

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***

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| 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. | KEYNOTE ADDRESS: NEW YORK TECH ADMINISTRATION 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 |

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| 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: Michael Hadjiargyrou |
| 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” | | “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 | | 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” | “A new narrative through the AI/ML Human Intelligence process, with a focus on creating innovative systems in animation, 3D modeling, and UI design” |
| | Elana Safonova | Scott Landman | Monil Gosar |
| 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. | | Melisa Sharkly, Ayman Akhter, Ash Scott, Chigozie Henry Umeaku | “When Machine Learning Meets Biology: Softwares to Predict the Potential Formation of Unusual DNA Structures in Human Genes” |
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| Oral Presentations 2:15 – 3:45 p.m. | 16 W. 61st St. Room 722 Moderator: Spencer Turkel | 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**

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| 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, Jeri Ann Ramilo, 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 |
| “Bamacar” | Tammie Perez, Billy Khwaja, Adam Bacchus, Johan Esquivel, Jerry Jeanty |
| 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 |

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| Heart Under Pressure: Understanding Constrictive Pericarditis | Farhaad Rasool, Paul Joseph, G 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, G Sahansra |
| 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, G 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 Prospectus of Surface Metrology on Seborrhic Keratoses | Therese Anne Limbana |
| 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**

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| A geographical network for viral diffusion with demographic and epidemiological data | Gamana Gogineni |
| 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 |

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| 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 |