

source

SYMPOSIUM OF UNIVERSITY RESEARCH AND CREATIVE EXPRESSION

FRIDAY, APRIL 26, 2024: 9 AM- 3:30 PM
16 W. 61ST ST., 11th FLOOR



**NEW
YORK
TECH**

SPONSORED BY NYIT COLLEGE OF ARTS AND SCIENCES

Dear New York Tech Faculty, Staff, Students, and Friends,

Welcome to the Symposium of University Research and Creative Expression (SOURCE) 2024, held on our New York City campus at 16 W. 61st St., on April 26 2024, beginning at 9:00 AM. We are so happy that you will be a part of the celebration of the event's 21st anniversary!

Creative expression and participation in research in collaboration with faculty members and mentors are integral parts of a New York Tech student's educational experience. SOURCE provides a unique opportunity for students to present their research and creative scholarly work while offering common ground for interdepartmental, interschool, and interdisciplinary communication.

I am very pleased to inform you that this year, a total of 113 abstracts were accepted for presentation and 197 undergraduate and graduate students have authored or co-authored these abstracts. These abstracts represent all of our campuses, schools, and colleges, and all disciplines. The depth and breadth of the projects are strong indicators of the quality of our teaching and learning at New York Tech.

I would like to take this opportunity to congratulate all the students for their academic excellence at New York Tech. Many individuals in the New York Tech community have worked on the event to make it a success. I would like to extend a very special thank you to all the students, faculty, administrators, and volunteers who assisted with the preparation, management, and operation of SOURCE.

Sincerely,

Roger Yu, Ph.D.
Chair, SOURCE Committee

***Symposium on University Research and Creative Expression
(SOURCE) 2024 Program***

9:00 a.m.	DOORS OPEN
9:00 - 9:45 a.m.	REGISTRATION and BREAKFAST POSTER PREPARATION/INSTALLATION 16 W. 61st St., 11th floor
9:45 – 10:00 a.m.	OPENING REMARKS
10:00 – 11:00 a.m.	POSTER EXHIBITION I 16 W. 61st St., 11th floor
11:00 a.m. – 12:30 p.m.	ORAL PRESENTATION I 16 W. 61st St., 6th and 7th floor
12:35 – 1:05 p.m.	PRESIDENT HANK FOLEY’S REMARKS 16 W. 61st St., 11th floor Auditorium
1:15 – 2:15 p.m.	POSTER EXHIBITION II Boxed lunches available 1:05 - 1:35 p.m. 16 W. 61st St., 11th floor
2:15 – 3:30 p.m.	ORAL PRESENTATION II 16 W. 61st St., 6th and 7th floor

Oral Presentations 11:00 – 12:30 p.m.	16 W. 61st St. Room 722 Moderator: Melissa Huey	16 W. 61st St. Room 624 Moderator: Samer Charbaji	16 W. 61st St. Room 623 Moderator: Spencer Turkel
11:00 a.m.	“The Effects of Lined vs Plain Paper on Learning”	“Novel B-DNA Dermatophyte Assay for Demonstration of Canonical DNA in Dermatophytes: Histopathologic Characterization by Artificial Intelligence”	“Noise Pollution Solution: A Study on Sound Dampeners”
	Mariam Goher	Zainab Ahmad, Aangi Shah, Julianna D’Amico	Inaya Syed
11:15 a.m.	“Does Precise Information Help Radiologists Find Abnormalities?”	“Bioinformatics as a Tool to Study Genomic Instability: Z-DNA, Triplex DNA, G4-Quadruplex DNA & i-Motif Quadruplex DNA”	“Magnetometers in Smartphone Devices”
	Ola Abozid	Mary Stein, Aangi Shah, Zainab Ahmad, Prutha Patel, Juliana D’Amico	Beza Nigatu
11:30 a.m.	“Health Applications for Microsaccade Measurements”	“Andropause: a covert threat for men's health”	“Tumor Mutation Prediction with Histopathological Images: Deep Learning-based Transformer and CNN Approach with Tile-Based Approach for High-Confidence Predictions”
	Sim Renu, Elana Safonova, Ola Abozid, Josey Spiers	Jac Lun Lin	Md Jobair Hossain Faruk
11:45 a.m.	“How can we measure expertise in radiology? Not by career level!”	“Medical ECG Certification: A tool to augment medical school learning and confidence”	“Bamacar”
	Elana Safonova	Scott Landman	Tammie Perez, Billy Khwaja, Adam Bacchus, Johan Esquivel, Jerry Jeanty
12:00 p.m.	“Perceptual Changes in Meditation”	“Stand-up Comedy and Storytelling for Building Science Communication Skills” (30-minute Performance)	“Earth Analytics NYIT”
	Briana Alcindor, Jovelis Toribio, Lekhana Ramacha		Dev Sharma, Laetitia Mouafo, Dolly Shyam
12:15 p.m.			“When Machine Learning Meets Biology: Softwares to Predict the Potential Formation of Unusual DNA Structures in Human Genes”
		Melisa Sharkly, Ayman Akhter, Ash Scott, Chigozie Henry Umeaku	Alana Singh, Pranaav Venkatasubramian, Joanna Sroka, Anila Khan

Oral Presentations 2:15 – 3:45 p.m.	16 W. 61st St. Room 722 Moderator: Michael Hadjiargyrou	16 W. 61st St. Room 624 Moderator: Nicole Calma-Roddin	16 W. 61st St. Room 623 Moderator: Claude Gagna
2:15 p.m.	“Humanizing Healthcare: A Paradigm Shift through Medical Humanities and Cultural Competency Integration”	“Policy Translation for Youth Health: Bridging the Gap Between Science and Policy to Safeguard Young Consumers”	“Building Successful Economy in Meta Verse”
	Yllka Valdez	Pari Patel, Ryan Ahmed	Saumya Christian, Sushree Swayamsidha
2:30 p.m.	“Synthesis of Quinoline Derivatives as Multi-Target Agents for the Treatment of Alzheimer's Disease”	“Analyzing the Impact: Comparing PowerPoint and Whiteboard Teaching in Higher Education”	“Development of Next Generation DNA Microarrays with the Involvement of the Scripps Research Institute (Edward Guiliano Global Fellowship)”
	Shin-Young Park	Aziza Swift, Brian Martinez	Juliana D'Amico
2:45 p.m.	“Substrate Mimicking: A Prototype”	“Do School-Based Physical Activity Programs Improve Health of Middle School Students?”	“A Study of IoT-Enabled Sensor Solutions for Dynamic Energy Conservation in Buildings”
	Dhriti Rathod	Yana Kostova, Ariana Hernandez	Zayaan Mohammed Muthair
3:00 p.m.	“The Role of University Incubators in Transforming Technology Ideas into Ventures: A Case Study of Niura”	“The correlation between depressive symptoms and familial support and social involvement in college students studying healthcare”	“Closed manual reduction of bilaterally jumped and locked cervical facets under general anesthesia”
	Ryan Ahmed, Pari Patel	Joseph Cerda, Keyana Williams, Monique Williams, Marya Kalil, William DaCosta	Vincy Mathew
3:15 p.m.	“Intellectual Capital and Competitive Advantage”	“Influence of Racial Name Bias on Decision Making”	“The Use of Indole-3-Carbinol for Treatment of ERa-positive Breast Cancer Cells”
	Revanth Dilli, Swapna Bhargavi Gantasala	Mariam Goher, Yusra Ahmed, Davey Mendoza	Shani Kahan

**Poster Presentation Session I
10:00 – 11:00 a.m.
Exhibition Hall
16 W. 61st St., 11th floor**

A 13-Year Nationwide Analysis of Nocardia and Actinomyces Infection Outcomes in Liver Transplant Recipients	Sonika Rathi, Anndrika Bhatia
A Case Report on the Management and Risk-Benefit Analysis of a Spinal Surgical Patient with Comorbidities and Poor Healing Capabilities	Sonika Rathi, Zhen Ye Pan, Suzanne Tawch
A Comprehensive Analysis of Barriers for Urogynecologic Care in Muslim Women	Nawal Wasif
A Fascicle Diptych: Digital Dissection vs. Physical Presentation	Aleksandra Ratkiewicz
A Preliminary Analysis of Critical View of Safety Scoring Between Medical Professionals and an AI Tool	Jennifer Guo
A Rare Presentation of Pyoderma Gangrenosum	Iya Agha
Analyzing the nasal sinuses and cranial pneumatization in the endangered southern cassowary using micro-CT visualizations	Tamar Goldblatt
Anesthetic Management in a Patient with Becker Muscular Dystrophy	Michael Gao, Yesha Patel
ARTES: Arduino Renewable Tracking and Energy System	Ashley Brown, Elijah M Hill
Association of Substance Use with Trauma Outcomes	Madison Salvitti
The Prospectus of Surface Metrology on Seborrhic Keratoses	Therese Anne Limbana
Bloodybuddy	Luis Carrasco Rivera
Cannabidiol (CBD) as a Promising Anti-Cancer Drug	Ariel Shaddaie, Samantha Cornwell
Contralateral Prechiasmatic Interoptic Approach for Microsurgical Clip Ligation of a Medially Pointing Paraclinoid Internal Carotid Artery Aneurysm	Vincy Mathew
Correlating Factors for Discharge to Rehabilitation Facilities Following Hospitalization of COVID-19 Patients	Suraj Jain, Yehuda Azerrad
Delayed Diagnosis of Acute Inflammatory Demyelinating Polyneuropathy Variant of Guillain-Barre Syndrome Due to Possible Anchoring Bias	Elan Adhami
DRMISSIONSNY: A Medical Student's Way of Giving Back	Therese Anne Limbana
Effects of OMT on Blood Glucose and Insulin Sensitivity in Adult Male Rats	Gianna Petrillo, Matthew Staudt, Sarah Lobo
Electromechanical Simulation of the Stomach involving Neural Regulation	Armand Ahmetaj
Evaluating Injury Susceptibility in MLB Position Players: A Retrospective Study	Yehuda Azerrad, Ariel Mayer
Exploring Gut Barrier Dysfunction in Heart Failure: Insights from a Mouse Model	Alexander Malayev, Saud A. Nasruddin, Rupinder Singh, Nicholaos Xenakis, Anthony Pellicano
Federally Qualified Health Centers: Addressing Inequities in Substance Use Disorder Treatment	Syed Ali, Emily Roff, Riya Subbaiah
Graph Learning for Detecting Anomalies in Weighted Signed Networks	Hongbo Du
Gut Microbiome and Depression: How Microbes Affect the Way We Think	Therese Anne Limbana
Hand Gesture Prediction using AI from FSR sensors	Godhuli De
Heart Under Pressure: Understanding Constrictive Pericarditis	Farhaad Rasool, Paul Joseph, Gurpreet Sahansra

How best to learn neuroanatomy? Assessing the NYITCOM-OW 2024 format.	Brett Weinstein
Navigating Concurrent Occipitoatlantal and Cervical Fractures: A Case Study	Zachary Chanmin, Suraj Jain
PAK1 regulates cardiomyocyte autophagy through p62	Caleb Sooknanan
Presentation of DRESS Syndrome Confounded by Increased Autoimmunogenicity	Iya Agha
Pseudoulnar Palsy with Concurrent Wrist Drop: Case Report	Sydney Wolin
Recurrent Laryngeal Nerve Injury During ACDF: Case Report and Review of the Literature	Benjamin Hershfeld
Salmonella Osteomyelitis: Case Report	Benjamin Hershfeld
Sertoli-Leydig Tumors: Understanding a Rare Ovarian Cancer	Paul Joseph, Gurpreet Sahansra, Farhaad Rasool
Stepping Up to Informed Consent: Navigating Foot and Ankle Orthopaedics	Suraj Jain, Zachary Chanmin, Benjamin Hershfeld
Supervised Drug Injection Sites to Reduce Intravenous Drug Usage and Prevent Drug Overdose	Farhaad Rasool
The Business of Healing: What Today's Medical Students Want	Samuel Tringali
The Collaborative CarE Model (CoCM): A Comprehensive Osteopathic Approach to Enhancing Mental Health Care	Aarsh Sheth
The Efficacy of Using a Virtual Reality Program as a Teaching Tool for Osteopathic Medical Students	Cara Maaghul, Rejath Jose, Edward Piscitelli, Jerry Jose, Erum Ahmed
The Replication Of Neural Network models Using A Diverse Set Of Organisms.	Ayman Akhter
The Use and Effectiveness of JAK Inhibitor in the Management of Lichen Planopilaris	Therese Anne Limbana
The Use of Indole-3-Carbinol for Treatment of ERa-positive Breast Cancer Cells	Shani Kahan
Uncontrolled Chronic GERD Masked as Refractory Asthma/COPD	Michael Gao
Unveiling Ramsay Hunt Syndrome: Understanding Symptoms, Treatments, and Recovery	G Sahansra, Farhaad Rasool, Paul Joseph
WarnerAI	Tyler Marcano, Inaya Syed, Andrew Zhang
Weight Gain in Pregnancy: The Effect of Physician Counseling on Gestational Weight Gain	Alon Bezalel
When Machine Learning Meets Biology: Softwares to Predict the Potential Formation of Unusual DNA Structures in Human Gene	Alana Singh, Pranaav Venkatasubramian, Joanna Sroka, Anila Kha

**Poster Presentation Session II
1:15 – 2:15 p.m.
Exhibition Hall
16 W. 61st St., 11th floor**

A geographical network for viral diffusion with demographic and epidemiological data	Gamana Gogineni
A new narrative through the AI/ML Human Intelligence process, with a focus on creating innovative systems in animation, 3D modeling, and UI design.	Monil Gosar
A Novel Eccentric Resistance Training Strategy to Maximize Exercise-Induced Muscle Damage	Shane Phillips
Alcohol addiction in the united states	Sulali Premaratna
Altered Perivascular Adipose Tissue in Menopausal Mice	Reia Thomas
Arthrobacter Phage Swim forms lysogens with a linear genome and no integrase.	Aleeza Mughal, Aminah Sarowar, Alisha Marfani, David Schiller
Arts & Wellness Center, a Circular Approach to Sustainability & Health	Miriam Barbosa
Association of Rare Variants in the MYC Locus with Acute Lymphoblastic Leukemia	Beste Tatlican
Blood Brain Barrier Permeability of PDE5 inhibitors	Joseph Daly
Cardiomyocytes Enhance Lysosomal Function to Mitigate Hyperlipidemia-Induced Cell Death	Nidhi Banker, Anushka Bhatt, Pravin Vathappallil
Characterizing the Prg4-lineage of tendon cells in the hindlimb of mice	David Berlin, Christopher Janton
Characterizing the Sox9-lineage of tendon and ligaments in the hindlimb of mice	Destiny Von Werne, Christopher Janton
Development of Phosphodiesterase-5 Inhibitors for the Treatment of Alzheimer's Disease.	Reshmi John
Differential Gene Expression in Human Nonunion Tissues Against Physiological Fracture Callus	Rishika Thayavally
Dubai's Urban Mirage: A Glimpse into the Future	Tanaya Gawade, Shreya Sanghvi
Empowering Creators via Gen AI	Rupa Samyukta Tumuluri, Ankita Borawake
Enhancing User Onboarding Tutorial in Gravity Sketch	Rohit Srinivas Tulasi, Yashwanth Karthikeyan
Equipment and Inventory Management in Dermatology	Juliette Nutovits
Food Waste in USA	Yi-Che Li
Green Energy	Dan Williams
How do Fans View Images?	Josey Spiers, Stevie Ann Hill, Lekhana Ramachandra, Ayesha Mulla
Improvements of Severe Eczema and Stunted Hair Growth with Osteopathic Manipulative Treatment (OMT) in a Pediatric Case Study	Jarin Tasnim
Intervention To Reduce the Favorability of Eurocentric Beauty Standards	Yana Kostova, Ariana Hernandez
Phylogenetic analysis and regional connectivity when modelling the spread of Influenza Strains in USA	Levi Dong, Nayan Pallothu, Gamana Gogineni
Safe Track Lanyard	Firdaus Khatoon

Sensory Mosaics: An Architecturally Integrative Approach to Sensory Modulation for Care Spaces	Theresa Mark
Tasty Killer	Megan Mignott
The COVID-19 Pandemic	Jarod Pereira
The Gender Pay Gap	Ally Wright
The Impact of IFRS 17 on Insurance Companies: A Study on Half-Year Financial Statements of Direct Insurers	Yue Lin
The Influence of AI in Modern Design	Larissa Sarto
Tunable Etching of Cylindrical Carbon Fiber Microelectrodes	Abdur-Rehman Hussain, Stevin Thomas, Taimoor Chaudhry, Azza Alexine
Utilizing 96-Well Plates and a Microplate Reader to Further Study and Understand Bacteriophages	Amna Syeda