Saint Xavier University

2025 All-University Research Expo

April 21, 2025

Podium Presentations/Creative Productions

Noon–3 p.m. (Shannon Center Auxiliary Rooms)

Alumni Room/202	Cougar Conference Room/206
Session 1, Noon-1 p.m.	**Session 1, Noon-1 p.m.**
Technology Meets Training: Simulation-Based Education in Speech-Language Pathology Lisa Osier, M.S., CCC-SLP **Speech-Language Pathologists' Approaches to Treating Dysphagia in Patients with Autoimmune Disorders** *Julia Giron **Genetic Screening for MTHFR C677T Mutation Using Restriction Enzymes** *Jaren Orbeck, Ali Abdelrahman, Joanna Chlebek, Andrew Lux, Alicja Bukowski, Anna Tumiel, Pablo Martinez, Lindsay Morgan, Andriana Kilias	**Flipping Physio** Kelsey Moreno **Risk and Identity: Unique Personal Factors and their Associations with Risk-Taking Across Domains** *Vincent Stella, Kelsey Moreno Ph.D., Gregory DeGirolamo Ph.D.
Session 2, 1-2 p.m.	**Session 2, 1-2 p.m.**
Philosophy Goes to High School: Expanding the History of Cold War Era Curricular Reform Tony DeCesare, Ph.D. **A Present in Combustion: Dystopian Futures and Political Imagination in David Rubín's Comics Gran Hotel Abismo (2016) and El Fuego (2022)** Diego Espiña-Barros	**The Gender Makeup of City Leadership Predicts LGBTQ+ Related Legislation** Russell Steiger, Lino Perez, Taylor Romano, Lebron Lanier, Saralynn Figueroa **Ingroup Identity Salience Explains Cross-Temporal and Cross-Cultural Anti-LGB Prejudices** Angela G. Pirlott, Ph.D., Jesus Godina, Bryanna Mendez, Dayanna Gonzalez
Session 3, 2-3 p.m.	**Session 3, 2-3 p.m.**
Unlocking Epiphany Moments Elizabeth-Anne Stewart, Ph.D. **Voice of the Bard: Shakespeare's Dialogue Unmasked with Linguistic Analysis** Marianne McGeary	**Pushed Boundaries: Consent Violations in Ethically Non-Monogamous Sexual Situations** Steve Taylor **The Hyper-Criminalization of Latinx Folks** Luz Acosta
Video Screening, Noon-3 p.m.	
Should We Build a Spaceship, a Dream Machine or a Cozy Little Nest?: Collaborations at the intersection of Music, Painting, Film, Sculpture and AI Nathan Peck, Justine Light, Lilliana Wosko, Talia McMullen, Monae Redd, Kolin Smith, Emily Salgado Huerta, Shay Lieski	

*Student Presenter

Poster Presentations (Shannon Center Main Gym)

Education and Communication

A Nation's Narrative: Examining Patriotism in AP Textbooks
Alexander Art

The Causes and Trends of Protests: An Explanation Through the Centuries of Chicago
Matthew Carpenter

The Transfer of Personality and Behavioral Traits from Organ Donor to Recipient
Deana Elhit

Natural Sciences and Mathematics

Is Democracy Fair?
Adrian Sojka

Affiliative and Aggressive Behavior of Monk Parakeets in Nesting and Foraging Contexts
Avanna Martinez

The Effects of Acrylamide on NH3T3 Cells
Anna Czernik, Tatiana Tatum, Ph.D., Ricardo Monzon, Ph.D., Steven McComis, Chelsea Kline

Antimicrobial and Anti-inflammatory effects of Mexican Desert Plants
Javier Pena, Sharada Buddha, Ph.D.

Synthesis and Characterization of Gold Nanorods for Biological Applications
Jessica Skupien

Cerium Oxide as a Corrosion Inhibitor
Jiovanny Villarreal

Effects of Lunar Environments on Mycelium Growth
Joel D. Redman Chavoyo

Investigating Seasonal Changes in Monk Parakeet Behavior
Karla Covarrubias

Synergistic Effects Between Acrylamide and Various Compounds.
Kylie Allen

Examining the Diverse Diet of the Monk Parakeets Throughout the Chicago Seasonal Changes
Faviola Alvarez

Can We Improve the Oral Hygiene, Such as Plaque Buildup, of a Sample Population in the Southwest Chicago Region with a Specific Brushing or Flossing Intervention Plan?
Samantha Gutierrez

Nursing and Health Sciences

Does Contrast Training Affect the Top Speed Achieved at the 30m Intervals in High School Track Athletes?
Amari Dixon

Does Isometrics Training Improve in Session Rate of Perceived Readiness?
Anthony Fassett

Bi-Lateral and Uni-Lateral Lower Body Training on Performance Outcomes
Armani Christopher

Empowering Healthy Futures: SXU Nursing Students Promoting Wellness in Grades Pre-K to 8
Ayah Musa, Danielle Misner, Lukasz Kwak, Jose Rufino-Montes, Gerardo Torres

What is the Nutrition Knowledge of High School Athletes?
Belicia Espinal

Evaluating Team Performance: A Comparative Analysis Against Established Benchmarks
Brad Leshinske Ph.D., CPSS, CSCS*D

How Sleep Quality Affects Maximum Vertical Jump
Brandt Hixson

What Are the Physiological and Psychological Effects of Using Variable Work to Rest Ratios in College Basketball Conditioning?
Carl Putman

Ludden Speech and Language Clinic Provides Sense of Community for People Living with Aphasia
Carry Zaras

Preferred Coaching Methods and Effect on Athlete Psychology
Chandler Kerr

CRO Defensive Agility Test: A New Agility Test in Volleyball
Christian Oviedo, Joe Eisenmann, Ph.D.

We Need a Wake-Up: A Scrambled Approach in Pharmacology
Courtenay Vihtelic

Difference in Physical Qualities Between Multi-Sport Athletes Aged 11-14 vs. Early Specialization
Dalen Brown

Empowering Healthy Futures: SXU Nursing Students Promoting Wellness in Grades Pre-K to 8
Danielle Misner, Ayah Musa, Lukasz Kwak, Jose Rufino-Montes, Gerardo Torres

Parent/Caregiver and Speech-Language Pathology Involvement: Shaping Children's Augmentative and Alternative Communication Therapy Goals
Ella Kargle

What Are the Lived Perceptions of SLPs and Caregivers Regarding AAC and Confidence in Using and Working with AAC?
Ellie Engel

Critical Components in the Structure of Successful Long-Term Care Facilities
Emily Arroyo

How the Diagnosis of Alzheimer's Disease Affects Family Caregivers: A Qualitative Study
Ezekiel Baranda

Better Decision Making: The Impact of Health Promotion on Children Grades 1-8
Ezekiel Baranda, Jakayla Blockmon, Sofia Carr, Daniela Castro, Katherine Daguio, Megan Gillson, Madison Glesge, Isabelle Hofer, Rachel Lopez

The Effect of Eccentric and Isometric Resistance Training on the 1RM Back Squat
Gabriel Jones

Senior Nursing Students Engage in Physical, Psychological, Relationship, and Professional Self-Care
Jakayla Blockmon

Beginning With Belonging: Preparing Nursing Students for Success
Christina Kent, Jennifer Dusak

Promoting Lifelong Health in our Catholic Schools - K through Grade 8
Angelica Villadelrey, Jessalyn Torres, Maddie Zamora, Kayla Williams,

Does Velocity Based Training Intervention Affect Player Performance in College Football Players?
Jessi Plunkett

The Effects of Handgrip Strength and Throwing Velocity on Fatigue in High School Baseball Pitchers
Jimmy Fairley, Brad Leshinske, Ph.D., CPSS, CSCS*D

Hit: A Composite Score of Neuromuscular Power is Associated with Exit Velocity in Baseball Hitters
Joe Eisenmann, Ph.D., Brad Leshinske, Ph.D., CPSS, CSCS*D

Prevention is Better than a Cure: Healthier Habits, Happier Life
Angela Saldana, Julianne Claas, Kyla Kissee, Chloe Erwin, Monserrat Alvarez, Gabriella Chmiel, Ivy Barajas, Dana Arias, Lupita Flores

Health and Wellness Impact on Performance for Female Athletes
Katelyn Galarza

Eccentric and Overload Training Effects on Mental Output During 1RM in Untrained Women
Lizette Salinas

Exercise Timing and Its Impact on Glycemic Variability in Adults with Type 1 Diabetes
Matthew Zale

Should Developmental Speech and Language Norms be Separated by Gender in Early Childhood?
Maureen Hurley

A New Perspective on Prevention in CSD
Melanie Greenspan

The Effects of a Baseball Season and Nutrition Adherence on Body Composition in High School Male Baseball Athletes
Nicole Lovato, Brad Leshinske, Ph.D., CPSS, CSCS*D

Primary Prevention is The Best Prevention
Alexis Warfield, Norah Klinger, Jasmine Garcia, Faith Rodriguez, Lizbeth Ramos, Naydelin Leon, and Monserrat Moreno

Training Load of Defensive NAIA Football Players
Payton Campbell

Healthy Eating and Disease Prevention of the Bones
Raquel Reyes, Morgan Natanek, Perla Ortiz, Susana Salgado, Hannah Robinson, Ahmad Naser

Training Load Effects of Recovery and Wellness in Female College Basketball Players
Ryann Ogarek

Correlation Between Med Ball Rotational Power and Batted Ball Exit Velocity
Travis Hammond

Social Media and Athletic Performance
Yuliana Cervantes

Implementing a Standardized Nurse Handoff Tool to Improve Communication and Patient Safety on a Telemetry Floor
Zariya Gonzalez and Eileen Dowdall

Social and Behavioral Sciences

Do Smartphones Increase or Decrease Workplace Productivity?
Adam Omar, Kate Carey, Ph.D.

What Should Police Accountability Look Like from the View of Hispanics in the Chicago Area?
Alejandro Caballero

Drug Policy and Resources
Brandon Gutierrez

The Impact of Wrongful Convictions on the Criminal Justice System
Beyonce Mitchem-Nash

Perceptions of Justice Among Indigenous Peoples Who Have Lost Family Members to Residential Schools
Carter Kopp and Jaqueline Battalora, Ph.D., J.D.

What Are Sources of Distrust Toward Law Enforcement Within the Latino community?
Christopher Jimenez

In What Ways has the Academic Performance of College Students Been Negatively Impacted by Smartphone Usage?
Clarke, Lexi; Carey, Kathleen, Ph.D.

The Influence Social Media Has on Body Image Among Young Adults
Delaney Davis, Kate Carey, Ph.D.

Does Community Policing Have an Impact on Crimes Rates in Urban Areas?
Devyn Howard, Kate Carey, Ph.D.

The Mental Health Challenges of Law Enforcement Officers: Experiences, Impacts, and Departmental Support
Evelyn Espinoza, Kate Carey, Ph.D.

How do Women in the Workplace Experience the Influence of Gender Roles?
Jonathan Yanes, Jacqueline Battalora, Ph.D., J.D.

Gamified Math Applications for Preschoolers: A Literature Review
Gabriela Olivares, Taylor Romano, Lino Perez, Guadalupe Ochoa, Gabriella Castro, LaTreese Hall, Ph.D.

Interrupted Reading: How Supplementary Tasks Influence Learning
Gia M Macias

The Effects of Stress and Trauma on Law Enforcement
Isaac Adams, Kate Carey

How does Gen Z Understand the Role of the Park Ranger Within the Field of Law Enforcement?
Jacob Kincade

Perception of Campus Safety Based on Race
Johnnetta Washington, Kate Carey, Ph.D

Does Police Training Reduce Use of Force Incidents?
Josiah Sianez, Kate Carey, Ph.D.

How Has Gen Z Been Impacted by Gun Violence?
Karam Jaber

How do High School Teachers Interpret "Inappropriate Student Behavior" and Develop Strategies for Addressing it?
Katie Montoya

Links Between Parent-Child Social Behaviors and Math Talk
LaTreese V. Hall, Melanie Rengel, Hannah Bowley, Daniela Alvarez-Vargas, Carla Abad, Dyamond Overton, and Shannon M. Pruden

In What Ways Does the Experience of Growing up in an Underserved Community Influence One's Life as a Young Adult?
Lendale Franklin, Kate Carey, Ph.D.

The Effects of Mental Health on Student's Academic Performance
Litzy Elias, Kate Carey Ph.D

What do Insights from the Experience of Juvenile Correction Adjudication Suggest is Needed to Improve the Juvenile Correctional System?
Maria Belem Grande Tepoz

The Impact of Police Use of Weapons on the Daily Lives of Citizens
Marquel Porter

What is the Experience of Juvenile Adjudication in Cook County Concerning Restorative Justice?
Paola Francisco

Online Child Trafficking: How Does Technology Intersect with Sexual Exploitation
Savannah Davis; Kate Carey, Ph.D

How Does the Palestinian Genocide Significantly Impact the Lives of College Students?
Shurouq Ideis, Kate Carey, Ph.D.

The Impact of Financial Crisis on Mental Health in Young Adults
Caleen Padilla

The Pressure to Perform: Anxiety Levels Among College Professors to Perform Well
Thalia Jimenez

How Does Race Influence Student Perceptions of Their Ability to Achieve Academic Success and Obtain Their Diploma on Campus?
Yair Tapia, Kate Carey, Ph.D.

Art and Design

Canine and Feline Wellness Handbook
Anahi Moreno

Nomad Gear
Troy Dorian

My Whole World
Jacquelyn Santana

Pick up the Pieces
Talia McMullen

Unmasking Invisible Disorder
Julia Walko

I Need More
Angel Chavez

Abused Dolls
Angelena Clayton

Unknown World
Gabriel Ojeda

Noggin
Luis Solorzano

Mind, Body and Soul
Valentine Tokarczyk

Symbiosis in Tension
Fabrizio Coss

AFTERMATH
Luis Garibay

Teyolia (Someone's Soul)
Melanie Marqez

Stories from Addiction
Cinthya Luna

Starshine
Isabela Lujan Cabral

In a World of Realism
Sarah Mohamed