

CORIDON LAWS

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El Centro College

801 Main St. | Dallas, TX 75202

EDUCATION

UT – Arlington, Arlington TX

In Progress

Doctor of Philosophy in Quantitative Biology

Graduate study with an emphasis population dynamics.

Adviser: Dr. James P. Grover.

Research interests: marine microbiology, microbial ecology, limnology

Texas Wesleyan University (TWU), Fort Worth TX

Dec 2009

Bachelor of Science in Biology

Cumulative GPA: 3.9 on a 4.0 scale

Summa cum laude

TEACHING EXPERIENCE

Instructor

Aug 2015 – Present

El Centro Community College, Dallas TX 75202

Teaching introductory biology courses

Adjunct Instructor

Jan 2015 – May 2015

Texas Wesleyan University, Fort Worth TX 76105

Taught introductory lecture and lab course – Introduction to Cell Biology

Graduate Teaching Assistant

Jan 2011 - Present

UT Arlington, Arlington TX 76019

Taught introductory lab course regarding structure and function of organisms (1442)

Lead Graduate Teaching Assistant

Jan 2014 – May 2014

UT Arlington, Arlington TX 76019

Lab Course: Structures and Functions of Organisms (1442)

Working closely with biology coordinator in developing introductory biology curriculum

Assisting in writing revisions in laboratory manual

Leading weekly lab meetings with GTAs

Graduate Teaching Assistant

Jun 2013 - Jul 2013

UT Arlington, Arlington TX 76019

Taught sophomore level lab course regarding anatomy and physiology.

MENTORING

I-Engage Mentor

May 2014 - Aug 2014

UT Arlington, Arlington TX 76019

Worked with undergraduate Jessica Stevens on her summer research involving algal population dynamics under different dilution conditions

Research Mentor for Undergraduate Research

Aug 2012 - May 2013

UT Arlington, Arlington TX 76019

Worked with undergraduate Rouba Shishakly on her undergraduate honors thesis: Autotrophy versus heterotrophy in *Prymnesium parvum* with glucose nutritional supplement

PROFESSIONAL EXPERIENCE

Pharmacopeia Technician/Microbiology Analyst

Sept 2010 - Apr 2011

Analytical Food Laboratories, Grand Prairie TX 75050

Tested pharmaceutical products for total microbial counts
Tested food products for microbial and fungal pathogens
Generated microbial data reports for clientele

Wet Chemical Analyst

Nov 2009 - Sept 2010

Texas Analytical Laboratories for Environmental Management, Fort Worth TX 76104

Tested influent and effluent waters for, total solids, volatile solids, total suspended solids, dissolved solids
Edited and revised standard operating procedures for solids analysis
Performed miscellaneous analysis of influent and effluent samples including biological oxygen demand and specific conductance

Biology and Chemistry Lab Coordinator Assistant

Sept 2007 - May 2009

TWU, Biology and Chemistry Department Fort Worth TX 76105

Kept records of chemical solutions made
Maintained chemical stock inventory
Assisted coordinator with prep work for laboratory courses

RESEARCH EXPERIENCE & TRAINING

PhD Laboratory Research

Jan 2011 - Present

UT Arlington, Arlington TX 76019

Collecting population and time series data on toxic algal cultures
Analyzing the interactions between different algal classes
Creating mathematical relevant equations to model ecological patterns in harmful algal populations

SWCA Intern

Sept 2012- Present

SWCA Environmental Consulting, Arlington TX 76006

Maintained datasets with concerning wetland plant species
Developed review paper concerning invasive wetland species

EPA Inspector Trainee

Aug 2013

EPA Region 6, Dallas TX 75202

Reviewed basic procedures for handling samples

Attended seminars concerning issues about how to handle clientele

US Army Corp of Engineers

Jan 2012- Jun 2012

Lake Granbury, Granbury TX 76048

Distributed rhodamine for water tracer studies

Collected water samples for algal determination and identification

Undergraduate Research Assistant

May 2009 - Jul 2009

University of North Texas Health Science Center, Fort Worth TX 76107

Maintained attenuated and wild-type strains of *Listeria monocytogenes*

Designed experiments to determine what type of immunological response each strain elicited.

Co-advisers: Dr. Rance Berg and Dr. Angela Roberts.

Undergraduate Research Student

Jun 2008 - Aug 2008

University of Texas – Southwestern Dallas, TX 75235

Identified if BOSS mutant *Drosophila melanogaster* display differential patterns of endocytosis.

Maintained *Drosophila melanogaster* stock by sorting males from females

Used Qiagen® kits to purify DNA extracted from *Drosophila*

Utilized microscopy to dissect *Drosophila* larva

Co-advisers: Dr. Helmut Kramer and Dr. Ali Akbar

Undergraduate Research Assistant

May 2007 - Jul 2007

University of North Texas Health Science Center, Fort Worth TX 76107

Identified if *Saccharomyces cerevisiae* mutants missing RAD30 exhibit slower growth rates after exposure to different levels of radiation.

Maintained *Saccharomyces cerevisiae* stock cultures

Analyzed time series data to determine how radiation affected growth rates

Adviser: Dr. Wolfram Siede

PRESENTATIONS & POSTERS

Laws CA, Grover JP. 2015 Understanding the role of direct cell-to-cell interaction and mixotrophy in the harmful alga *Prymnesium parvum*. Royal Society, Buckinghamshire, UK: June 2015

Laws CA, Grover JP. 2015 Understanding the role of direct cell-to-cell interaction and mixotrophy in the harmful alga *Prymnesium parvum*. Society of Freshwater Science, Milwaukee, WI: May 2015.

Laws CA, Grover JP. 2014. Direct cell-to-cell contact is an important mechanism in the impact of the toxic alga *Prymnesium parvum* on other algal species. Gordon Research Conference/Seminar- Marine Microbes (GRC/GRS), Waltham MA: June 2014

Laws CA, Grover JP. 2014. Direct cell-to-cell contact is an important mechanism in the impact of the toxic alga *Prymnesium parvum* on other algal species. Annual Celebration of Excellence by Students (ACES), Arlington TX: April 2014.

Lundgren VM, Roelke DL, Grover JP, Brooks BW, Prosser KN, Scott WC, **Laws CA**, Umphres GD. 2013. Interplay between ambient surface water mixing and manipulated hydraulic

flushing: Implications for harmful algal bloom mitigation. Aquatic Plants Management Society Annual Conference, San Antonio TX: July 2013

Roelke DL, Lundgren VM, Brooks BW, Prosser KN, Scott WC, Grover JP, **Laws CA**. 2012. Assessing hydraulic flushing as a counter measure to golden algae blooms in coves of Lake Granbury, TX. Granbury Town Hall Meeting, Granbury TX. June 2012.

Laws C, Roberts A, Berg R. 2009. The effects of different strains of *Listeria monocytogenes* on cytokine production Annual Biomedical Research Conference for Minority Students, Phoenix, Arizona: October 2009.

PUBLICATION

Lundgren V, Roelke D, Grover J, Brooks B, Prosser K, Scott WC, **Laws C**, Umphres G. 2013. Interplay between ambient surface water mixing and hydraulic flushing: implications for harmful algal bloom mitigation. *Ecological Engineering* 60: 289-298.

AWARDS & FELLOWSHIPS

T.E. Kennerly Teaching Award

May 2014

UT Arlington, Dept. of Biology, Arlington TX 76019
Awarded for demonstrating excellence in teaching
\$500 - Award

Carl Storm Underrepresented Minority Fellowship

Jun 2014

Gordon Research Conference West Kingston, RI 02892
Awarded for acceptance to GRC/GRS (Travel Grant)
\$600 - Award

Microbiology Undergraduate Research Fellowship

May 2009

UNT Health Science Center, Fort Worth, TX 76107
Awarded on condition of performing microbiological research at host institution
\$ 2500 - Award

Summer Undergraduate Research Fellowship

Jun 2008

UT Southwestern Medical Center, Dallas TX 75235
Awarded on condition of performing biological research at host institution
\$ 4000 - Award

Summer Multicultural Advanced Research Training

May 2007

UNT Health Science Center, Fort Worth, TX 76107
Awarded on condition of performing biological research at host institution
\$ 4200 - Award

ORGANIZATIONS

International Society of Environmental Economics
Phi Sigma Graduate Biology Society (UT Arlington)
Society of Wetland Scientists
Tri-Beta (TWU chapter)

Mar 2014 - Present
Jan 2014 - Present
Sept 2012 - Present
Jan 2008 - Present