educators presentation, Baker RAP, 2017  
Participant, Town Hall for Core Curriculum Committee Revisions, 2016  
Participant, Diversity Sampler, CU 2004-2016, 2018  
Participant, CU Black and Gold reception for admitted underrepresented students 2015  
Participant, Admitted Students Day, Baker RAP 2015-2017, 2019-2020  
Participant, Admitted Students Day, HP RAP 2015  
Participant, Admitted Students Day, Sewall RAP 2015  
Participant, Talented Scholars Fair, CU 2008-2014  
Participant, teaching evaluations of Baker RAP faculty, CU, 2005-2015  
Member, Baker RAP Inclusive Excellence committee, 2016  
Member or chairperson of departmental committees including: welfare, grievance, external outreach, activities, publicity, orientation, recruitment 2010-2015  
AAU interview for EBIO Department development process 2015  
Baker RAP Program review 2014  
HP RAP Program review 2014  
Interview, McKenna Nolan FYXP Exploratory Studies Oct. 2019  
Interview on wild bees, Hannah Mauro 2015  
Interview, Amanda Andriese 2014  
Interview, MacKenzie King 2014  
Interview, World Music student Kyleigh Jo Holloway 2012  
Interview, Journalism student Lauren Pigott 2012  
Consult, Natalie Brim 2014  
Consult, MaryAnne Evans 2014  
Consultant, AeroGrow International, Inc. 2007-2008

Point Person, Tenure for Instructors, CU 2007

Biology presentation in Spanish, March to College Day sponsored by National Society of Collegiate Scholars  
April 2006, 2007

Interview committee for Spanish teacher for Nevin Platt Middle School, February 2006

Presenter, Biology presentations, Douglass Elementary School, Boulder, 2003

Science Fair Judge, Douglass Elementary School, Boulder, 2004-2010

Science Fair Judge, Central Elementary School, Longmont, 2003-04

Search Committee, Department Chairperson, UNM 1990-91

Biology Commencement Committee, UNM 1990

Science Fair Judge, Albuquerque 1988-91

Student Research Allocation Committee, UNM 1987-89

Graduate Research Allocation Committee, UNM 1987-1989

Organization Committee, American Society of Mammologists Meeting 1987

## REFERENCES

Dr. Carol A. Kearns

University of Colorado

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[Carol.A.Kearns@colorado.edu](mailto:Carol.A.Kearns@colorado.edu)

Dr. Michael Breed

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Dr. Randy DiDomenico

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