



**SMU**

Interdisciplinary Institute  
DEDMAN COLLEGE OF HUMANITIES & SCIENCES

# Hamilton Undergraduate Research Scholars for the 2015-2016

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## **SUMMER 2015**

### **Veronica Flores**

*Villages of the Saints: A Social Analysis of Spanish American Acculturation in New Mexico. Mentor: Sunday Eiselt*

### **River Ribas**

*"Pathways through Care: Treatment Decision-Making and Drop-out for Youth with Early Psychosis" Mentor: Neely Myers*

### **Raymond Cline**

*"CARE Project" Mentor: Chrystyna Kouros*

### **Madeleine Boudreaux**

*"Observing Mindfulness" Mentor: Lorelei Simpson*

### **Wilson Gomez**

*"Three Projects in Psychology" Mentor: Alan Brown*

### **Anika Reza**

*"Non-Governmental Organization Decision-Making in Kenya" Mentor: Karisa Cloward*

### **Keon Ebrahimi**

*"Mechanisms for Higher-order correlations in retinal ganglion cells" Mentor: Andrea Barreiro*

### **Joseph DiPane**

*"The Role of FoxP1=Regulated Genes in Cell Culture Models of Huntington Disease" Mentor: Santos D'Mello*

## Division Two

### Anthropology

#### Gillian Wright

*"Pathways through Care: Decision-Making and Treatment Drop-Out in Early Psychosis" Mentor: Neely Myers*

#### Miguel Gutierrez

*"Interventions for Latino/a Individuals with Psychosis". Mentor: Nia Parson*

#### Bethany Hicks

*"Comparing Indigenous and Modern Fire Management in Southwestern US Forests" Mentor: Christopher Roos*

### Economics

#### Tracy Nelson

*"Women and Economics; Information, Aspirations and the Dismantlement of Stereotypes". Mentor: Danila Serra*

#### Emily Towler

*"Women and Economics; Information, Aspirations and the Dismantlement of Stereotypes". Mentor: Danila Serra*

### Psychology

#### Raymond Cline

*"CARE Project" Mentor: Chrystyna Kouros*

#### Wilson Gomez

*"Glimpsing how the brain searches itself: Semantic versus phonemic patterns in word generation" Mentor: Alan Brown*

#### Lauren Pinzas

*"The burden of knowing too many words: High versus low vocabulary students' success in continuous word retrieval" Mentor: Alan Brown*

#### Rosa Castillo

*"Childhood Victimization and Late Adolescent Sexual Assertiveness" Mentor: Lorelei Rowe*

*"Developing and Validating an Observational Coding system for Mindful Interaction between Partners in a Couple" Mentor: Lorelei Rowe*

## Political Science

### Matthew Reitz

*"Is Japan Militarized? Whither Japan's Security Policy?" Mentor: Hiroki Takeuchi*

## Sociology

### Paul Armstrong

*"Gender at the Box Office" Mentor: Ann Licoln*

*Fall 2015 Semester Only*

## Division Three

## Biology

### Yogi Elphick

*"The Influence of Pheromones on the Longevity of the Fruit Fly d. Melanogaster" Mentor: Johannes Bauer*

### Elise Mittag

*"The Influence of Tissue-Specific Juvenile Hormone Signaling on the Longevity of the Fruit Fly Dr. Melanogaster" Mentor: Johannes Bauer*

### Alexis Sunshine

*"Expression of Multidrug Transporters in Human and Yeast Cells" Mentor: Pia Vogel*

### Averi White

*"Developing Lentiviral Inhibitors of Cancer-Survival pathways to Prevent Tumorigenesis" Mentor: Robert Harrod*

### Rachel Gardner

*"Molecular Mechanisms of Carcinogenesis by HTLV-1 Regulatory Proteins" Mentor: Rober Harrod*

### Kate Maddra

*"Histone Deacetylases in the Developing Mouse Brain" Mentor: Santosh D'Mello*

### Joseph DiPane

*"The Role of BMP and Activin Membrane Bound Inhibitor (BAMBI) and GTP Binding Protein Overexpressed in Skeletal Muscle (GEM) in Neuronal Apoptosis" Mentor: Santosh D'Mello*

### Vicki Wong

*"The Activities of PREs with the Regulatory Region of a Drosophila PcG Target Gene" Mentor: Rick Jones*

## Collette Marchesseault

*"Heterologous Expression of Multidrug Resistance Proteins" Mentor: Rick Jones*

## Chemistry

### Miguel Quimbar

*"Chemiluminescent Platform for Smartphone Monitoring of Respiratory Disease". Mentor: Alexander Lippert*

### Alex Dunaway

*"Determination of Halidophilicity of Copper Complexes in Protic and Acidic Media" Mentor: Nicolay Tsarevsky*

### Patricia Nance

*"New Phosphazene Materials for Biomedical Applications" Mentor: Patty Wisian-Neilson*

## Mathematics

### Daniel Peck

*"Studies of Stability of Thin films of Aqueous Solutions" Mentor: Vladimir Ajaev*

### Micah Thornton

*"Quantum Algorithms for Numerical Methods" Mentor: Daniel Reynolds*

## Physics

### Andrew Posada

*"Increasing the Sensitivity of the XIA Alpha Particle Counter" Mentor: Jodi Cooley*

### Moez Janmohammad

*"Continued Studies of Environmental Factors Affecting Material Storage for Next Generation Dark Matter Experiments". Mentor: Jodi Cooley*

### Nicole Hartman

*"The Development of New Methods to Identify Higgs Bosons Dacaying to Bottom Quarks" Mentor: Stephen Sekula*