

Taylor Herren
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EDUCATION

California State University, Chico
Masters of Science, Biology

Presently Enrolled

California State University, Chico
Bachelors of Science, Animal Science

Graduated 2014

RESEARCH

“Amaranth: a potentially invasive weed in Northern California Rice Fields” (2014-present)

As a graduate student at California State University, Chico my research is intended to align with the university mission and serve the Northern region of California. I am going to be studying the potential invasiveness of seven species of *Amaranth* in rice farms. The University of California has published comprehensive data that is focused on six species of that have been identified in California. These species include *dcalandrella@csuchico.edu* *spa.* (pigweed), *Amaranthus palmeri* S. (carelessweed), *Amaranthus hybrids* L (slender pigweed), *Amaranthus deflexus* (low amaranth), *Amaranthus retroflexus* (Redroot pigweed), *Amaranthus albus* (Tumble pigweed). Because *Amaranth* has invaded and threatened natural and agronomic ecosystems in many other parts of the United States it is worthwhile to study the potential establishment and invasion of selected species of Amaranth in California Rice fields. (Advisor Dr. Chris Ivey)

“Hazard Analysis Critical Control Point Plan (HACCP) for CSU Chico Organic Dairy” (May 2014)

The purpose of this project was to create a food safety plan for the CSU Chico Organic Dairy. The plan lays out every protocol that needs to be followed at each stage of the dairy production process. This plan aims to increase safety for consumers and the integrity of CSU Chico's dairy products. (Advisor Dr. Stephen Doyle)

“Effect of yeast meal on growth and carcass characteristics in growing lambs” (2014)

The objective of this study was to test the effect that varying feed rations have on livestock growth. In this specific study we randomly split a homogenous herd of sheep into two groups. The control group was fed a diet of strictly grain and the treatment group was fed a diet with grain yeast. The weights were taken throughout the study and average daily and overall gain were calculated for each group. Post-harvest, the carcass characteristics were measured and averaged as well. The data was all analyzed using an ANOVA. The results supported the hypothesis that grain diets that included yeast increased the average daily gain, total gain and carcass quality in growing lambs. (Advisor Dr. Celina Phillips)

“Effect of soybean meal on growth and carcass characteristics in growing swine” (2013)

The objective of this study was to test the effect that varying feed rations have on livestock growth. In this specific study we randomly split a homogenous herd of juvenile swine were split into two groups. The control group was fed a diet of strictly grain and the treatment group was fed a diet with grain and

soybean. The weights were taken throughout the study and average daily and overall gain were calculated for each group. Post-harvest, the carcass characteristics were measured and averaged as well. The data was all analyzed using an ANOVA. The results supported the hypothesis that grain diets that included soybean increased the average daily gain, total gain and carcass quality in growing lambs. (Advisor Dr. Stephen Doyle)

“Effect of almond hull diet on growth and carcass characteristics in growing lambs” (2013)

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RELEVANT COURSEWORK

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|------------------------------|--------------------------------|
| Genetics | Agroecology |
| Evolution | Global Food Policy |
| Agriculture Issues | Experimental Techniques |
| Statistical Analysis | Organic Pasture Management |
| Organic Dairy Production | Soil Health |
| Food Quality and Safety | Organic Chemistry |
| Livestock Feed and Nutrition | Animal Health and Disease |
| Animal Physiology | Animal Reproductive Physiology |

LABORATORY AND FIELD TECHNIQUES

- | | |
|--|------------------------------|
| Polymerase Chain Reaction (PCR) | Survey and Analysis |
| NMR Spectrometer | Laboratory Cultures |
| Soil Sampling | Almond and Walnut Harvesting |
| Field Surveying | Composting |
| Dairy Parlor Technician | Carcass Quality Testing |
| Ultrasound Imaging | Necropsy |
| Livestock Handling, Vaccination and Breeding | Milk Pasteurization |
| Livestock Nutrition and Feed Rations | Livestock Harvesting |

INTERNSHIPS AND WORK EXPERIENCE

Bakersfield Veterinary Hospital

Intern

- Supervisor: Mylon Filkins, DVM and John Tulley, DVM
Large Animal Veterinarian Clinic
Laboratory technician, animal handler, field assistant

CSU Chico Organic Farm

Intern, University 110 Class

Supervisor: Dr. Cindy Daley, Unit Director and Darby Holmes, Herd Manager
Hands-on experience with daily management of pasture-based organic dairy herd
Required to understand and abide by the standards organic operations are held to.
Learned how to work in the milking parlor and how to care for organic pastures through
and soil health and herd management

Community Action Volunteers and Education (CSU, Chico Associated Students)

Program Director

Supervisor: Ann Schwab, Career Staff and Chico City Council Member
Creator and Grant Recipient for Chico Homeless Ambassadors Program
Supervise approximately 100 staff and oversee 1,000 student volunteers for five
community volunteer program

Associated Students Inc., CSU, Chico

President and Chief Executive Officer (CEO)

Supervisor: David Buckley, Executive Director
Chair of the Board of Directors for the \$20 million corporation
External representative for the CSU Chico student body

California Department of Food and Agriculture

Executive Policy Intern

Supervisor: Taylor Roschen, Executive Fellow and Jim Houston, Deputy Secretary
Legislative policy analysis
Web design, public outreach

California State Student Association (CSSA)

Board of Directors, Sustainability Officer

Supervisor: Miles Nevin, Executive Director
Representative for the 460,000 California State University (CSU) students
Lobby on issues that affect CSU students at the system wide or state level

ADVOCACY AND POLICY WORK

Panetta Institute for Public Policy

Lecture Attendee

CSU, Chico Representative
Networked with policymakers, military officials and educators

Campus Sexual Assault Audit

CSU Chico Student Representative

Testified as the CSU representative at the state audit hearing
Student representative on CSU Chico Title 9 Committee

Chair Peer-led Training Ad Hoc Committee

\$95 Million Ask: CSU Funding Campaign

Campaign Organizer

Met with dozens of legislators to ask for \$95 million increase to the CSU in the state budget

Testified at budget and education committee hearings

Organized system-wide letter writing, calling and social media campaigns

Voter Registration Drive

Campaign Organizer

Tabled on CSU, Chico campus to educate students about the voting process and registration deadlines

Hosted a "Rock the Vote" event on campus the week prior to Election Day

Organized campus outreach campaign with voting reminders and booth locations

Chico Mayor's Homeless Task Force

CSU Chico Representative

City of Chico Town and Gown Committee

Committee Chair

Work with city officials and community stakeholders on community issues

Report and speak at Chico City Council Meetings

Regularly attend City Planning Commission and Internal Affairs Committee

UNIVERSITY INVOLVEMENT

This Way to Sustainability Conference (TWTS)

Planning Committee Member, College of Agriculture Student, Student Representative

TWTS is the largest student-run sustainability conference in the nation. The theme in 2014 was *Sustainable Food and Agriculture*. Along with pre-conference planning responsibilities I had the opportunity to present the main Keynote Speaker, California Secretary of Agriculture Karen Ross

Academic Affairs Strategic Plan Re-design

Committee Member, Student Representative

The Academic Plan is the guiding document for the division of Academic Affairs with a specific focus on instruction, research and public service. The plan outlines the educational goals and strategies for instruction, student success, public service and research which are expected to be realized over the next five years. When CSU Chico Provost Belle Wei (2012-2014) initiated this process she nominated me to represent the students and serve for the duration of this two-year committee.

Student Academic Senate

Creator, Founding President

The purpose of the Student Academic Senate is to advocate for the student learning experience and extend the representation of the Associated Students to include Academic Affairs. I presented the changes to the corporate code along with the senator position descriptions and the committee bylaws to the Board of Directors in January 2014. The Student Academic Senate is the first student-led committee that is academically focused and recognized as a standing committee by the University's Academic Senate.

Interdisciplinary Experiential Education in Nature

Committee Member

Sustainability Curriculum Development

Outdoor Education Curriculum Development

University Academic Senator

CSU Ethnic Studies Task Force

University Budget Committee

Instructionally Related Activity Fee Committee

Civic Engagement Strategic Plan Committee

Educational Policies and Procedures

Wildcat Leadership Institute

Campus Fee Advisory Committee

Campus Planning Committee

Excellence in Learning and Teaching

AWARDS AND HONORS

Alpha Zeta Honor Fraternity (2012-2014)

CSU Chico Most Outstanding Student Leader (2014)

College of Agriculture Outstanding Student Leader (2014)

Mac Martin Excellence in Leadership Award (2014)

Jackie Farris-Reese Leadership Award (2013)

Theresa Corti Agriculture Scholarship (2009-2013)

President's University Advisory Board Outstanding Leadership in Service Award (2012 & 2014)

Ron Rhode Leadership Scholarship (2012)

Community Affairs Outstanding CAVE Staff Award (2012)

Future Farmers of America (FFA) Rising Leader Scholarship (2009)

REFERENCES

Academic References - California State University, Chico

Chris Ivey, PhD. Ecology: ctivey@csuchico.edu

Graduate Advisor and Tenured Faculty in the College of Natural Sciences

Jim Pushnik, PhD. Genetics: jpushnik@csuchico.edu

Director Institute for Sustainable Development and Graduate Committee Member

Paule Sylvester, PhD. Education: psylvester@csuchico.edu
Academic Senate Chair and Tenured Faculty in the College of Agriculture

Betsy Boyd, PhD. Entomology: eboyd@csuchico.edu
Educational Policies and Procedures Committee Chair, Tenured Faculty

Don Miller, PhD. Entomology: dmiller@csuchico.edu
Tenured Faculty in the College of Natural Sciences

Celina Philips, PhD. Animal Nutrition: crphillips@csuchico.edu
Undergraduate Advisor and Tenured Faculty in the College of Agriculture

Cindy Daley, PhD. Genetics: cdaley@csuchico.edu
Undergraduate Advisor and Tenured Faculty in the College of Agriculture

Dave Daley, PhD. Animal Science: ddaley@csuchico.edu
Interim Dean and Tenured Faculty in the College of Agriculture

Professional References

David Buckley: dbuckley@csuchico.edu
Associated Students Inc. Executive Director

Paul Zingg, PhD. History: pzingg@csuchico.edu
University President

Drew Calandrella: dcalandrella@csuchico.edu
Vice President for Student Affairs

Ann Schwab: aschwab@csuchico.edu
Chico City Council Member, Associated Students Career Staff

Miles Nevin, M.A. Public Policy: mnevin@csustudents.org
Executive Director for the California State Student Association (CSSA)

Jim Houston: jim.houston@cdfa.ca.gov
Deputy Secretary for the California Department of Food and Agriculture (CDFA)

Taylor Röschen: taylor.roschen@cdfa.ca.gov
Executive Fellow for the California Department of Food and Agriculture (CDFA)

Mark Orme: mark.orme@cityofchico.edu
Chico City Manager

Lori MacPhail: lori.macphail@cityofchico.edu
Chico Police Department Captain

Jon Slaughter: jslaughter@csuchico.edu

Associated Students Inc. Government Affairs and Programs Director

CC Carter: cecarter@csuchico.edu

Director Student Life and Leadership

Lori Hoffman: lbhoffman@csuchico.edu

Vice President for Business and Finance