Guide to 2020Undergraduate Research and Arts Exposition

Wednesday, May 27 8:30am –

Thursday, May 28 5:00pm

- The Office of Undergraduate Research is using the Symposium platform by Forager One.
- You can access the Expo during the open hours via this link: <u>https://symposium.foragerone.com/northwestern/projects</u>.
- Anybody can access and view the presentations, so we encourage you to share the event broadly. There is great work here, so we want it to reach a full audience!
- Once on the site, you can search by student name or browse a subject area.
- While anyone can view the presentations, to leave comments you must create a profile using a Northwestern email address.
- Northwestern President Morty Schapiro will be addressing all Expo participants at noon (CST) on Wednesday, May 27th. <u>Everyone is</u> welcome to attend.
- Below you will find all of the presenters broken into three groups: poster presentations, oral (short talk) presentations, and the Creative Arts Festival.

Enjoy!

- The Staff of the Office of Undergraduate Research:

Megan Wood, Bryce O'Tierney, Jennah Thompson-Vasquez, Evangeline Su, and Peter Civetta

Guide to 2020 Undergraduate Research and Arts Exposition Poster Presentations (in alphabetical order)

- Leila Al-Nuaimi, "Inequality in America and The Incarceration System: Race Crime and Criminal Justice"
- Fiona Asokacitta, "High on Your Own Supply: A Historiographic Analysis of Opium Use and Addiction in Southeast Asian Scholarship"
- Isabel Azpiroz, "Political Transformations and their effects on feelings, families and foods."
- Jack Benjamin, "Good News and Bad News: College Students' Perceptions of the Political News Media"
- Sydney Bernstein, Jane Choi, Morgan Perlman, Sanja Sharma, and Jeanette Wu, "Point-of-Care Plasma Separator to Supplement HIV Viral Load Testing in South Africa"
- Hanna Bertucci, "Characterization of triclosan tolerance mechanisms across Pseudomonas strains"
- Erik Bidstrup, "Computational Design and in Vitro Modification of the E. coli Ribosome"
- Jessie Bolger, "Analysis of the CueR Constitutive Activator Variant (CueRCA) through Crystallography and DNA-Binding"
- Mari Brady, "The Role of the Atrophin Domain in the Function of AFF1-SEC as a Transcription Inhibitor"
- Reena Burt, "The I in Community: Social Trust for First-Year Students"
- **Cassia Fang Ming Cai**, "Spatial Patterns of Shipping-induced Ground-level Ozone and Particulate Matter in the Great Lakes Region"
- **Riley Ceperich**, "Creating Equity: Stakeholders' Perceptions of an Equity Initiative in a California School District"
- Ravi Chepuri, "A scalable quantum network architecture"
- June Choe, "Computer-assisted snowball search for meta-analysis research"
- Amy Fan, "Does This Look Okay, Mom? Mother-Daughter Interactions with Body Image"
- **Cameryn Farrow-Johnson**, "Intersectionality and Social Identity: An exploration of meaning making and gendered racial identity among Black adolescent girls"
- **Bailey Fluegel**, "Looking into the subsurface: A geophysical investigation of a unique set of "spotted" hypersaline lakes in British Columbia, Canada"

Guide to 2020 Undergraduate Research and Arts Exposition Poster Presentations (continued)

- Maks Giljen, "From Normal to Abnormal: An Analysis of Personality Pathology and Five Factor Model Traits in Youth"
- Andrea Gouvea, "How does adult attachment style relate to inflammation?"
- Kaylee Guajardo, "Attachment Style and Sexual Self-Insight: A Novel Construct"
- Aryaman Gupta, "Team Performance in Long-Duration Space Exploration"
- Yiwei Hang, "In-Vivo Effect of IL-2 Immune Complex on the Progression of Rheumatoid Arthritis"
- William He and Christopher Lee, "Mathematical Modeling of U.S. Elections"
- Joy Hsu, "Stories of Regret in Late Midlife and their Relation to Psychosocial Adaptation"
- Annamarie Jedziniak, "Variations between American States Maternal Mortality Data and Its Consequences on National Metrics"
- Anthony Kang, "Elucidation and Development of Synthetic Receptor Mechanisms for Sensing Protein Ligands"
- Kyoko Kohno, "Identifying Potential Protein Targets of BET Inhibitors in Enhancing Protein Folding"
- Klaudia Konieczny, "Parents Attachment in Conversation with their Children: Impacts on their emotions and the relationship"
- Michelle Kwan, "BMK-1 is a redundant motor force responsible for spindle reorganization"
- Simone Laszuk, "Swimming Upstream: Decreasing Salmon Populations in the Columbia River Basin through Infrastructure and Its Impacts on Indigenous Welfare"
- **Sophia Liu**, "Exploring the effects of phonetic overlap and background noise on incremental processing in children"
- Imani Minor and Suzannah Kingsbury, "What Identities Warrant the Lens of Intersectionality in Psychology and Human Development Research?: A Comprehensive Literature Review"
- Joshua Pang, "Visual Attention to Talkers in Early Childhood"
- **Olivia Putnam**, "Family Dynamics and Brain Structure Interact to Predict Depressive Symptoms in Trauma-Exposed Girls"

Guide to 2020 Undergraduate Research and Arts Exposition Poster Presentations (in alphabetical order)

- **Amy Rogin**, "Potential Air Quality and Health Impacts of Electrifying Chicago's Municipal Vehicles"
- Elizabeth Schauer, "Investigating soluble split-TEV to create new tools for synthetic protein circuits"
- Richa Shah, "Habit Strength, Medication Adherence, and Habit-Based Mobile Health Interventions Across Chronic Medical Conditions: Systematic Review"
- Shreya Sriram, "Effect of Hearing Loss on Selective Attention from Childhood to Adulthood"
- **Russell Steans**, "The Escherichia coli thiB Thiamine Pyrophosphate Riboswitch Uses Strand Invasion as a Primary Mechanism of Gene Regulation"
- **Chase Stokes**, "Seeing What You Want: Prior Belief Biases Perception of Correlation in Scatterplots"
- **Emily Torre**, "Physiological and Affective Responses to Acute Aerobic Exercise, Mindfulness Training and Combined Exercise and Mindfulness Training"
- **Noelle Torres**, "Human Laboratory Investigation of Tobacco Withdrawal and Smoking Relapse in Smokers with and without Major Depression"
- Catherine Walker, "Surveying Current Generation in Metal Nanolayers: The Impact of Rust"
- Robert Wang, "Developments or Division? The Role Large Public Investment Project Plays in Gentrification: A Case Study on Chicago's 606 Bloomingdale Bike Trail"

Guide to 2020 Undergraduate Research and Arts Exposition Oral Presentations (in alphabetical order)

Khaqan Ahmad, "Influence of Socioeconomic Status and Sleep Quality on Risks for Obesity"

- **Tarfa Al-Mansouri, Haya Al-Mohannadi, and Mariam Feroun**, "Digital Diplomacy During the First 100 Days: How GCC Ministries of Foreign Affairs and Ministers Tweeted the Blockade"
- Abby Blum, "Exploring the Relationship Between Children's Life Stories and the Big Five Personality Traits"
- Jolie Ann Boulos, "Are You One of Us? A Qualitative Study of How White Appearing College Students Make Sense of Their Identities, Find Communities, and Interact with Racial and Ethnic Affinity Spaces"
- Andrew Bowen, "Simulating the Period-Recovery Yield of Cluster Eclipsing Binaries with LSST"
- Leah Elena Broger, "Elucidating the Chemical and Structural Basis for Enhanced Immunogenicity with Liposomal Spherical Nucleic Acids"
- Mallory Cooper, "Joint Engagement of Children with Autism Spectrum Disorder During Two Parent-Implemented Interventions"
- Jehannaz Dastoor, "Dismantling Voluntourism: Evaluating the Effects of a Global Health Supplemental Curriculum on Undergraduate Volunteers Travelling to Haiti"
- Julia Dierksheide, "Exploring the Detection of Missing Tissue in Planarian Regeneration"
- Saadia Elahi, "Acoustic Measures of Prosody in Individuals with Autism Spectrum Disorder"
- Norah Fanning, "The Strategic Utilization of Cultural Congruence: An Ethnographic Review of the Complex Positionalities of Chicago's Community Health Workers in Navigating Medical Mistrust"
- Rachel Fimbianti, "It Wasn't Made for Him:' Examining Female-Led Superhero Films *Wonder Woman* and *Captain Marvel* and the Internet Commentary that Followed"
- Maya Glenn, "Black Queer Women's Articulations of Masculinity and Femininity on YouTube"
- Keerti Gopal, "Stories of Activism"
- Jacob Gordon, "A Modest Moral Realism"

Louis Ingram, "Single Exposure to Inaccurate Statements Leads to Reliance on False Information"

- Noor Mazen Quyud, "Educational Constraints in Palestine"
- Zoe Miller, "Hungry Thirsty Roots: Imagining and Constructing Ethnic Otherness in 1800s England"

Guide to 2020 Undergraduate Research and Arts Exposition Oral Presentations (continued)

- Samantha Milstein, "Who am I Now? A Qualitative Study on Identity Formation and Self-Perception Following Parental Death in Adolescence"
- Madelyn Moy, "Evaluating the Effects of a High Fat, Low Fiber Diet on the Composition and Biodiversity of Gut Microbiota in Wild Olive Baboons"
- Jordyn Ricard, "Life Stress and Facial Expressions of Emotion in Individuals at Clinical High Risk for Psychosis"
- **Sophie Rodosky**, "Facial Expressions in Adolescent-Parent Interactions and Links with Anxiety and Depression: A Dyadic Approach"
- Augusta Saraiva, "Developing Special Prevention, Protection and Prosecution Mechanisms for Female Journalists in Colombia"
- Amy Song, "Dendritic Spinule Dynamics, Regulation, and Function"
- Isabella Spinelli, "Completing Mahler's Unfinished Piano Quartet: An Investigation of Ethics, Authenticity, and Genius"
- **Charles Stark**, "Synergistically Activating the Heat Shock Response to Improve Protein Folding in Neurodegenerative Disease"
- **Charles T. Wang**, "Design, Synthesis, and Evaluation of Natural Product-Inspired Small Molecules Targeting the Serotonin-2C Receptor"

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80 Creative Arts Festival

Leila Al-Nuaimi – Fractured (short film)

Ameera Al-Said - "Bloom" (sculpture/photography)

Shaikha Alshaibi – I Am More (documentary)

Lujain Assaf – "The Lucky One" (creative writing)

Morgan Buckley – Hey, Mama and Fallin' (original songs)

Sophia Civetta and Kristen Waagner – "Lancelot" from Spamalot (musical theater choreography)

Avery Etten - "Sea Level Rise in the Florida Keys" (audio podcast)

Mahito Henderson - "A Cat Called Kush: Harmony & Dialogue" (photography)

Nur Hussain and Marielle Cortel - Tea with Mama (documentary)

Kayan Khraisheh - All Roads Lead to Palestine (documentary)

Isabella Spinelli - Mahler's Piano Quarter, Scherzo (music)

Natalie Welber - Anna Amalia (play reading)