UNDERGRADUATE INTERDISCIPLINARY STUDENT RESEARCH CONFERENCE

April 18 & 19, 2018
Spring Creek Campus
Plano, TX

COLLIN COLLEGE
Welcome! Sharing research connects us and builds relationships and communities near and far. This year’s program design was inspired by an 1880s-era map of Collin County. We are proud to be a part of building ideas and research for the next generation!

Please see student volunteers with questions at the information booth.

Tag social media posts #CollinResearch

8:30 – 9:00 a.m.

Welcome and Good morning! Help yourself to breakfast and coffee, Room C

9:00 – 9:50 a.m.

Room A

Current Social Issues
Wendy Williams, TCU, Chair

- Amal Khan, TCU, “Mercury Contamination in Terrestrial Spiders along the Trinity River”
- Christian Nguyen, TCU “Why Do We Love Celebrities? A Search for Success Recipe and Effects on Internet Searches”
- Huong (Heidi) Nguyen, TCU, “Trust in the Sharing Economy - the Case of Uber & Self-driving Cars”
- Martin Ptak, TCU, “Deus Ex Machina”

Room B

Let’s Talk About Sex
Michael Rose, Chair

- Mary Jane Taylor, UNT “Let’s Talk About Sex - Communicating Past Sexual Relationships with Current Partners”
- Gabrielle Popp, “The Effects of Adolescent Pornography Consumption”
- Jerusalem Assefa, “True Love Waits: Communication about Abstinence”
Room D

The Nuances of Sub-Cultures

*Whitney Pisani, Chair*

- **Gayla Pearce**, “What's in a Name?: The Importance of Two Spirits Past and Present”
- **Susan E. Cubberly**, “LGBT Rights and History”
- **Donn Ross Trotter**, “Revolution and Evolution in the Subcultures of Mexico City: The Rise of the Anarchopunks”
- **Jonisha McKiddy, UNT**, “Morphology Studies in Lamkang”

Room E

Contemporary Arguments

*Julie Haworth, UTD, Chair*

- **Najib Gazi, UTD**, “The Interactions of NGOs and MNCs: ACLU vs. Jeppesen”
- **Audra Phillips Crow and Cody Crow, UTD**, “NFL Protest from a Marketing Perspective”

10:00 – 10:50 a.m.

Room A

Child Marriage: Their Problem, Not Ours

*Kay Mizel, Chair*

- Ngon Ly, Samiha Wafi Sharif, and Omoaghe Jackson Urieto

Room B

Redesigning Healthcare for 2020: The Social Medicine Imperative

*Karrie Newby, Chair*

- Neel Desai, Natalia Ganz, and Mathew G. McGuire

Room D

Everything’s Bigger in Texas? Funding, Education, Programs, Policies, & Laws

*Linda Muysson, Chair*

- **Cristine Espinosa**, “Texas’ Funding of Public Education”
• Tiffany Page, “Texas Medicaid Programs for Children with an Autism Spectrum Disorder; Highlighting Program Deficits and Viable Solutions”
• BeLynn D. Hollers, “Texas-Sized Bathroom Bill”
• Jessica Le, “The ‘Unofficial’ Texas Criminal Justice System”

11:00 – 11:50 a.m.

Room A

Contemporary Social Problems
Kay Mizel, Chair

• Mary M. Reisinger and Zachery Treft, “Pesticide Population: Humanity’s Future through Chemical Assimilation”
• Enrico Murcia, Jacob Segoviano, and Brittany Cave, “School Shooting: A Disease in the Shadows”

Room B

In Search of the Stolen, Unwanted and Bamboozled: Varieties of Scholarly Inquiry in Honors History
Kyle Wilkison, Chair

• Ariel Furman, “Saving Adele: A History of the Portrait of Adele Bloch-Bauer I”
• Jana Vaughan, “How Have Adoption Rates Differed Since Roe v. Wade?”
• Zachery Treft, “Operation Ajax: CIA Meddling in the Middle East”

Room D

Nursing Assistant: The Indispensable Role in Healthcare
Tanya Sanchez, Chair

• Nafia Irvinurini, Dirdra Media, Maria Palacios, and Lauren Sommers

Room E

Walks of Life: The Journey of (some) Women
Marta Moore, Chair

• Claire Parde, “How Do Men Differentiate Between Girlfriend and Gal-Pal?”
• Jana Ward, “Hope for Single Mothers”
• Megan Greer, “Amelia Earhart, Castaway”
11:55 - 12:55 p.m.

- Lunch, please find seats as soon as possible in Room C
- Welcome
- President Matkin
- Top Paper Awards

KEYNOTE

M'Banna Kantako

M’Banna Kantako was born in Springfield II, in 1981. He is a humanitarian who believes in leading by example as he strives to teach the importance of community service. M’Banna graduated from Collin College in 2014 with his Associates of Arts degree where he was also the President of the Black Student Organization. He went on to graduate from the University of North Texas with a Bachelor of Science degree with concentrations in Political Science, History and International Studies and he is currently in his last year of studies completing his Master’s degree in Public Administration at the University of North Texas. He is passionate about the pursuit of purpose and community service, and aspires to one day be Secretary General of the United Nations after becoming President of the United States of America.
1:00 – 2:15 p.m.

Room A

Top Paper Panel

*Jenny Warren, Chair*

4-year University

- **Alexandra Neenan, UTD**, “A Review of Early Interventions for Children with Autism”

2-year College

- **Trexiea Hernandez**, “Diversity of Perspective in Cabeza de Vaca’s "Relacion" and Colonial Literature”
- **Cristine Espinosa**, “Latino Representation in Television Exemplified in *Jane the Virgin*”

Health Science Academy

- **Nicole To**, “Holistic Medicine: Combining the East and West Through Diet”
- **Sharin Salam**, “The Balanced Diet”

Room B

Interpersonal Communication Research in Progress

*Kerry Loinette, Chair*

- **Jonavon Ignont**, “Breaking Bad: How Married Couples Talk about Finances”
- **J. Alex Deleon**, “Tell Me Your Grief: How People Communicate the Loss of a Sibling”
- **Cally Alexander**, “Understanding Conflict: How Partners in Long-Distance Relationships Avoid Conflict”
- **Seong Wu**, “Good Teachers and Bad Teachers: How Instructional Communication Can Influence Learning”
Room D

Health Science Academy
Katherine Bell, Chair

- Sarah Hobbs, “Detection of Pathogens of the Microbiome”
- Isabelle Nguyen, “Sleep It Out: The Importance of Sleep and Solution Prototype”
- Fenisha Franklin, “Playing the Harmonies of the Universe: Music Education”
- Alex Graham, “M.I.N.D.”
- Nicole Nguyen, “Disaster Relief Tomorrow”
- Andrew Nguyen, “Effects of Simulations on Improving Memory During Sleep”
- James Brokenbek, “Disaster Relief of Tomorrow”
- Deval Ritesh Patel, “Disaster Relief of Tomorrow – First Aid/Meteorology”
- Saloni Saldhi, “Medical Institute of Neurology at Dallas”

Room E

Does the Language We Speak Influence the Way We Think?
Dulce de Castro, Chair

- Erika Annesi, Purevjay Bayarmunkh, Svetlana Escobar, Hannah Faulkner, Monica Hogan, Joshua Judge, Marya Klemenko, Serder Piriyev, and Zane Sommer

Check out the live-streaming social media wall in Conference Room C!

Name: Guest-Wifi
Password: stUqe6eB
Room A

The Divide: Forces Behind Economic Inequality

_Jomar Isip, Chair_

- Sherry Adadi, Grace Bennett, Mamie Cincotta, Maham Dean, Parker Healy, Htay Htay Kyi, Vin La, Marcus Lawson, Winiee Nguyen, Taylor Sengsay, Andrew Tate, and Muddassir Teli

Room B

Contemporary Issues

_Melanie Kneen, Chair_

- Taylor M. Jariz, “The Coral Curtain Call”
- _Travis B. Buros_, “The Time is Now: Climate Change in Not Going Away”
- _Rose Cernadas_, “Environmental Turmoil in Bolivia”
- Chase Hartin, “Feral Hogs”
- _Jeremy Bearden_, _Brookhaven College_, “Global Warming and the Effect on Outdoor Sports”

Room D

Research in Texas Politics

_Mike McConachie, Chair_

- _Monte Parker_, “Undocumented Workers in Texas: Their Costs & Contributions”
- _Martha Pretorius_, “Texas Property Taxes Reform: Is It Possible?”
- _Monika Mizerska_, “Immunization Law for School Entrance in Texas”
- _Tannaz Tehrani_, “Underfunding of Mental Health in Texas”

Room E

The Relationship Between Political Trust and Health Outcomes in Sierra Leone: A Roundtable Discussion

_Grace Reon, SMU_
8:00 – 8:30 a.m.

Welcome and Good morning! *Help yourself to breakfast and coffee*, Room C

8:30 – 9:45 a.m.

**Room A**

**Social Media: Effect, Affect, Teens, and Possible Addiction**  
*Lisa Nevans, Montgomery College Rockville Maryland, Chair*

- **Cathy Tran, UTD**, “The Effects of Technology on J-12 Students”
- **Elizabeth Momoh**, “Followers of the Façade: The Rising Addiction of Social Media”

**Room B**

**Children’s and Adolescent Literature: A Roundtable Discussion**  
*Khimen Cooper, Sean Ferrier-Watson, Collin College, and Michelle Tvete, Texas A & M University – Commerce, Chairs*

- Hayley Pugh, Kinsleigh Sawatsky, and Abigail Welsh, *Texas A & M – Commerce*
- Mathew Vondersaar, Peizhao Li, Mike Morrison, Samiul Haque, Michaela Thompson, Jordan Abualijazer, Ife Adeyinka, Hannah Neely, and Ashley Rush

**Room D**

**Adaption as Literary Analysis**  
*Gretchen Busl, TWU, Chair*

- Anna Lackey, Cara Davis, Hannah Diaz, Maddison Hurd, AJ Dvorak, and Autumn Bush, *Texas Woman’s University*
Autism & Cancer: Interventions and Interpersonal Communication

Scott Cheney, Chair

- Patricia Northcutt, “How Neuro-typical Adults with Autistic Siblings Disclose their Siblings with Friends”

10:00 – 11:15 a.m.

Main Ball Room, Room C

Poster Session

Organically Derived Epigallocatechin Gallate Compounds for Breakdown of the Zika Virus Envelope
Sangita Vasikaran, UNT

Transgenerational Epigenetic Inheritance of Morphological Traits in the Brine Shrimp, Artemia franciscana
Emmanuel Bakundukize, UNT

Millennials will nullify Inequality for African Americans
Matthew Stusick II

Effects of Environment on the Manifestation of Music Performance Anxiety
Abigail Hawthorne, SMU

Laser-Enhanced Biodegradable Bone Implants: In Vitro-Assessed Biomineralization and Degradation of Mg-Alloy Biomaterials with Optimized Microstructure Modifications
Jonathan Lu

CRASH: Traffic Patterns and Predictive Software
Itzel Tapia

Optimization of Cellulase Production in Bacteria
Wesley Neuer, Hassina Hamzaoui, and Carol Twitchell

Auctoritee Demanded: Invalidating Patriarchal Misogyny by Chaucer’s Wife of Bath
Lezli McDaniel

A Deep Learning Approach for Identification of microRNA Regulatory Modules in Breast Cancer
Vasu Jindal, UTD

Changing the Way We Do Healthcare: Using Music Therapy in Medicine
Sophia Wagle

What Type of Bacteriophage Lives in Your Soil?
Olivia Welkener

A Third World Country’s Problem
Bianca Senchenko
Poem from the Songbird: Vice Versa, and its Editor
Tiffany Nguyen,
UTD

Lucid Dream, a Treatment of Nightmares
Tien Le

Ampicillin Resistance: The Artificial Transformation Process of E. Coli
Abigail Flaming,
NCTC

Extraction and Determination of Lead: Square Wave Stripping Voltammetry
Lasya Priya, Elia Zahabi, and Hilba Benelbar

Academic Self Efficacy: A Psi Beta Project
Josh Arduengo
Psychology students

Genomic Comparison of Bacteriophages in Cluster BF
Tianeaka McClendon,
Richard D. Quick, Lee Hughes,
UNT

Genomic Comparison of Bacteriophages in Cluster BF
Lindsey Dunavan

CBD as a Viable Treatment for Autism
Ashley Flink

Growth of Mind (Mixed Media: clay, paint, wire)
Mamie Hyman

Carousel of Life (Mixed media: Styrofoam, cloth, sticks)
Mithilesh Bhaskaruni and Christopher Thang,
UNT

A Novel Approach to Influencing Actin-Myosin Interaction by Modulating Myosin Subfragment-2 for the Treatment of Cardiomyopathies
Josh Gustamente

Astrophotography Forever Stamp

Room A

The Complexity of American Literature: Writers, Themes, and Ideas
Lisa Kirby, Chair

- Kendall Brunworth, Caroline Dillard, Thomas Farrell, John McGillewie, Kassidi Dennis, and Kris Palmertree

Room B

Reading Gender and Sexuality in Literature
Ashley Bender, TWU, Chair

- Tiernan Shaw, Sydney Santschi, Shad Green, Kira Cheek, and Chelsea Burton, Texas Woman’s University
Room D

Looking into the Future: Medical and Biological Research
Meenakshi Beri, Chair

- Yuqing Liu, UNT, “Investigating the Effects of Time-Mediated Addition of Titanium Dioxide Nanoparticles on the Differentiation and Proliferation of Human Dental Pulp Stem Cells”
- Nicole Hatch, “The Future of Bioenhancement Technology”
- Toluwanmi Ogunbayode, “Genetically Modified Organisms in the United States Crop Market”
- Siddhant Shelke, “Price isn’t Right”

Room E

Ethical Decision Making
Steve Watkins, Chair

- Pamela Van de Branden, “George Botha: Death and Detention”
- Alexandra Spaller, “Therapy Options for Veterans with PTSD”

11:30 – 12:55 p.m.

20-minute Student Success Workshops & Pizza Lunch

- Etiquette with Professor Isip
- Leadership with Professor Rich
- College Application & Scholarship Writing with Professor Davis

1:00 – 2:15 p.m.

Room A

Observations as Research: A Poetry Reading & Discussion
Scott Yarbrough, Chair

Room B

Reading Poetry Against the Grain
Ashley Bender, TWU, Chair

- Maria Cano, Naomi Flores, and Shannon Simmons, Texas Woman’s University

Room D

Literature and Music Reviews
Lubna Javeed, Chair

- Sara Ann Bowden, UNT, “Forces of Nature: Birdsong in Time and Place in Olivier Messiaen’s ‘Le Traquet Stapazin’ from ‘Catalogue d’oiseaux’”
- Samantha Quade, TWU, “Digital Technology in Theatre”
- Sarah Lehmann, Southeastern Oklahoma State University, “A Supposed Happily Ever After: A Shrek and Into the Woods Analysis”
- Douglas R. Laman, “The Evolving Thematic Complexities of Superhero Movies”
- Andrew Kim, UNT, “Graphic Novels about Social Justice in Pedagogy”

Room E

UTD Holocaust Studies
Debra Pfister, UTD, Chair

- Emily Riso, UTD, “The History of Anti-Semitism in Complicit Nations”
- Nabilah Nathani, UTD, “Anti-Semitism of Henry Ford: The Dark Side of an American Icon”
- Ommeid Hosseinalikhan, UTD, “Anti-Fascist Resistance in Poland”
- Rebekah Boyer, UTD, “Looted History: The International Failure in Restitution Policy”

Classroom BB-232

Making Research Tangible: The Multiple Genre Research Project
Scott Cheney, Chair

- Austin Rudeen, Natalie Christiansen, Kiersten Langley, Simbi Sulaiman, and Kailey Zoch
Room A

Critiques of Five Films: *It Happened One Night, Gone with the Wind, The Graduate, The Godfather and Saving Private Ryan*

Deborah Ruiz-Esparza, Chair

- Lakshmi Telidevara, Kelcei Young, Erin Matlack, Jacob Scoggins, Alexander Faulconer

Room B

Dragons and Mice, Lost Boys and Nargles: Critically Analyzing Fictional Characters

Khimen Cooper, Chair

- Nathan Mechler, Stefania Aguilar, Stefan Matic, and Ana Marquis

Room D

WWII, The Holocaust, and the Politics of Genocide

Debra Pfister, UTD, Chair

- Liz Dudek, *UTD*, “International Law and Genocide”

Room E

"What a Strange and Wonderful Story!" Literary Research and College Writing

Scott Cheney, Chair

- Chloe Beam, Payton Charmichael, Amara Dike, and Abigail Stewart

Classroom B-106

Exploring New Frontiers in Children’s Literature

Sean Ferrier-Watson, Chair

- Mathew Vondersaar, Kylee Dodson, Byanka Ramos, and Mariah Hightower
Your comments and suggestions are welcome!

**Visitors**

- https://www.surveymonkey.com/r/SPC77T9

**Presenters**

- https://www.surveymonkey.com/r/5R79CDC

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*Quest, an Interdisciplinary Undergraduate Research Journal* would like to congratulate Leigh Ann Ross on the publication of “Understanding Police Bias.” Her work is an objective analysis of prominent research regarding potential police biases and how officers’ decisions may be influenced by a suspects’ race. Read her essay and other Collin student research in *Quest* at digitalcommons.collin.edu/quest.
Thank You!

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