

Sophomore Research Program Showcase

Thursday, April 18, 1pm-3pm, Skeen Library

We gratefully acknowledge the support of the Sophomore Research Program by its sponsors: the Air Force Research Laboratory, Sandia National Laboratories, Alumni Donors, and the Offices of Financial Aid and Academic Affairs of New Mexico Tech.

| Registration Number | Presenter: | Project Title: | Time slot |
|----------------------------|---------------------|--|------------------|
| SRS2024-009 | Charlee Blackwell | The Past and Present Impacts of the Brayton Point Power Station in Somerset, Massachusetts | 2-3pm |
| SRS2024-011 | Benjamin Harrington | Alternate Designs for a Robotic Combat Kit | 2-3pm |
| SRS2024-013 | Thomas Pierson | Validation of FBG Strain Sensors and Their Use for Pipe Monitoring | 1-2pm |
| SRS2024-019 | Atticus Stewart | Identifying Spots on Jupiter using a Neural Network | 1-3pm |
| SRS2024-023 | Nancy Avila Do | Improving Python's Error Messages | 1-2pm |
| SRS2024-025 | Jaxen Bujold | Frequency of Cyber Attacks throughout the Year | 2-3pm |
| SRS2024-026 | Gavin Fillip | Non-Classical Nucleation of Magnesium-Neodymium Alloys: An Atomistic Study | 2-3pm |
| SRS2024-027 | Alexander Williamn | Radio Backscatter in Mine Rescue Mission | 1-2pm |
| SRS2024-030 | Susanna Lanucara | Correlations Between the Occurrence of Compact Intracloud Discharges and Severe Weather | 1-3pm |

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|-----------------------------------|--------------------------|---|-------------------------|
| SRS2024-042 | Riley Oesch | Isolating and Characterizing Bacteriophages for Use in Phage Therapy | 1-2pm |
| SRS2024-052 | Austin McDonald | A Comparison of Corrosion Levels on NMDOT Culverts to Local SSURGO Steel Corrosion Potentials | 2-3pm |
| SRS2024-053 | Logan Bujewski | Tensile Failure Testing of a Scandium Aluminum Alloy | 1-3pm |
| SRS2024-054 | Jeremy Barber | Synthesis and Separation of Camptothecin-Lipid Prodrugs for Targeted Drug Delivery for Improved Neuroblastoma Treatment | 1-3pm |
| SRS2024-068 | Andrew Loera | A Systematic Mapping Study on Drive-By Downloads | 1-2pm |
| SRS2024-124 | Kateri Zamora | Creosote Control on Soil Greenhouse Gas Flux in Response to Atypically Late Monsoon | 2-3pm |
| SRS2024-132 | Marcus Sternhagen | Hybrid Computation for Real-Time Robotic Learning | 2-3pm |
| SRS2024-140 | Tyler Smith | Environmental Monitoring of Air Quality and Combustion Sources in Socorro, New Mexico, NMT | 2-3pm |
| SRS2024-142 | Christopher Workman | Ploidy Analysis of Triploids Generated by Crossing of Diploid and Tetraploid Arabidopsis thaliana | 1-2pm |