

JORGE E. MENDOZA

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EDUCATION

Bachelor of Science, Biology, *Kansas State University*, Manhattan KS, May 2010.

Associate in Science, Biology, *Garden City Community College*, Garden City KS, May 2007.

High School Diploma, *Garden City High School*, Garden City KS, May 2005.

RESEARCH EXPERIENCE:

KANSAS STATE UNIVERSITY - Manhattan, KS

*Independent Undergraduate Research, Developing Scholars
Program, McNair Scholars Program*

Fall 2009-Spring 2010

- Experience included conducting a quantitative analysis of the admissions requirements of doctoral programs at different universities in the United States. My analysis attempts to help students (I) become knowledgeable about different aspects of graduate school, from planning admission since college freshman to the application process; (II) become familiar with GRE; and (III) provide recommendations to prepare outstanding application materials (Mentor: Dr. Samantha Wisely).

UNIVERSITY OF CALIFORNIA BERKELEY - Berkeley, CA

UC Berkeley Edge Conference Participant

Fall 2009

- Experience included attending a workshop on preparing a competitive application for Berkeley graduate school admission and fellowships. Other activities included tours of Berkeley and national laboratory facilities, one-on-one consultations with UC Berkeley faculty and researchers from Lawrence Berkeley National Laboratory (LBNL), Lawrence Livermore National Laboratory (LLNL), and Sandia National Laboratories (Sandia).

MOUNTAIN LAKE BIOLOGICAL STATION - Pembroke, VA

*SEEDS Student, Strategies for Ecology Education Diversity and Sustainability,
Ecological Society of America*

Fall 2009

- Experience included being selected as a SEEDS student in the Fall 2009 competition touring Mountain Lake Biological Station and the surrounding Appalachian Mountains, meeting with faculty from the University of Virginia, MLBS staff, research ecologists, learned about the research being conducted at MLBS and attending a career panel. The skills learned were extraction of tree cores and analyzing them in order to study the environment surrounding over

the span of several decades in the forests of the Appalachian Mountains. Additional field activities included collecting of earthworms and forked fungus beetles from three habitats around the station (Mentor: Dr. Henry Wilbur).

HARVARD UNIVERSITY - Cambridge, MA

Research Intern, Research Experience for Undergraduates (REU)

Summer 2009

Supplemental Program

- The research focused in evolutionary ecology of birds by constructing phylogeographic trees from bluebird species in the woodlands across North America. Skills learned in the ten-week program included extracting DNA from tissues, hydrosheared DNA, sequencing DNA, and designing and testing primers (Mentor: Dr. Scott V. Edwards).

KANSAS STATE UNIVERSITY - Manhattan, KS

Directed Study, Problems in Biology and Developing Scholars Program

Fall 2008-Spring 2009

- Experience included analyzing demographic data of the migratory Upland Sandpiper (*Bartramia longicauda*) at Konza Prairie to determine its parental care (Mentor: Dr. Brett K. Sandercock).

KANSAS STATE UNIVERSITY - Manhattan, KS

Research Intern, Research Experience for Undergraduates (REU) Site Program

Summer 2008

- Fieldwork at Konza Prairie involved using radio telemetry to study habitat requirements and behavioral ecology of Upland Sandpipers and Common Nighthawks, collecting blood samples and taking measurements of the birds (Mentors: Dr. Brett K. Sandercock and Rebecca Lohnes).

KANSAS STATE UNIVERSITY - Manhattan, KS

Independent Undergraduate Research

Summer 2008-Fall 2008

- Experience included studies on the novel role of *eIF5* and its human mimic protein in Gcn2-dependent signaling pathway. The skills learned included the usage of ImageJ to compare measurement ratios in different types of microscope images of yeast cells, bacteria cells, and human cells (Mentor: Dr. Katsura Asano).

KANSAS STATE UNIVERSITY - Manhattan, KS

Research Intern, Developing Scholars Program and Bridges to the Future

Summer 2007-Spring 2008

- Studying initiation factors in yeast cells. Skills learned included: preparing gels, handling pipettes, chromatography columns, growing cell cultures, and using recombinant DNA technology (Mentor: Dr. Katsura Asano).

TEACHING EXPERIENCE

KANSAS STATE UNIVERSITY - Manhattan, KS

Practicum for Ornithology Laboratory

Spring 2010

- Ornithology lab helps students become familiar with identifying different families and orders of birds, their habitat, evolution and avian anatomy and physiology. My responsibilities include, helping students to identify birds of Kansas, leading lectures, and setting up the laboratory materials and bird skins for each lab (Instructors: Dr. Jack Cully & Dr. Page Klug).

GARDEN CITY COMMUNITY COLLEGE - Garden City, KS

Practicum for Human Anatomy & Physiology

Spring 2007

- Human Anatomy & Physiology is a rigorous class that teaches students about the anatomy and physiology of the body and diseases. In addition, students learn throughout the semester how to dissect a cat. My duties included helping students with dissections, showing them the proper way to handle and store human cadavers and teach them the body muscles with cadavers in the lab (Instructor: Mr. Robert Wilson).

PRESENTATIONS

- Admission Requirements for Integrated Science Doctoral Programs, *10th Annual Developing Scholars Program Research Symposium*, Kansas State University. 2010
- Evolution & Implementation of Mitochondria, *Cell Biology Class*, Kansas State University. 2010
- Konza Prairie: Breeding Place for Upland Sandpipers & Common Nighthawks, *First Annual Developing Scholars Program Lectures*, Kansas State University. 2009
- Konza Prairie: Breeding Place for Upland Sandpipers & Common Nighthawks, *Northern Flint Hills Audubon Society*, Manhattan, Kansas. 2009
- Anonymous Loci in Blue Jays, *Department of Organismic and Evolutionary Biology Symposium*, Harvard University. 2009
- Parental Care of the Migratory Upland Sandpiper at Konza Prairie, "Evolution 2009," *Society for the Study of Evolution (SSE)*, *the Society of Systematic Biologists (SSB)*, and *the American Society of Naturalists (ASN)*, University of Idaho. 2009
- Investigating the Home Ranges of Common Nighthawks and Parental Care of the Migratory Upland Sandpiper at Konza Prairie, *Alianza's Recognition Reception Celebrating Latino Student Achievement*, Kansas State University. 2009
- Dreams, Goals, and Mentors, *Fifth Annual Target on Excellence Colloquium*, Kansas State University. 2009
- Parental Care of the Migratory Upland Sandpiper at Konza Prairie, *9th Annual Developing Scholars Program Research Symposium*, Kansas State University. 2009
- Investigating the Home Ranges of Common Nighthawks, *REU Research Symposium*, Kansas State University. 2008
- Purification of Recombinant Yeast EIF1 Protein by Column Chromatography Express Bacteria, *8th Annual Developing Scholars Program Research Symposium*, Kansas State University. 2008

GRANTS & SCHOLARSHIPS:

- Bridges Grant, \$2000, *National Institute of Health (NIH)*, Kansas State 2006-2010

University.

- National Federal Science and Mathematics Access to Retain Talent (SMART) Grant, \$4000, *Federal Fund*, Kansas State University. 2007-2009
- Cancer Research Award, \$1000, *Terry C. Johnson Center for Basic Cancer* 2007-2009
- Hispanic Scholarship Fund Award, \$2000, *Hispanic Scholarship Fund (HSF)*. 2007-2008
- League of United Latin American Citizens National Scholarship, \$200, *League of United Latin American Citizens (LULAC)*. 2007
- League of United Latin American Citizens National Scholarship, \$500, *League of United Latin American Citizens (LULAC)*. 2005

HONORS & AWARDS

- Rita G. Perez Exemplary Developing Scholar Award, *Kansas State University & the Developing Scholars Program*, Kansas State University. 2010
- University Award for Distinguished Undergraduate Student in Research, *Office of the Provost & Senior Vice President*, Kansas State University. 2010
- Biology H.H. Haymaker Award Nominee, *Division of Biology*, Kansas State University. 2010
- K-State Hero Award, *Kansas State University Student Foundation*, Kansas State University. 2009
- James R. Coffman Award of Excellence, *Developing Scholars Program*, Kansas State University. 2009
- Commencement Speaker, *Garden City Community College*, Garden City, KS. 2007
- Outstanding Student Award, *Garden City Community College*, Garden City, KS. 2007
- Student Support Services Outstanding Academic Achievement Award, *Student Support Service*, Garden City Community College. 2007
- Academic Excellence Award, *Student Support Service*, Garden City Community College. 2006-2007
- Milken Youth Award, *Garden City High School*, Garden City, KS. 2005
- Outstanding Hispanic Male Nominee, *League of United Latin American Citizens (LULAC)*, Garden City, KS. 2005

REFERENCES:

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