

## Research Day 2026 Oral Presentations

### 108 Hannan Hall - Charles Gallagher

Session	Speaker	Title	College/School/Dept	Affiliation	Time*	
<b>1</b>	1	<a href="#">Carolyn Concia</a>	Opioid Tapering in Older Adults in Chronic Pain	Nursing	Doctoral student	10:30
	2	<a href="#">Ammiel Baldevia</a>	From Campus to Creek: Mapping Phosphorus Pollution Hotspots at Catholic University	Eng., Phys., Compt./Civil & Env.	Undergrad	10:42
	3	<a href="#">Emma Barnhart</a>	Forgotten Patriots: Soldiers Who Crossed the Delaware for American Freedom Without Receiving Their Own	A&S/History	Undergrad	10:54
	4	<a href="#">Sebastian Bilinski</a>	Sulfur Concrete: a Sustainable Mixture with Unusual Properties	A&S/Chemistry	Undergrad	11:06
	5	<a href="#">Shadaab Ahmed</a>	TRUST-X: Triage with Uncertainty and Structured Transparency for X-Ray Imaging	Eng., Phys., Compt./Data Analytics	Master's student	11:18
	<b>BREAK</b>					
	6	<a href="#">Hanh Hoang</a>	Pulsed Blue-Light Crosslinking Enhances the Mechanical Strength and Bioactivity of Hydrogel Bioinks through Serum Protein Retention	Eng., Phys., Compt./Biomedical	Doctoral student	11:40
	7	<a href="#">Thomas Caprio</a>	The Last Austrian Baron: Karl Werkmann's Work as Legitimist and Propagandist After the Fall of the Habsburg Monarchy (1918-1951)	A&S/History	Undergrad	11:52
	8	<a href="#">Grace Ciszewski</a>	Improving Pediatric Postoperative Pain Assessments: Evaluation of a Nursing Education Intervention on the Use of Age-Appropriate Pain Scales	Nursing	Doctoral student	12:04
9	<a href="#">Emily Brabec</a>	Understanding Burnout in Catholic Clergy: A Literature Review	A&S/Psychology	Master's student	12:16	

### Della Ratta Auditorium - Chris Raub

Session	Speaker	Title	College/School/Dept	Affiliation	Time	
<b>2</b>	1	<a href="#">Victoria Corado</a>	Implementation and Evaluation of an Educational Intervention to Enhance Pediatric Pain Reassessment among Registered Nurses in an Acute Care Setting	Nursing	Doctoral student	10:30
	2	<a href="#">Francesca Ramos</a>	A Voice for the Voiceless: Archbishop Clarizio and the Holy See's Role in the OAS 1965 Post-Trujillo Dominican Crisis	Theology & RS	Undergrad	10:42
	3	<a href="#">Aaron Cruz</a>	Reimagining Livable Density Through Stepped Massing at Union Market, Washington, DC	Architecture and Allied Arts	Undergrad	10:54
	4	<a href="#">Sebastian Cuervo</a>	Trust Your Gut: How Antidepressants are Hurting the Human Gut Microbiota	A&S/Biology	Undergrad	11:06
	5	<a href="#">Andrew Heller</a>	An Analysis of Single-Phase and Multi-Phase Cine CTA for Deep Learning-Based Cardiac Structure Segmentation	Eng., Phys., Compt./Computer Science	Master's student	11:18
	<b>BREAK</b>					
	6	<a href="#">Jason Davison</a>	Plastics in the Environment	Eng., Phys., Compt./Civil & Env.	Faculty	11:40
	7	<a href="#">Samantha Davis</a>	Developing and Implementing a Clinical Decision Tree for Disordered Eating in Pediatric Diabetes: A Case Study of Evidence-Based Clinical Triaging in Pediatric Psychology	A&S/Psychology	Master's student	11:52
	8	<a href="#">Mattea Dieckmann</a>	Isolating Volatile Components: A Comparative Analysis of Simple, Fractional, and Steam Distillation	A&S/Chemistry	Undergrad	12:04
	9	<a href="#">Phuc Long Duong</a>	Enhancing Microfluidic Direct Methanol Fuel Cell (uDMFC) Performance with Electrofabricated Chitosan Membrane Array	Eng., Phys., Compt./Mechanical	Doctoral student	12:16
10	<a href="#">Sophieak Dy</a>	Net-Zero Design of a Pregnancy Visitation Center	Architecture and Allied Arts	Master's student	12:28	

### 126 Gowan - Elise Cardinale

Session	Speaker	Title	College/School/Dept	Affiliation	Time	
<b>3</b>	1	<a href="#">Mary Fallon</a>	Results of the Resilience Builder Program-Universal Pilot Study	A&S/Psychology	Doctoral student	10:30
	2	<a href="#">Laura Daughtery</a>	Addressing the Issue of Poverty in Community: A Town-Gown Experiment	NCSSS	Faculty	10:42
	3	<a href="#">Zoe Ferrer</a>	The Influence of Jazz in Disney Films on the Emotional and Psychological Development of Young Girls	A&S/Chemistry	Undergrad	10:54
	4	<a href="#">Nathan Ford</a>	Printing Blood Vessels? Science Fiction or New Reality	Eng., Phys., Compt./Biomedical	Undergrad	11:06
	5	<a href="#">Jordan Gehrig</a>	Belief vs. Law: Young Catholic Attitudes on the Morality and Legality of the Death Penalty	A&S/Sociology	Master's student	11:18
	<b>BREAK</b>					
	6	<a href="#">Minh Nhat Huynh</a>	Decoupling Refractive Index and Thickness in Quantitative Phase Imaging using an Iterative Projection Algorithm	Eng., Phys., Compt./Electrical	Doctoral student	11:40
	7	<a href="#">Tommaso Marena</a>	QuantumFold: A Hybrid Quantum-Classical Approach to Protein Folding	A&S/Chemistry	Undergrad	11:52
	8	<a href="#">Francesca Ramos</a>	Big Brother is Watching You (But He's Got a Bassline): Surveillance, Sadness, and Soft Power in The Police's Cold War-Era Pop	Theology & RS	Undergrad	12:04
	9	<a href="#">Maria Bystrowska</a>	Oppression and the Transformation of Human Dignity: American Slavery and Eastern-Bloc Totalitarianism	A&S/Politics	Undergrad	12:16
10	<a href="#">Camille Gledhill</a>	Anxiety lives in the space between people	A&S/Sociology	Undergrad	12:28	

### Session 4 - Conway 110 - Chuan-Fu Lin

Session	Speaker	Title	College/School/Dept	Affiliation	Time	
<b>4</b>	1	<a href="#">Akib Jabed</a>	Bioprinting of perfusable vessel networks using stereolithography with a liquid crystal display	Eng., Phys., Compt./Biomedical	Doctoral student	10:30
	2	<a href="#">Haley Jackson</a>	Civic Concrete: Preserving the Identity and Redefining the Purpose of the J. Edgar Hoover Building	Architecture and Allied Arts	Master's student	10:42
	3	<a href="#">Sr. Tintumol Joseph</a>	Religious Identity Formation in Emerging Adulthood: A Multidimensional Person-Centered Approach	A&S/Psychology	Doctoral student	10:54
	4	<a href="#">Nora Kavanagh</a>	Married Clergy as Solution to Priest Shortage? A Study of Celibacy, Vocation, and Male-Female Complementarity	Theology & RS	Master's student	11:06
	5	<a href="#">Suzanne Hollman</a>	The Making of American Psychiatry at St. Elizabeth's Hospital: 1903-37	School of Arts and Sciences	Faculty	11:18
	<b>BREAK</b>					
	6	<a href="#">Gabriella Lazarte</a>	"Exosomal Echoes": Early Detection for Families	A&S/Chemistry	Undergrad	11:40
	7	<a href="#">N Venkata Satya Sai Krishn</a>	Risk Analytics for Federal Contract Oversight using Machine Learning Approach	Eng., Phys., Compt./Computer Science	Master's student	11:52
	8	<a href="#">Elizabeth McGill</a>	Examining the efficacy of Kids Out Loud: a summer treatment camp for youth with Selective Mutism	A&S/Psychology	Undergrad	12:04
9	<a href="#">elipe Julián Mosquera Blanc</a>	Power Transition and Imperial Logrolling: Structural and Domestic Causes of the Spanish-American War	A&S/Politics	Doctoral student	12:16	

### Session 5 - Crough Center - Greg Miller

Session	Speaker	Title	College/School/Dept	Affiliation	Time	
<b>5</b>	1	<a href="#">Grace Ryan</a>	Infant Positioning Assessment Tool Implementation in a Level IV NICU, A Quality Improvement Initiative	Nursing	Doctoral student	10:30
	2	<a href="#">Anthony Ozog</a>	Predicting Antibacterial Activities of Pharmaceuticals	A&S/Mathematics	Undergrad	10:42
	3	<a href="#">Antho Ngo</a>	Multi Dimensional Management Strategy	Eng., Phys., Compt./Eng. Management	Master's student	10:54
	4	<a href="#">Grace Reed</a>	Faith as Spear: Black Spiritual Traditions, Mental Health, and Uncompromising Liberation	A&S/Africana Studies	Undergrad	11:06
	5	<a href="#">Harshavardhan Renjarta</a>	An AI-Driven System for Early Skin Cancer Screening Using Dermoscopic Images	Eng., Phys., Compt./Computer Science	Master's student	11:18
	<b>BREAK</b>					
	6	<a href="#">Mary Rose Yockel</a>	The Impact of Parenting Self-Efficacy on Child Involvement in Illness Management and Functioning in Families where a Child has a Medical Condition	A&S/Psychology	Doctoral student	11:40
	7	<a href="#">Jack Falcon</a>	Flexible Engineering: Why Protein Disorder Matters for Cell Signaling	A&S/Chemistry	Undergrad	11:52
	8	<a href="#">Sandeep Shiraskar</a>	Harnessing LLMs to Navigate Digital Data and Thwart Cyberattacks	Eng., Phys., Compt./Computer Science	Doctoral student	12:04
9	<a href="#">Therun Solangarachi</a>	How Youth Control the Feed: TikTok and the Future of Celebrity Culture	A&S/Global Studies	Undergrad	12:16	

*Due to this session being short, the session moderator can engage audience in global discussion, or solicit additional questions about individual presentations.*

### Session 6 - Ward Recital Hall - Beth Edinger

Session	Speaker	Title	College/School/Dept	Affiliation	Time	
<b>6</b>	1	<a href="#">Junghee Son</a>	Inclusive Piano Pedagogy for Neurodiverse Learners: Surveying Teacher Experiences, Addressing Resource Gaps (part 1), and Delineating Tailored Strategies for Students with ASD and ADHD (part 2)	A&S/Music & Drama	Doctoral student	10:30
	2	<a href="#">Elizabeth Tandilashvili</a>	Identifying Early Markers of Emotion Regulation Risk: The Role of Infant Reactivity	A&S/Psychology	Doctoral student	10:42
	3	<a href="#">Daniel Campbell</a>	The Piano as Narrator in Schubert's Winterreise	A&S/Music & Drama	Undergrad	10:54
	4	<a href="#">Clare Tong</a>	Spasticity after Spinal Cord Injury: A Journey to the Solution	Eng., Phys., Compt./Biomedical	Undergrad	11:06
	5	<a href="#">Junghee Son</a>	Carlos Guastavino's Las Presencias: Bridging Technique, Expression, and Pedagogy in Argentine Piano Music	A&S/Music & Drama	Doctoral student	11:18
	<b>BREAK</b>					
	6	<a href="#">Laura Trujillo</a>	An AI-Enabled Framework for Risk Scoring in Healthcare	Eng., Phys., Compt./Computer Science	Master's student	11:40
	7	<a href="#">Yuan Lai</a>	Mozart's Hidden Treasure: Research on the Concert Aria Un Bacio di Mano	A&S/Music & Drama	Doctoral student	11:52
	8	<a href="#">Raquel Ruiz</a>	Ethical AI	A&S/Psychology	Undergrad	12:04
	9	<a href="#">Yayu Li</a>	Understanding Haydn and Mozart's Piano Sonatas	A&S/Music & Drama	Doctoral student	12:16
10	<a href="#">Christopher Wanjohi</a>	Macroeconomic Early-Warning System for Recessions and Inflation	Eng., Phys., Compt./Computer Science	Master's student	12:28	

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