

**30th Annual Undergraduate
Research and Creative Arts
Symposium
Friday, April 25, 2025
Corbett Student Union
New Mexico State University**

Presenters:

Cristian Acosta, Animal Science
Patricia Adu-Mensah, Nursing
Gabriel Agnew, Mathematics
Mohammad Al Aqtash, Chemical and Materials Engineering
Marwa Al Aqtash, Chemical and Materials Engineering
Jared Alderman, Biochemistry
Mayte Alonso Carillo, Psychology
Anthony Alvarez, Civil Engineering
Gage Anderson, Anthropology, History, and Biology
Makani Araujo, Environmental Science
Gabrielle Baca, Microbiology
Samantha Baez, Animal Science
Jessica Barrio, English
Ellary Battle, Fisheries and Wildlife Conservation
Timothy Bautista, Mechanical and Aerospace Engineering
Kyle Begay, Aerospace Engineering
Jordan Bell, Geology
Demetrius Billey, Computer Science
Alvin Birmingham-Monroe, Civil Engineering
Kayla Blundell, Studio Art
Luis Borja, Aerospace and Mechanical Engineering
Cade Borner, Sociology
Pacha Botero, Chemistry and Biochemistry
Jacarthie Kim Brazil, Chemistry
Samantha Brazil, Microbiology and Biology
Blakely Kade Briscoe, Biology
Alexa Brito, Biochemistry and Biology
Maxine Burford, Horticulture
Katherine Bursum, Computer Science
Paulina Campos, Nursing
Damian Cano, Kinesiology
Zachary Carmichael, Computer Science
Bethany Chacon, Mechanical Engineering
Stanley Cheng, Chemistry and Biochemistry
Jason Christopherson, English
Esai Cisneros, Genetics and Biotechnology
Elliot Cisneros, Electrical Engineering
Maya Clausen, Biology
Jayce Collins, Biochemistry
Jade Collins, Biochemistry
Itzel Cordova, Elementary Education
Laisha Corona, Biology
Melissa Coronado Arrieta, Engineering Physics
Aileen Cortez, Communication Disorders
Zachary Cruz, Chemical and Mechanical Engineering
Andrea Cruz, Psychology
Emerald Davis, Aerospace Engineering
Jonathan Davis, Undeclared Arts and Sciences
Maria Del Sol Nunez Pena, Mechanical Engineering
Esha Desai, Kinesiology- Exercise Science
Summer Divine-Ramos, Pre-Dental
Kayda Donohue, Psychology
Rachel Doyle, Animal Science
Vance Doyle, Counseling and Community Psychology
Nicole Dozier, Genetics
Cassandra Dresler, Electrical Engineering
Paola Dunque, Kinesiology- Exercise Science
Mackenzie Dybvik, Sociology and Biology

Lorena Escandon, Art
Gabriella Esparza, Nursing
Frida Estrada, Secondary Education, Language Arts
Lauren Farrar, Biology and Microbiology
Zachary Flores, Horticulture
Beatriz Flores, Psychology
Clarissa Flores, Biology
Joseph Flores, Civil Engineering
Logan Flowers, Cybersecurity
Anthony Frost, Sociology and Psychology
Namhi Gallegos, Mechanical Engineering
Brandon Garcia, Civil Engineering
Alexia Garza, Nursing
Shabhan George, Computer Science
Alejandro Gomez, Fish, Wildlife, and Conservation Ecology
Janet Gomez, Biochemistry
April Gonzales, Chemical and Materials Engineering, Biomedical and Computational Engineering
Samantha Gonzales, Chemical and Materials Engineering, Biomedical and Computational Engineering
Michael Gremse, Computer Science
Valerie Guha, Biochemistry
Zachary Gurule, Horticulture
Uzias Gutierrez-Hougardy, Mathematics
Valerie Guzman, Industrial Engineering
Nicole Heckathorn, Criminal Justice
Chantay Herrera, Studio Art
Faith Heritage, Kinesiology- Exercise Science
Eliha Hernandez, Biology
Destiny Hernandez, Horticulture
Saul Hernandez, Physics and Linguistics
Gloria Hernandez, Chemical Engineering
Julianna Hernandez, Anthropology
Pamela Hernandez Villalba, Electrical Engineering
Alfonso Hernandez-Barraza, Environmental Science
Hannah Himelright, Applied Mathematics
Sara Hipps, Human Development and Family Sciences, Social Work
Garrett Hitchcock, Kinesiology
Liliana Holguin, MAE/IT
Ruby Holloman, Computer Science
Mariah Humphrey, Animal Science
Monet Hunt, Animal Science
Lauren Hunter, Communication Disorders
Gael Ibarra, Surveying Technology
Emiliano Iniguez Salgado, Journalism and Mass Comm.
Sevren Jackson, Mechanical and Aerospace Engineering
Cesar Jara, Agronomy
Janae Jasso, Kinesiology
Caleb Jimenez, Agricultural Biology, Applied Microbiology
Santiago Jimenez Martinez, Mechanical Engineering
Lizbeth Karely Silva Chavez, MAE/IT
Mason Kokovay, Mathematical Sciences
Niklas Kronlein, Animal Science
Noel Lara, Animal Science
Luis Lazo Loya, Biochemistry
Alejandro Lazo Loya, Biochemistry
Christopher Le-Dozal, Art
Jonathan Leuenberger, Anthropology and Computer Science
Rodney Levendosky, Animation and VFX
Scout Lightfoot, Pre-Med
Erick Lopez, Computer Science
Isaid Lopez, Civil Engineering
Zion Lopez, Art
Hailey Luker, Biology
Noctis Maciel, Art
Ashley Manger, Microbiology

Nika Mansouri Rad, Communication Disorders
Kevin Marin, Aerospace Engineering
Natalie Martinez, Psychology
Julian Martinez, Agricultural Economics and Business
Leigh Mayers, Mechanical and Aerospace Engineering
Guinivere Mayse, Art History and History
Trisha McCaul, Nursing
Lily McMillan, Communication Disorders
Renee Medina, Chemistry
Michael Medina, Aerospace Engineering
Dolores Melchor, Anthropology
Andrew Melendrez Zerwekh, Mathematics
Katie Mena, English - Literature, Language, and Culture
Maria Mendoza, English, Gender, and Sexuality Studies
Zenaida Mendoza Levario, Agricultural Communications
Madison Michaels, Kinesiology- Exercise Science
Elida Miller, Agricultural Economics and Business
Sheyla Miramontes, Electrical Engineering
Breanna Molina, Justice, Political Philosophy, and Law
Alexandra Monroy, Communication Disorders
Jamie Monroy, Philosophy
Astrid Montanez, Psychology
Kimberly Montgomery, Psychology
Lilian Montoya, Gender and Sexuality Studies
Sabrina Montoya, Mechanical and Aerospace Engineering
Celeste Mora, Environmental Science
Angelina Mora, English
Erick Morales, Computer Science
Isaac Moreno-Carillo, Biochemistry, Microbiology, Biology
Lauren Morrow, Biology
Marlene Mosqueda, Chemical Engineering
Makayla Mullins, Animal Science
Alexis Munoz, Studio Art
Mariana Navarrete Ovalle, Physics
Ian Nelson, Biology and Chemistry
Natalie Nguyen, Biology and Anthropology
Alana Pedersen-Kamaka, Conservation Ecology
Fin Pelowitz, Biochemistry
Eliza Phillips, Theater Arts
Chadwick Pilkington, Geology
Jared Pulliam, Aerospace Engineering
Alyssa Quinones, Environmental Science
Hubert Quintana, Engineering Physics
Ariana Rael, Psychology, Music
Tristian Ramirez, Horticulture
Hailey Ramos, Kinesiology
Ethan Reed, Hotel, Restaurant, and Tourism Management
Jesse Reyes, Biochemistry and Physics
Alyssa Richmond, Biology and Psychology
Sandra Rios Alba, Biochemistry
Ashley Rivas, Biochemistry
Adriana Rivas, Food Science and Technology
Kiana Rivera, Animal Science
Arturo Rivera, Electrical Engineering
Edward Rivota, Computer Science
Kaden Robey, Environmental Science
Melissa Rocha, Nursing
Diana Rodriguez, Biology
Mario Rodriguez, Soil Science
Alex Rodriguez, Environmental Science
Hillary Rojas Villalon, Communication Disorders
Karim Rojo, Environmental Science
Chloe Roman, Horticulture
Shylah Romero, Kinesiology-Performance Psychology
Geraldine Romero Tenorio, Actuarial Science and Insurance
Matthew Ross, Kinesiology
Lorelei Roskopf, Kinesiology- Exercise Science

Emma Rozzelle, Kinesiology- Exercise Science
Mario Saenz Trejo, Electrical Engineering, Computer Science
Remi Salinas Schmeis, Mathematics
Shaylie Salopek, Genetics and Biotechnology
Jaedyn Sanchez, Kinesiology- Exercise Science
Eduardo Sanchez Jr., Exercise Science
Maria Sanchez Lopez, Kinesiology
Iris Santos, Biology
Kyla Saucedo, Animal Science
Zachary Schwarzkopf, Fish, Wildlife, and Conservation Ecology
Annette Sciortino, Horticulture
Kenzie Smithyman, Animal Science
Rose Solis, Biology
Lizzett Solis, Biology and Athropology
Estevan Soto, Horticulture
Molly Streich, Biochemistry and Biology
Anika Tafoya, Conservation Ecology
Fabian Talavera, Aerospace Engineering
Petervon Tanedo, Health Sciences- Nursing
Emile Tannous, Agronomy
Ben Tobin, Psychology
Liduvina Tolentino, Biology
Angel Torres, Agronomy
Carlos Torres, Computer Science
Grafton Urbatsch, Computer Science
Kassandra Valdez, Animal Science
Jonathon Valencia, Animal Science
Emma Varela, Fish, Wildlife, and Conservation Ecology
Leonella Vazquez Perez, Foreign Languages and Animal Science
Amanda Velazco, Horticulture
Kaitlin Victorian, Microbiology
Samyra Villaseñor, Animal Science
Brooke Wallace, English- Literature, Language, and Culture
Jackson West, Mathematical Sciences
Camryn Wharff, Psychology
James Wilcox, Engineering Physics- Electrical Engineering
Mary Williams, Microbiology
Joshua Wojahn, Microbiology
Joshua Wood, Government and Criminal Justice
Lacey Yates, Human Development and Family Sciences, Social Work
Brooke Yehle, Genetics and Biotechnology
Joseph Youtz, Fish, Wildlife, and Conservation Ecology
Valeria Yu, Communication Disorders
Mingfang Zhu, Communication Disorders
Emily Zinter, Aerospace Engineering
Hayden Zongker, Aerospace and Mechanical Engineering
Christopher Zubiate, Agronomy

Faculty Mentors:

Dr. Amanda Ashley, Chemistry and Biochemistry
Dr. Abdessattar Abdelkefi, Mechanical Engineering
Dr. Adriana L. Romero-Olivares, Biology
Dr. Alyssa Vanderlinden, Kinesiology
Dr. Ayman Alzaid
Dr. Barbara Lyons, Chemistry and Biochemistry
Dr. Bethuel Khamala, Science
Dr. Bill Hamilton, Computer Science
Dr. Brian Gold, Chemistry and Biochemistry
Dr. Brian Hurd, Ag Economics and Ag Business
Dr. Brook Milligan, Biology
Dr. Carlos Posadas, Criminal Justice
Dr. Catherine E. Brewer, Chemical & Materials Engineering

Dr. Christina K. Dimitriou, HRTM
Dr. Christopher Baker, Chemistry and Biochemistry
Dr. Clint Loest, Animal and Range Sciences
Dr. Concepcion Miller, Science
Dr. Cory Windorff, Chemistry and Biochemistry
Dr. Cynthia Bejarano, English
Dr. Deepak Subedi, Science
Dr. Dominic Simon, Psychology
Dr. Donovan Bailey, Biology
Dr. Eduardo S. Espinoza, Electrical and Computer Engineering
Dr. Elba E. Serrano, Biology
Dr. Eric Yukl, Chemistry and Biochemistry
Dr. Fabrizio Ciccone, English
Dr. Gary A. Eiceman, Chemistry and Biochemistry
Dr. Gaylene Fassenko, Animal and Range Sciences
Dr. Glenn Fetzer, Languages and Linguistics
Dr. Graciela A. Unguez, Biology
Dr. Heather Harper, Sociology
Dr. Hilda Cecilia Contreras Aguirre, Engineering
Dr. Hillary Yoder, Kinesiology
Dr. Ihuiyolitzin Villicana Pedraza, Science
Dr. Ilya Shapirovskiy, Mathematical Sciences
Dr. Immo Hansen, Biology
Dr. Ivette Guzman, Plant and Environmental Sciences
Dr. Jacob Jaszczak, Biology
Dr. Jennifer A. Hernandez Gifford, Animal and Range Sciences
Dr. Jennifer Curtiss, Biology
Dr. Jennifer Frey, Fishery and Wildlife Sciences
Dr. Jennifer Randall, Entomology
Dr. Jessica Houston, Chemical and Materials Engineering
Dr. Joann Latorre, Science
Dr. John Harding, Mathematical Sciences
Dr. Jon Cook, Computer Science
Dr. Joseph Burchett, Astronomy
Dr. Judith Flores Carmona, Curriculum and Instruction
Dr. Julie Shetye, Astronomy
Dr. Katie Hirsch, Kinesiology
Dr. Katie Young, Fishery and Wildlife Sciences
Dr. Kenneth Carroll, Plant and Environmental Sciences
Dr. Kevin Houston, Chemistry and Biochemistry
Dr. Kimberly Oliver, Kinesiology
Dr. Kulbhushan Grover, Plant and Environmental Sciences
Dr. Larissa True, Kinesiology
Dr. Lois Stanford, Anthropology
Dr. Lori Keleher, Philosophy
Dr. M. Blake Rafferty, Communication Disorders
Dr. Mahdi Haghshenas Jaryani, Mechanical Engineering
Dr. Maria Castillo, Biology
Dr. Mariana Alvidrez, Curriculum and Instruction
Dr. Marshall Taylor, Sociology
Dr. Martha Desmond, Fishery and Wildlife Sciences
Dr. Mary Alice Scott
Dr. Merranda Marin, Family and Consumer Sciences
Dr. Michael Hout, HEST
Dr. Michael Marks, Psychology
Dr. Miranda Van Iersel, Electrical and Computer Eng.
Dr. Nancy Chanover, Astronomy
Dr. Naveed Ul Mustafa, Computer Science
Dr. Pautette Vincent-Ruz, Chemistry and Biochemistry
Dr. Phillip Hurst, Creative Media
Dr. Prarthana Shivabasappa, Communication Disorders
Dr. Richard Adeyemi
Dr. Runwei Li, Civil Engineering
Dr. Ryan Ashley, Animal and Range Sciences
Dr. Samuel Worley, ASNMSU
Dr. Scott J. Folkman, Chemistry and Biochemistry

Dr. Sergio Martinez-Monteaquedo, Family and Consumer Sciences
Dr. Shannon Norris-Parish, Agricultural Ext. Education
Dr. Shiva Darian, Computer Science
Dr. Steven Stochaj, Electrical and Computer Engineering
Dr. Tae-Hyung Kim, Health Sciences
Dr. Teri Orr, Biology
Dr. Timothy Ketelaar, Psychology
Dr. Tracey Miller-Tomlinson, English
Dr. Venkat Gopalan, Chemistry and Biochemistry
Dr. Willis Fedio, Home Economics
Dr. Xuifen (Sophia) Li, Plant and Environmental Sciences
Dr. Yanyan Zhang, Civil Engineering
Dr. Zhe Wan, Civil Engineering
Prof. Susan R. Atlas, Chemistry and Chemical Biology
Professor Brita d'Agostino, Art
Professor Craig Cully, Art
Professor Dianna Baltosser, Art
Professor Diego Chávez
Professor Dwight Kealy, Finance
Professor Frannie Miller, Ag Economics and Ag Business
Professor Ken Ruble, Engineering
Professor Rachel Gioannini, Plant and Environmental Sciences
Professor Russell Grahn, Science
Professor Shawn Werner, Communication Studies
Dr. Lisa Peterson, Counseling and Educ. Psychology

Conveners & Judges:

Joy Abdawodike, Food Science
Kavita Adhikari, EPPWS
Azeem Alvi, Chemical Engineering
Dr. Maria Castillo, Biology
Dr. Giovanna Del Sordo, Psychology
Ayodeji Fajoye, Plant and Environmental Sciences
James Flesner, Mechanical and Aerospace Engineering
Dr. Niall Hanan, Plant and Environmental Sciences
Dr. Sabine Hirschauer, Government, Political Science
Dr. Anne Hubbell, Associate Dean of Honors, Communication
Ram Singh Insa, Plant and Environmental Sciences
Dr. Lori Keleher, Philosophy
Khagendra Katuwal, Astronomy
Aman Priyadarshi Kumar, Astronomy
Isha Budha Magar, EPPWS
Dr. Sebastian Melzer, Mathematical Sciences
Alexander Menchaca, Astronomy
Dr. Concepcion Miller, Science Dept. Head, Dona Ana Community College
Hengameh Mirhajianmoghadam, Computer and Electrical Engineering
Dr. William Oakley, Fish, Wildlife, and Conserv. Ecology
Grace Olagunju, Molecular Biology
Francesca Ortega, Biology
Alexander Menchaca, Astronomy
Naga Narendra Reddy Potlapalli, Molecular Biology
Rahila Naseer, Applied Statistics
Yooko Peters, Creative Writing
Carson Pharris, Elementary Education
Tyler Sehna, Rhetoric and Professional Communication
Dr. Ilya Shapirovskiy, Mathematical Sciences
Andrea Soler, Food Science
Dr. Tyson Stolte, English
Dr. Antonio Tenorio, PhD, Chemistry and Biochemistry
Dr. Graciela Unguez, Biology
Dr. Rossana Villegas, Engineering Technology
Mallory Weber, Psychology
Cobe Wilson, Psychology