

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)

