

thesis review 2013

As a culminating experience for the master's degree program, the thesis attests to the highest level of the student's academic, scholarly, and creative abilities. Each student works under the guidance of a faculty thesis chair and committee. The resulting thesis is viewed with pride as a reflection of the scholarly promise of the student and a commitment to excellence for the university. These summer and fall 2013 semesters, 56 students completed theses in areas as varied and original as the students themselves. What follows is a complete list of summer/fall 2013 thesis publications by college/school and some research highlights.

JORDAN COLLEGE OF AGRICULTURAL SCIENCES AND TECHNOLOGY

Animal Science

Michael Brady

A Survey of Calcium Status of Dairy Cattle Residing in California's Central Valley

(Chair: Jon Robison)

Chris Dent

Using Core Body Temperature to Determine Response to Timed Insemination in Lactating Dairy Cows

(Chair: Jon Robison)



Amy Housman

Correlation of Physical Characteristics with Insulin Resistance in Horses

(Chair: John Henson)

Melanie Guadalupe Jaime

The Effect of Supplementing Direct-Fed Microbials on Lactational Performance of Lactating Dairy Cows

(Chair: Jon Robison)

Jordan Van Grouw

Survey of Starch Digestibility of California Corn Silages

(Chair: Jon Robison)

~Jordan analyzed corn silages grown in the Central Valley to better understand changes in starch digestibility over time of fermentation.~



Plant Science

Bardia Dehghanmanshadi

Growth, Yield, and Water Use Efficiency of Tomato Subjected to Elevated Carbon Dioxide Under Two Different Irrigation Regimes

(Chair: Florence Cassel Sharma)

David Scheidt

Growth and Yield Response of Bell Pepper CV. Pismo to Slow Release Nitrogen Fertilizer and Irrigation Regimes

(Chair: Dave Goorahoo)



Inderjot Chahal

Comparison of Salt Tolerant Alfalfa (*Medicago Sativa*) Genotypes: Seed Germination, Emergence, Dry Matter Yield and Mineral Composition of Mature Plants

(Chair: Sharon Benes)

Viticulture and Enology



Sean Pinnell

Influence of Mechanical Canopy Management and Differential RDI Stress on the Phenolic and Volatile Aroma Composition of Syrah Wines

(Chair: Kaan Kurtural)

Sijie Zhu

The Influence of Post-Veraison Foliar Potassium Applications on Table Grape Berry Quality

(Chair: Sonet Van Zyl)

COLLEGE OF ARTS AND HUMANITIES

Creative Writing—Master of Fine Arts

Russell Birdwell

Cancer Camp

(Chair: Steven Church)

Mary Locke

Adam's Transgression

(Chair: Alex Espinoza)



Jennifer Matteson

Search and Rescue

(Chair: Corrinne Hales)

English

Meredith Bulinski

Developing Reflection: From Thinking to Writing to Learning
(Chair: Asao Inoue)

John Fitzer

Meeting the Needs of Generation 1.5 Students in the Composition Classroom
(Chair: Virginia Crisco)

~John's thesis examines the Generation 1.5 experience in composition courses designed to prepare them for college-level English and offers a viable alternative to the existing paradigm.~



Daniel Frank

Digital Writing: Refiguring Pedagogy with Online Passionate Affinity Spaces
(Chair: Kathleen Godfrey)

Rupinder Heer-Gill

The Caged Bird Sings: Love as a Liberating Force in Maya Angelou's Poetry
(Chair: Corrinne Hales)

Lisa McHarry

Reclaiming the Raped Body: The Power of Marking and Feminine Writing in *The Heptaméron*, *Dracula*, and *the Girl With the Dragon Tattoo*
(Chair: Toni Wein)

Brice Daniel Nakamura

Pausing to Think: Video Games in the First-Year Writing Classroom
(Chair: Asao Inoue)



~Brice's work combined labor and leisure by analyzing the effectiveness of using video games in a college composition classroom for learning purposes.~



Tyler Richmond

A Critical Assessment Practice for the Writing Classroom
(Chair: Asao Inoue)

Linguistics

Ruth Camburn

The Syntax of Discourse Particles in Chukchansi Yokuts
(Chair: Brain Agbayani)



Modern and Classical Languages and Literatures

Azalia Santos Girón

Expresión Subversiva al Discurso Patriarcal en la Voz Artística de Sor Juana Inés de la Cruz, Delmira Agustini y María Luisa Bombal

(Chair: *Debbie Ávila*)

Sara Rios

Ruptura del Estereotipo Femenino en Protagonistas de Valle-Inclán

(Chair: *Debbie Avila*)

CRAIG SCHOOL OF BUSINESS



Business Administration

Jeanna Furst

The Concept of Flow in Consumer Behavior Related to Social Media: An Empirical Study

(Chair: *Susan Geringer*)

LYLES COLLEGE OF ENGINEERING

Civil Engineering

Ahmad Niaz

Evaluation & Optimization of In-Situ Chemical Oxidation (Ozone) in Remediating Petroleum-Impacted Groundwater

(Chair: *Lubo Liu*)

Mechanical Engineering

Baltazar Gomez

Conceptual Design of a Manual Stair-Climbing Wheelchair

(Chair: *The M. Nguyen*)



DIVISION OF GRADUATE STUDIES



Interdisciplinary Studies

Robert Koons

Assessing the Long-Term Impact of Early 20th Century Railroad Logging on Forest Soils: Case Study on the Stanislaus National Forest, California

(Chair: *Robert Dundas*)

COLLEGE OF HEALTH AND HUMAN SERVICES

Communicative Disorders and Deaf Studies

Tricia Minty

The Efficacy of Musical Stimuli in Teaching Morphologic Structures in Children With Expressive Language Disorders
(Chair: Christine Maul)



Public Health



Chathurika Goonawardena

The Effect of Anxiety or Depression on Academic Performance Among College Students Attending California State University, Fresno
(Chair: Vickie Krenz)

Raquel Mirelez Hagopian

Factors Associated with Contraceptive Use Among Female Students at a Public California State University Campus
(Chair: Helda Pinzon-Perez)

Jin Zeng

The Mental Health Status of Asian American Students at Fresno State
(Chair: Vickie Krenz)

~Jin's piece focuses on the mental health of Asian American college students as compared to White, African American, and Hispanic students.~

COLLEGE OF SCIENCE AND MATHEMATICS

Biology

Elizabeth Braschayko

The Effects of Chronic Cortisol on Growth, Appetite, and Metabolism in Tilapia (*Oreochromis Mossambicus*)
(Chair: Larry Riley)

Sanjiva Gunasekara

Transcriptome Analysis of CRP* Toxicity
(Chair: Hwan Youn)



Harinder Singh

Organic Chalcones and a Minimal Domain of CED-4 as Effective Nematicides
(Chair: Alejandro Calerón-Urrea)



Andrew Strankman

Low Molecular Weight Thiols Protect Cyanobacteria from Environmental Stresses
(Chair: Mamta Rawat)

Jessica Tyson

Molecular Evidence of Heartworm Larvae in Field Collected *Aedes Sierrensis* in Eastern Madera County, California
(Chair: Paul Crosbie)

~Jessica's thesis relates the presence of heartworm larvae in the mosquitos of Madera County.~

Chemistry

Lucas Algrim

Temperature-Dependent Kinetic and Mechanistic Study of the Gas-Phase Oxidation of Select Carbonyls
(Chair: Alam Hasson)

Akiteru Ikeda

Electrochemical and Optical Spectroscopic Studies on C60 and C70 Fullerenes in Various Electrolyte Systems
(Chair: Jai-Pil Choi)



Kennedy- Kiet Tuan Vu

Measurements of Redox-Active Organics in Fine Particulate Matter
(Chair: Alam Hasson)



Martin Leon

Development of Chalcone-Based Small Organic Molecules for Apolipoprotein E (APOE) Modulation
(Chair: Santanu Maitra)

Kang Xiong-Hang

Induced Oxidative Stress in *Drosophila Melanogaster* Exposed to an Environmental Neurotoxin
(Chair: Joy Goto)

David Zimmerman

The Key to the Neurotoxicity of B-Methylamino Alanine Lies Within the Nuclear Magnetic Resonance Spectrum
(Chair: Krish Krishnan)

Geology

Juanita Florence Muniz

Magnetostratigraphy and Paleomagnetic Analysis of the Tulare and Turlock Lake Formations, San Joaquin Valley, California
(Chair: Christopher Pluhar)



Physics

Arya Afshari

Optimizing the Search for Excited Bosons W^* in Dijet Angular Distributions for the Atlas Experiment
(Chair: Ray Hall)



Joseph DiPirro

Analytical Solutions for Sensitivity Contribution in Nuclear Imaging
(Chair: Douglas Singleton)

Psychology

Ashley Dunbar

The Treatment of Intra-Species Dog Aggression: An Examination of Negative Reinforcement in Shaping Alternative Behaviors
(Chair: Amanda Adams)



Nicole Jones

The Effect of Mexican Orientation and Anglo Orientation on Perception of Stressors
(Chair: Amanda Mortimer)



Charles Kralowec

An Empirical Investigation of the Factor Structure of the Davis Interpersonal Reactivity Index Among School-Age Children
(Chair: Paul Price)

Jovonnie Esquierdo Leal

An Examination of the Effects of Verbal Stimuli, as Identified by the IRAP, on the Rate of Revolutions Pedaled on a Stationary Bicycle
(Chair: Marianne Jackson)

Jordan Prendez

Neural Correlates of Confidence and Error Detection: An Investigation of Error-Related Negativity in a Short-Term Memory Task
(Chair: Martin Shapiro)

~Jordan's thesis studies the physiological and behavioral responses of participants completing a short-term memory task.~



Iris Price

Neural Correlates of a Novel Loss-Framed Gambling Task:
Investigation of the Feedback-Related Negativity (FRN) and Positive
300 (P300)

(Chair: Martin Shapiro)

Marisol Reynoso

Using Task Analyses with Patients with Acquired Brain Injuries: A
Study on Accident Prevention Skills Training

(Chair: Amanda Adams)

Sara Stein-Torres

Quantitative Differences in Religious Conversion by Age and
Level of Personal Change

(Chair: Michael Botwin)



COLLEGE OF SOCIAL SCIENCES

Criminology

Yongseol Jang

Causes and Effects of Victim Participation in the Community Justice Conferencing
Program in Fresno County, California

(Chair: Yoshiko Takahashi)

History

Whitney Thompson-Tozier

“Armed With Badges of Red, White, & Blue”: The 1921
California Oil Strike and the End of Union Bargaining in
“The Lean Years”

(Chair: Daniel Cady)



Gee Xiong

Ntxhais Nkauj Ntsuab: A Study on the Miss Hmong Pageants in America

(Chair: Jill Fields)

