

STEPHEN PAUL ROBERTS

CURRICULUM VITAE

CONTACT INFORMATION:

Department of Biological Sciences
University of Nevada Las Vegas
4505 Maryland Parkway
Las Vegas, Nevada 89154-4004

Telephone: (702) 895-4471 (office)
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Email: sroberts@ccmail.nevada.edu

PERSONAL:

Date of Birth: 13 December 1967

Place of Birth: Ottawa, Illinois, USA

EDUCATION:

1993-98 Ph.D., Arizona State University, Tempe: Biology
1990-92 M.S., Illinois State University, Normal: Biological Sciences
1988-90 B.S., Illinois State University, Normal: Biological Sciences
1986-88 The University of Iowa, Iowa City: Medical Technology

PROFESSIONAL EXPERIENCE:

2005-present **Associate Professor**, Department of Biological Sciences, University of Nevada-Las Vegas (UNLV)
1999-2005 **Assistant Professor**, Department of Biological Sciences, UNLV
1998-99 **Postdoctoral Research Associate**, Department of Organismal Biology and Anatomy, The University of Chicago

RESEARCH INTERESTS:

Integrative and comparative physiology of insects: developmental and functional consequences of environmental stress; ecology and evolution of heat-shock proteins; thermoregulation and thermotolerance; flight energetics and biomechanics; limits and evolution of physiological and locomotor capacities

PROFESSIONAL SOCIETIES:

Entomological Society of America, Society for Integrative and Comparative Biology, The American Physiological Society

HONORS AND AWARDS:

- 2004 Professor of the Year, UNLV Association of Pre-Health Professionals (pre-med student organization)
- 2004 UNLV Merit Award, \$4,500
- 2002 UNLV Merit Award, \$3,000
- 2001 Nominated for the Bartholomew Award in Comparative Biochemistry and Physiology, Society for Integrative and Comparative Biology
- 2001 UNLV Merit Award, \$4,000
- 1999 Nominated by Arizona State University for the Council of Graduate Schools/University Microfilms International Distinguished Dissertation Award in Life Sciences
- 1998 Outstanding Graduate of the Graduate College, Arizona State University
- 1997 Procter and Gamble Professional Opportunity Award for Meritorious Research, The American Physiological Society, New Orleans, LA
- 1997 Scholander Award, Second place, The American Physiological Society, New Orleans, LA
- 1996 Scholander Award, First place, The American Physiological Society, Washington, DC
- 1996 Environmental and Exercise Physiology Young Investigator Award, The American Physiological Society, Washington, DC
- 1995 Best Student Paper Award, Division of Comparative Physiology and Biochemistry, American Society of Zoologists, St. Louis, MO
- 1990 Graduated *magna cum laude*: Illinois State University

FUNDING:

Funded Federal/Extramural Grants

- 2005 National Science Foundation IBN-0517635, “Ecology of heat-shock protein expression in honey bees: effects of age, behavior, and tissue heterothermia” (co-authors: S. P. Roberts and M. M. Elekonich), \$150,000
- 2002 National Science Foundation IBN-0213921, “Influence of Sensory Input and Environmental Stress on Brain Development, Behavior and Genomic Activity in *Drosophila*” (co-authors: S. P. Roberts and J. S. de Belle), \$300,000
- 2002 National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR) Infrastructure Grant EPS-0132556, “Integrative Approaches to Abiotic Stress” (co-authors: S. P. Roberts, C. Reiber and J. Cushman), \$3,318,000. Part of Nevada statewide proposal “Research for Nevada’s growth – targeting research with uniqueness and excellence II (RING-TRUE II).” \$15,000,000 (lead: J. Coleman)
- 2000 National Science Foundation IBN-9986163: “Collaborative Research: Ecological and Evolutionary Physiology of the Stress Response and Stress Proteins” \$81,500 (Collaborator: M. E. Feder, University of Chicago)
- 1995 National Science Foundation Doctoral Dissertation Improvement Grant IBN-9521543, “Thermoregulation during Flight and its Functional Consequences in the Honey Bee *Apis mellifera*” \$9,960

Funded State/Local/Intramural Grants

- 2004 UNLV Stimulation/Implementation/Transition/Enhancement (SITE) Award, “Genetic and Physiological Adaptation to High Altitude in Andean Bees” \$4,500
- 2004 UNLV Planning Initiative Award, “Scientific Instrumentation for a New Forensic Sciences Degree Concentration at UNLV” (Primary author: S. P. Roberts; Secondary authors: C. Reiber, J. Thompson, J. Ward) \$30,000
- 2004 National Institute of Health Nevada Biomedical Research Infrastructure Network (BRIN) Core Use Incentive Grant, “Effect of Environmental Stress and Heat-Shock Protein Expression on Brain Development, Function and Gene Expression in *Drosophila melanogaster*” (co-authors: S. P. Roberts and J. S. de Belle), \$6,300
- 2003 National Institute of Health Nevada Biomedical Research Infrastructure Network (BRIN) Core Use Incentive Grant, “Influence of Sensory Input and Environmental Stress on Brain Development, Behavior and Genomic Activity in *Drosophila*” (co-authors: S. P. Roberts and J. S. de Belle), \$6,300
- 2002 State of Nevada Applied Research Initiative Grant, “Africanized Honey Bee Abatement in Southern Nevada” \$20,000
- 2002 National Science Foundation Nevada EPSCoR Biotechnology Teaching Equipment Award, “Molecular Biology Training for UNLV Undergraduates” \$12,000
- 2001 National Science Foundation Nevada EPSCoR Seed Grant in Environmental Biology, “Genetic vs. Environmental Determinism: Influence of Sensory Input and Environmental

	Stress on Brain Development, Behavior and Genomic Activity in <i>Drosophila</i> ” (co-authors: J. S. de Belle and S. P. Roberts), \$20,000
2001	National Science Foundation Nevada EPSCoR Start-up Award, \$30,000
2001	UNLV SITE Award, “ <i>Drosophila</i> Medium Preparation Facility” \$2,500
2001	UNLV Planning Initiative Award, “Microscopes for Biology Education” (Primary author: S. P. Roberts; Secondary author: C. Reiber) \$30,000
2000	UNLV SITE Award, “Ecological and evolutionary physiology of the stress response and stress proteins” \$5,000
2000	UNLV New Investigator Award, “Ecological and Evolutionary Physiology of the Stress Response and Stress Proteins” \$5,000
2000	UNLV Department of Biological Sciences Aquatic Biology Research Grant, “Thermal Ecology and Developmental Sensitivity in Container-Breeding Mosquitoes” \$3,500
1999-01	UNLV Barrick Faculty Travel Awards (3), \$1,850
1993-98	Arizona State University Graduate Fellowships (1), Scholarships (2) and Travel Awards (2), \$23,965

REVIEWED PUBLICATIONS:

1. **Roberts, S. P.** and M. M. Elekonich. 2005. Behavioral development and the ontogeny of flight capacity in honey bees. *The Journal of Experimental Biology*. Accepted pending revisions.
2. Elekonich, M. M. and **S. P. Roberts**. 2005. Genetic and physiological underpinnings of age-related and environmentally-mediated phenotypic plasticity in honey bees. *Comparative Biochemistry and Physiology*. In press.
3. **Roberts, S. P.** 2005. Effects of flight behavior on body temperature and kinematics during inter-male mate competition in the solitary desert bee *Centris pallida*. *Physiological Entomology* 30:151-157.
4. **Roberts, S. P.**, J. F. Harrison and R. Dudley. 2004. Allometry of kinematics and energetics in carpenter bees (*Xylocopa varipuncta*) hovering in variable-density gases. *The Journal of Experimental Biology* 207:993-1004.
5. **Roberts, S. P.**, M. E. Feder and J. H. Marden. 2003. Dropping like flies: Environmentally-induced impairment and protection of locomotor performance in adult *Drosophila melanogaster*. *Physiological and Biochemical Zoology* 75:615-621.
6. Williams, K. D., A. B. Helin, J. Posluszny, **S. P. Roberts** and M. E. Feder. 2003. Effect of heat shock, pretreatment, and *hsp70* copy number on wing development in *Drosophila melanogaster*. *Molecular Ecology* 12:1165-1177.

7. Feuerbacher, E. N., J. F. Harrison, J. H. Fewell, **S. P. Roberts** and E. F. Smith. 2003. Loading effects on flight metabolic rate and mechanical power output in the honey bee, *Apis mellifera*. *The Journal of Experimental Biology* 206:1855-1865.
8. Krebs, R. A., **S. P. Roberts**, B. R. Bettencourt and M. E. Feder. 2001. Evolution of thermotolerance and Hsp70 expression in *Drosophila melanogaster* in the absence of stress. *Journal of Evolutionary Biology* 14:75-82.
9. **Roberts, S. P.**, and M. E. Feder. 2000. Changing fitness consequences of hsp70 copy number in transgenic *Drosophila* larvae undergoing natural thermal stress. *Functional Ecology* 14:353-357.
10. Feder, M. E., **S. P. Roberts**, and A. C. Bordelon. 2000. Molecular thermal telemetry of free-ranging adult *Drosophila melanogaster*. *Oecologia* 123:460-465.
11. Harrison, J. F., and **S. P. Roberts**. 2000. Flight respiration and energetics. *Annual Review of Physiology* 62:179-205.
12. **Roberts, S. P.**, and M. E. Feder. 1999. Natural hyperthermia and expression of the heat-shock protein Hsp70 affect developmental abnormalities in *Drosophila melanogaster*. *Oecologia* 121:323-329.
13. **Roberts, S. P.**, and J. F. Harrison. 1999. Mechanisms of thermal stability during flight in the honey bee *Apis mellifera*. *The Journal of Experimental Biology* 202:1523-1533.
14. **Roberts, S. P.**, J. F. Harrison and N. F. Hadley. 1998. Mechanisms of thermal balance in flying *Centris pallida* (Hymenoptera: Anthophoridae). *The Journal of Experimental Biology* 201:2321-2331.
15. **Roberts, S. P.**, and J. F. Harrison. 1998. Mechanisms of thermoregulation in flying bees. *American Zoologist* 38:492-502.
16. Harrison, J. F., J. H. Fewell, **S. P. Roberts** and H. G. Hall. 1997. Reply to Heinrich, Esch, Stevenson and Woods. *Science* 276:1016-1017.
17. Joos, B., J. R. B. Lighton, J. F. Harrison, R. K. Suarez and **S. P. Roberts**. 1997. Effects of ambient oxygen tension on flight performance, metabolism, and water loss of the honey bee. *Physiological Zoology* 70:167-174.
18. Suarez, R. K., J. R. B. Lighton, B. Joos, **S. P. Roberts** and J. F. Harrison. 1996. Energy metabolism, enzymatic flux capacities and metabolic flux rates in flying honey bees. *Proceedings of the National Academy of Science* 93:12616-12620.
19. Harrison, J. F., J. H. Fewell, **S. P. Roberts** and H. G. Hall. 1996. Achievement of thermal stability by varying metabolic heat production in flying honey bees. *Science* 274:88-90.
20. **Roberts, S. P.**, M. C. Quinlan and N. F. Hadley. 1994. Interactive effects of humidity and temperature on water loss in the lubber grasshopper *Romalea guttata*. *Comparative Biochemistry and Physiology* A109:627-631.

MANUSCRIPTS:

1. Sinclair, B. J. and **S. P. Roberts**. Acclimation, shock and hardening in the cold. Submitted to *The Journal of Thermal Biology*.
2. Reiber, C. L. and **S. P. Roberts**. Ontogeny of physiological regulatory mechanisms: fitting into the environment. Submitted to *Comparative Biochemistry and Physiology*.
3. Guadagnoli, J. A., A. M. Braun, **S. P. Roberts** and C. L. Reiber. Environment influences hemoglobin subunit structure in the branchiopod crustacean *Triops longicaudatus*. Submitted to *The Journal of Experimental Biology*.
4. **Roberts, S. P.**, H. S. Crudgington and R. R. Snook. Evolution of locomotor capacity in *Drosophila pseudoobscura* lines selected for monogamy and enhanced promiscuity. In preparation.
5. Wang, X., J. S. deBelle and **S. P. Roberts**. Effects of heat-shock on mushroom body development and learning in *Drosophila melanogaster*. In preparation.
6. Vance, J., D.L. Altshuler, M. H. Dickinson and **S. P. Roberts**. Mechanisms of force production in honey bees hovering in variable-density atmospheres. In preparation.
7. Frazier, M. R., S. D. Kirkton, J. F. Harrison and **S. P. Roberts**. Temperature-dependent plasticity of aerodynamic design and flight performance in *Drosophila melanogaster*. In preparation.

INVITED LECTURES AND INTERNATIONAL/NATIONAL SYMPOSIA PRESENTATIONS:

- 2004 Department of Biological Sciences, University of North Carolina-Wilmington
 Department of Biological Sciences, UNLV (2)
 Society for Integrative and Comparative Biology Symposium, "Ontogeny of physiological regulatory mechanisms: Fitting into the environment" New Orleans, LA
- 2003 Department of Animal and Plant Sciences, University of Sheffield, UK
 Division of Biology, Kansas State University (2)
- 2002 Department of Entomology, University of Illinois
 Department of Entomology, University of Arizona
 Department of Kinesiology, UNLV
 Nevada NSF EPSCoR Symposium on Genomic Study of Abiotic Stress Adaptation, Lake Tahoe, NV
- 1998 Department of Biological Sciences, UNLV
 Natural History Seminar Series, Department of Ecology and Evolution, The University of Chicago
 Engineering Foundation Conference, "Mechanics of plants, animals and their environments: Integrative perspectives." Santa Barbara, CA
- 1996 Society for Integrative and Comparative Biology Symposium, "Responses of terrestrial invertebrates to variation in temperature and water availability: Molecular, organismal and evolutionary approaches." Albuquerque, NM
 Center for Insect Science HexaPodium, Tucson, AZ
- 1993 Department of Biology, Millikin University, Decatur, IL

CONTRIBUTED PAPERS AT NATIONAL/INTERNATIONAL SCIENTIFIC MEETINGS:

- 2005 Society for Integrative and Comparative Biology, San Diego, CA “Stress-induced disruption of brain development, learning and memory in *Drosophila*”
Society for Integrative and Comparative Biology, San Diego, CA “Biomechanics and energetics of honey bees (*Apis mellifera*) hovering in variable-density gases”
- 2004 Annual meeting of the North American Section of the International Union for the Study of Social Insects, Camp Tontozona, AZ “Limits to maximal flight performance in *Apis mellifera*”
Annual meeting of the North American Section of the International Union for the Study of Social Insects, Camp Tontozona, AZ “Hsp70 expression and induction varies with behavior and tissue type in the honey bee”
International Behavioral Neuroscience Society, Key West, FL “Stress-induced disruption of brain development and behavior in *Drosophila melanogaster*”
- 2003 Gordon Research Conference: Ecological and Evolutionary Functional Genomics, New London, NH. “Growing up on the wrong side of the tree: Developmental and functional consequences of thermal stress and Hsp70 expression in *Drosophila*”
American Physiological Society, Experimental Biology 2003, San Diego, CA. “Stress-induced disruption of brain development in *Drosophila melanogaster*”
- 2002 Entomological Society of America, Ft. Lauderdale, FL “When bad things happen to good flies: Environmentally-induced impairment and protection of locomotor performance in adult *Drosophila melanogaster*”
American Physiological Society, The Power of Comparative Physiology: Evolution, Integration and Application, San Diego, CA “Temperature-dependent plasticity of aerodynamic design in *Drosophila*: Implications for kinematics and free-flight ability”
Annual *Drosophila* Research Conference of The Genetics Society of America, San Diego, CA “Anatomical and behavioral consequences of stress-induced disruption of *Drosophila* mushroom body development”
Society for Integrative and Comparative Biology, Anaheim, CA “Temperature sensitivity of aerodynamic design and flight performance in *Drosophila melanogaster*.”
- 2001 Society for Comparative and Integrative Biology, Chicago, IL. “Developmental and fitness consequences of natural thermal stress and *hsp70* copy number in *Drosophila melanogaster*.”
- 2000 Physiological Ecology Conclave, Bishop, CA. “Natural heat stress and the heat-shock protein Hsp70 affect developmental stability and survivorship in *Drosophila melanogaster*.”
American Physiological Society, Experimental Biology 2000, San Diego, CA. “Natural hyperthermia and expression of Hsp70 affect larval survivorship and the incidence of developmental abnormalities in *Drosophila melanogaster*.”
- 1999 Society for the Study of Evolution, Madison, WI. “Natural hyperthermia and expression of the heat-shock protein Hsp70 affect development in *Drosophila melanogaster*.”
Society for Comparative and Integrative Biology, Denver, CO. “Heat budget analysis of thermoregulation in flying honey bees.”

SERVICE:

Profession:

- 2005 **Chair**, Behavioral Mechanisms Session, Society for Integrative and Comparative Biology, San Diego, CA
- 2004 **Co-organizer**, Society for Integrative and Comparative Biology Symposium, "Ontogeny of physiological regulatory mechanisms: Fitting into the environment" New Orleans, LA
- 2003 **Co-organizer**, National Science Foundation Nevada EPSCoR Symposium "Integrative Approaches to Abiotic Stress" Las Vegas, NV
- 2002 **Judge**, Best Student Talk Competition, Society for Integrative and Comparative Biology Annual Meeting, Anaheim, CA

System:

- 2004 **Member**, NSF Nevada EPSCoR Summer Fellowship Review Committee
- 2002-present **Member**, Nevada NSF EPSCoR Integrative Biology Steering Committee
- 2002-04 **Member**, NIH Nevada BRIN Summer Fellowship Review Committee
- 2002 **Member**, NIH Nevada BRIN Core Use Grant Review Committee
- 2002 **Representative** of UCCSN, QUE (Quality in Undergraduate Education) National Meeting, Baltimore, MD
- 2000 **Representative** of UCCSN, QUE National Meeting, Atlanta, GA

University:

- 2004 **Representative** of UNLV, National Science Foundation IGERT Workshop, Alexandria, VA
- 2003-04 **Member**, Forensic Science Degree Program Organizing Committee
- 2003 **Member**, UNLV New Investigator Award Review Committee
- 2000-02 **Member**, UNLV Admissions Committee

College:

- 2004 **Member**, Undergraduate Services Director Search Committee
- 2003-04 **Member**, Pre-professional Advisory Council to the Dean
- 2000-03 **Chair**, Pre-professional Advisory Committee, UNLV College of Sciences
- 2002 **Interviewer**, UNLV Dental School Admissions
- 2001 **Member**, UNLV College of Sciences Undergraduate Advising Director Search Committee
- 2000-01 **Representative** of College of Sciences, UNLV Recruitment Forums at various Las Vegas high schools
- 1999-2000 **Member**, Pre-professional Advisory Committee, UNLV College of Sciences

Department:

- 2004 **Member**, School of Life Sciences Organization Committee
- 2004 **Member**, Laboratory Coordinator Search Committee
- 2004 **Chair**, Biology Education Specialist Search Committee
- 2003-present **Co-director**, UNLV Center for Stress Genomics
- 2003-04 **Chair**, Integrative Physiologist Search Committee
- 2002-03 **Member**, Curriculum Committee, UNLV Department of Biological Sciences
- 2002-present **Director**, DBS Fly Kitchen
- 2002 **Organizer**, UNLV Juanita Greer White Distinguished Lecture
- 2001-present **Member**, Personnel Committee, UNLV Department of Biological Sciences
- 2002-03 **Member**, Integrative Physiologist Search Committee
- 2001-02 **Member**, Cell Physiologist Search Committee
- 2001 **Co-organizer**, UNLV Juanita Greer White Distinguished Lecture

2000-01 **Member**, Cell Biologist Search Committee
2000-01 **Member**, Graduate Student Diagnostic Examination Committee

Public:

2004 **Presenter**, “Those Amazing Flying Animals!” Neil C. Twitchell Elementary School, Henderson, NV
2003 **Arbitrator**, UNLV Science Bowl
2003 **Judge**, Southern Nevada Regional Science and Engineering Fair
2003 **Presenter**, “Science as a Process and Profession” Career Day, Foothills High School, Henderson, NV
2003 **Presenter**, UNLV Preschool
2002-present **Member**, Advisory Committee, Las Vegas Springs Preserve, Las Vegas, NV
2002 **Presenter**, Smithsonian Institute O. Orkin Traveling Insect Safari, Las Vegas, NV
2001 **Presenter**, “Science as a Process and Profession” Ottawa High School, Ottawa, IL
2000 **Presenter**, UNLV Science Bowl
2000 **Presenter**, UNLV Science and Technology Day
1996-97 **Consultant**, Desert Botanical Garden, Phoenix, AZ
1996-97 **Advisor** for Science Literacy, Illinois Elementary School District #141, Ottawa, IL
1995-98 **Judge**, Broadmor Elementary School Science Fair, Tempe, AZ
1988-89 **Consultant**, Miller Zoological Park, Bloomington, IL

Reviewer:

Federal Granting Agencies and Private Foundations:

National Science Foundation (Ecological and Evolutionary Physiology *ad hoc*, Doctoral Dissertation Improvement Grant panel)

Earthwatch Institute (*ad hoc*)

Journals:

<i>Journal of Experimental Biology</i>	<i>Entomologia Experimentalis et Applicata</i>
<i>Physiological and Biochemical Zoology</i>	<i>Naturwissenschaften</i>
<i>Functional Ecology</i>	<i>Annals of the Entomological Society of America</i>
<i>Journal of Insect Behavior</i>	<i>Zoology-Analysis of Complex Systems</i>
<i>Physiological Entomology</i>	<i>Environmental Entomology</i>
<i>Comparative Biochemistry and Physiology</i>	<i>Journal of Insect Physiology</i>
<i>Genetica</i>	

TEACHING (status, enrollment, average student evaluative GPA from 0 to 4):

Department of Biological Sciences, UNLV

2005, Fall BIO 189, Foundations in Biology (lecture, 220, N/A)
2005, Spring BIO 440, Mammalian Physiology (lecture, 85, 3.0)
BIO 496/796, Physiology of Starvation (seminar, 10, 3.8)
2004, Fall BIO 447, Comparative Animal Physiology (lecture and lab, 15, 3.7)
2004, Summer BIO 189, Foundations in Biology (lecture, 150, 3.4)
2004, Spring BIO 748, Environmental Physiology (lecture [co-taught with 5 other instructors], 9, 3.5)

	BIO 496, Undergraduate Seminar, “Forensic Entomology” (seminar, 17, 3.8)
2003, Fall	BIO 189, Foundations in Biology (lecture, 310, 3.3) BIO 492, Independent Undergraduate Research
2003, Summer	BIO 209, Introduction to Cell Biology (lecture, 100, 3.8)
2003, Spring	BIO 437, Entomology (lecture and lab, 29, 3.7) BIO 492, Independent Undergraduate Research
2002, Fall	BIO 190, Principles of Modern Biology I (lecture, 36, 3.8) BIO 492, Independent Undergraduate Research
2002, Spring	BIO 492, Independent Undergraduate Research BIO 796, Graduate Seminar, “Comparative Biomechanics and Energetics of Animal Locomotion” (seminar, 5, 4.0)
2001, Fall	BIO 492, Independent Undergraduate Research
2001, Spring	BIO 190, Principles of Modern Biology I (lecture, 212, 3.7) BIO 492, Independent Undergraduate Research BIO 796, Graduate Seminar “Inducible Responses” (seminar, 7, 3.3)
2000, Fall	BIO 190, Principles of Modern Biology I (lecture, 424, 3.3) BIO 310, Evolution (Guest Lecturer) BIO 492, Independent Undergraduate Research
2000, Spring	BIO 492, Independent Undergraduate Research BIO 748, Environmental Physiology (lecture and lab, 4, 4.0)
1999, Fall	BIO 190, Principles of Modern Biology I (lecture, 212, 3.2)

TRAINEES:

Postdoctoral Researchers:

Dr. Brent Sinclair (Biological Sciences, UNLV, 2004-present)

Dr. Jake Williams (Biological Sciences, UNLV, 2005-present; co-mentored with M. Elekonich)

Dr. Cheryl Vanier* (Stress Genomics Center, Biological Sciences, UNLV, 2004-2005; co-mentored with C. Reiber)

Dr. Alyssa Braun* (Stress Genomics Center, Biological Sciences, UNLV, 2002-2004; co-mentored with C. Reiber; now Assistant Professor of Biology at Dominican University, River Forest, IL)

Graduate Students Directed:

Jason Vance¹ (Ph.D., Biological Sciences, UNLV, in progress)

Xia Wang* (Ph.D., Biological Sciences, UNLV, in progress; co-mentored with S. de Belle)

Michael Brewer² (Ph.D., Biological Sciences, in progress)

Other Graduate Student Committee Memberships:

Brian Dunkelberger (Ph.D., Biological Sciences, UNLV, in progress)
Christine Serway* (Ph.D., Biological Sciences, UNLV, in progress)
Jutta Guadagnoli* (Ph.D., Biological Sciences, UNLV, in progress)
Carren Knehr* (M.S., Biological Sciences, UNLV, in progress)
David Grade (M.S., Biological Sciences, UNLV, in progress)
Michelle Bleuze* (M.S., Anthropology, UNLV, 2005)
Jason Vance (M.S., Kinesiology, UNLV, 2003)
Rebekah Bogard* (M.F.A., Department of Art, UNLV, 2003)
Aaron Payette (M.S., Biological Sciences, UNLV, 2003)
Stacey Harper* (Ph.D., Biological Sciences, UNLV, 2003)
Jennell Miller* (Ph.D., Biological Sciences, UNLV, 2002)
Chad Newell (M.S., Biological Sciences, UNLV, 2001)

Undergraduate Students:

Melissa Moynihan*	Doug Chenin	Rose Trinh*
Lorenzo Nichols‡	Abdul (Wally) Nuristani	Myra Thompson*‡
Shannon Bean*	Elisa Hotz*	Christian Davis
Georgina Callaway*	Terri Nilson* ³	Brian Beard

*Female ‡Under-represented minority

1. 2004/2005 Recipient of Nevada NSF EPSCoR Graduate Fellowship (2 semesters, \$15,000);
2005/2006 Recipient of Nevada NASA EPSCoR Graduate Fellowship (2 semesters, \$22,500)
2. 2005 Recipient of Nevada NSF EPSCoR Graduate Fellowship (1 semester, \$7,500)
3. 2005 Recipient of National Institute of Health Undergraduate Fellowship (summer, \$5,500)