



## 2019 Undergraduate Research Symposium

Presenters from the Department of Chemistry

All presentations will take place on May 16 in the EMU.  
See forthcoming program for time/location at  
[undergradsymposium.uoregon.edu](http://undergradsymposium.uoregon.edu)

### POSTER PRESENTATIONS

#### **Paula Berry**

"Using the Auxin-Inducible Degron System to Reversibly Switch *Caenorhabditis elegans* Populations Between Outcrossing and Exclusively Self-fertilizing Reproduction"

#### **Casey Bisted**

"The Development of a System to Determine the Size Dependence of In<sub>2</sub>O<sub>3</sub> Nanocatalysts on CO<sub>2</sub> Reduction"

#### **Anson Dang**

"Investigating Gp32 Binding Behavior on Single-Stranded DNA With Different Polarity And Length Using Microsecond Resolution smFRET Measurements"

#### **Patrick Fajardo**

"A Novel Application of Carbon Nanohoops in Ion-Sensitive Devices: A Potential Story"

#### **Adrian Gordon**

"Semiconductor-Electrocatalyst Interfaces on Photoanodes Designed for Photoelectrochemical Cells"

#### **Jack Lien**

*Multicultural Scholars Academic Residential Community*

#### **Joshua Mostales**

"The Effects of RNA Polymerase II "Backtrack Site" Mutations on Transcription Speed and Fidelity in *Saccharomyces cerevisiae*"

#### **Makenna Pennel**

"A Flux Story: Harnessing the Power of a Slow-Injection Synthesis to Analyze Nanocrystal Growth"

#### **Michael Veirs**

"Investigation of Riboswitch Structure and Dynamics Using Fluorescent Spectroscopy"

## **ORAL PRESENTATIONS**

**Madelyn Scott**

"Correction of evolving background in single-shot transient absorption measurements"