New York Institute
of Technology

ANNOUNCEMENT OF 2018 AWARDS
Institutional Support of Research and Creativity Grants
Teaching and Learning with Technology Grants

The Office of Academic Affairs of the New York Institute of Technology is pleased to announce the award of Thirty-Nine competitive *Institutional Support of Research and Creativity Grants* and *Teaching and Learning with Technology Grants* to the following NYIT faculty members in 2018, in support of research and creative endeavors:

Reza Khalaj Amineh, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant: *Three-Dimensional Holographic Imaging Using Single Frequency Microwave Data.*

N. Sertac Artan, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant: *Design of an Efficient Seizure Detection Device.*

Lissi Athanasiou-Krikelis, Ph.D., Assistant Professor, English, Principal Investigator
ISRC Grant: *National Identity and the Other in Children's Literature: The Case of Greece and Turkey.*

Melanie Austin-McCain, OTD, MPA, OTR/L, Asst. Professor, Occupational Therapy, Principal Investigator
Luzia Ogureck, M.A., Associate Director, International & Experiential Education, Co-Principal Investigator
Gordon Schmidt, **Ph.D.,** Professor and Associate Dean, School of Health Professions, Co-Principal Investigator
TLT Grant: *Health On the Go! - A Motivational Health App: Pilot of Prototype Design for Sleep Health.*

Houwei Cao, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Deep Reinforcement Learning-based Spontaneous Multimodal Emotion Recognition & Affect Sensing.*

Dorinamaria Carka, Ph.D., Assistant Professor, Mechanical Engineering, Principal Investigator
ISRC Grant: *3D Computational Study of the Effect of Endothelial Micro-Calcification on Local Stresses and Hemodynamics.*

Batu K. Chalise, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant: *Optimizing UAV-based Communications for Disaster Relief Operations.*

Deborah Cohn, Ph.D., Associate Professor, Management Science & Marketing Studies, Principal Investigator
Birasnav Muthuraj, Ph.D., Assistant Professor, Management Science & Marketing Studies, Co-Principal Investigator
TLT Grant: *Professional Enrichment Program of NYIT School of Management: Mobile App Technology Integration to Enhance Teaching and Learning.*

Andrew J. Costello, Ph.D., Assistant Professor, Behavioral Sciences, Principal Investigator
ISRC Grant: *Comparison of Simultaneous and Sequential Eyewitness Identification.*

Elizabeth J. Donaldson, Ph.D., Associate Professor, English, Principal Investigator
ISRC Grant: *Psychographics.*

Aydin Farajidavar, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant*: Effects of Vagus Nerve Modulation on Gastric Motility: A Functional Mapping Study.*

Jole Fiorito, Ph.D., Assistant Professor, Life Sciences, Principal Investigator
ISRC Grant: *PDE5/HAT Combination Treatment for Alzheimer's Disease: A Proof of Concept Study.*

Claude Gagna, Ph.D., Associate Professor, Life Sciences, Principal Investigator
ISRC Grant: *Fabrication of Alternative (i.e., Z-DNA) and Multistranded (i.e., Quadruplex DNA), Next Generation Low Density Nucleic Acid Microarrays: Use of Chemical and Anti-Nucleic Acid Antibody Probes for Testing Functionality of Prototypes, and Creation of Biotechnology Startup Company.*

Naomi Frangos, B.Sc. Arch., B.Arch., M.Arch., Associate Professor, Architecture, Principal Investigator
Milan Toma, Ph.D., Assistant Professor, Mechanical Engineering, Co-Principal Investigator
Matthew Cornelius, MSc., Art Media Technical Director, Co-Principal Investigator
Dustin White, B.Sc. Arch, M.Arch., Director of Digital Fabrication Lab, Co-Principal Investigator
ISRC Grant: *Bioinformed Structural Joint System Design: From Biological Morphologies to Variable Assemblies.*

Farzana Gandhi, RA, Associate Professor, Architecture, Principal Investigator
Nicholas Bloom, Ph.D., Associate Professor, Chair, Social Sciences; Interdisciplinary Studies, Co-PI
Amy Bravo, M.A., Senior Director, International and Experiential Education, Co-Principal Investigator
Robert Cody, B.Arch., Interim Associate Dean, Co-Principal Investigator
Julie Godsoe, M.F.A., Editorial Director, Communications & Marketing, Co-Principal Investigator
Jaime Martinez, Ph.D., Associate Professor, Chair, Instructional Technology, Co-Principal Investigator
Sonia Rivera Martinez, DO, FACOFP, Assoc. Prof. & Assoc. Medical Director, Clinical Sciences, Co-PI
Diana Moronta, M.S.L.I.S., Librarian, Instruction/Technology Service, Co-Principal Investigator
ISRC Grant: *R-CUBED: Relief x Reconstruction x Resiliency, Building Infrastructures with a Multidisciplinary Disaster Response Collective.*

Paolo Gasti, Ph.D., Assistant Professor, Computer Science, Principal Investigator
Kiran S. Balagani, Ph.D., Associate Professor, Computer Science, Co-Principal Investigator
ISRC Grant**:** *DeepPasswords: Efficient Password Guessing Using Deep Neural Networks.*

Bryan Gibb, Ph.D., Assistant Professor, Life Sciences, Principal Investigator
ISRC Grant: *Understanding Bioluminescence: Custom Design of an Economical Growth Environment for Studying Bioluminescent Dinoflagellates.*

Amanda Golden, Ph.D., Assistant Professor**,** English, Principal Investigator
ISRC Grant: *Digital Global Literary Archives.*

Jonathan Goldman, Ph.D., Associate Professor, English, Principal Investigator
ISRC Grant: *Chapter about Tom Stoppard, Modernism and the Avant-Garde for Cambridge University Press Volume.*

Ellen Greer, Ph.D., OT/L, NCPsyA, LP, Assistant Professor, Occupational Therapy, Principal Investigator
Melanie Austin-McCain, OTD, MPA, OTR/L, Asst. Professor, Occupational Therapy, Co-Principal Investigator
ISRC Grant: *Launch Empower, Advocate, Prepare (LEAP) towards LGBTQ Youth Psychosocial Access to Occupational Therapy Services.*

John Hanc, M.A., Associate Professor, Communication Arts, Principal Investigator
ISRC Grant: Long Walk Out of the Woods*: Memoir of Dr. Adam Hill.*

Xueqing Huang, Ph.D., Assistant Professor, Computer Science, Principal Investigator
Wenjia Li, Ph.D., Assistant Professor, Computer Science, Co-Principal Investigator
ISRC Grant: *Trust Establishment and Management for Cloud Enabled IoT Networks.*

Hui-Yin Hsu, Ph.D., Professor and Chairperson, Teacher Education, Principal Investigator
ISRC Grant: *A Comparison Study of Measures of Critical Thinking Skills: Machine Rating vs. Human Rating?*

Azhar Ilyas, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
Michael Hadjiargyrou, Ph.D., Professor, Life Sciences, Co-Principal Investigator
ISRC Grant: *The Effects of a Siliconized Biodegradable 3D Scaffold on Osteoblast Behavior.*

Ehsan Kamel, Ph.D., Assistant Professor, Energy Management, Principal Investigator
Xueqing Huang, Ph.D., Assistant Professor, Computer Science, Co-Principal Investigator
Aydin Farajidavar, Ph.D., Assistant Professor, Electrical and Computer Engineering, Co-Principal Investigator
ISRC Grant: *Design and Implementation of an Intelligent Wireless Sensor Network in Energy Smart Buildings for Model Predictive Control of Heating and Cooling System.*

Dong-Sei Kim, M.Des., M.S.AUD, B.Arch., Assistant Professor, Architecture, Principal Investigator
ISRC Grant: *Project DMZ: 30-Years After.*

Colleen P. Kirk, Ph.D., Assistant Professor, Marketing, Principal Investigator
ISRC Grant: *My, Mine and Me: Admiration, Rivalry and Psychological Ownership in Narcissistic Consumers.*

Fang Li, Ph.D., Associate Professor, Mechanical Engineering, Principal Investigator
ISRC Grant*: Stretchable Nanogenerator for In Vivo Energy Harvesting.*

Purushottam L. Meena, Ph.D., Associate Professor, Management Science, Principal Investigator
Shaya Sheikh, Ph.D., Assistant Professor, Operations Management, Co-Principal Investigator
ISRC Grant: *Supply Chain Design under Disruptions Risks and Carbon Emissions.*

John Misak, D.A., Assistant Professor, English, Principal Investigator
Kevin LaGrandeur, Ph.D., Professor, English, Co-Principal Investigator
TLT Grant: *Development of an Augmented Reality Application for Learning Hamlet.*

Navin Pokala, Ph.D., Assistant Professor, Life Sciences, Principal Investigator
ISRC Grant*: Biological Mechanisms of Choice and Decision-Making.*

Maryam Ravan, Ph.D., Assistant Professor, Electrical & Computing Engineering, Principal Investigator
ISRC Grant: *Developing a Machine Learning Approach to Investigate the Brain Connectivity in Schizophrenia and the Effect of Clozapine Therapy.*

Anand Santhanakrishnan, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
N. Sertac Artan, Ph.D., Assistant Professor, Electrical and Computer Engineering, Co-Principal Investigator
Ziqian Dong, Ph.D., Associate Professor, Electrical and Computer Engineering, Co-Principal Investigator
ISRC Grant*: Connectivity and Reliable Data Delivery in 5G-Wireless Networks Based Health Care Monitoring Systems.*

Milan Toma, Ph.D., Assistant Professor, Mechanical Engineering, Principal Investigator
ISRC Grant: *Computational Assessment of Traumatic Brain Injuries related to Football.*

Jonathan Voris, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Investigating the Viability of Mimicry Attacks against Behavior-Based Mobile Authentication.*

Nader Vossoughian, Ph.D., Associate Professor, Architecture, Principal Investigator
Jan Greben, B.Arch., M.S., Adjunct Professor, Co-Principal Investigator
ISRC Grant: *E.1027 to Tempe à Pailla: Collaboration to Independence in the Work of Eileen Gray.*

Shiang-Kwei Wang, Ph.D., Professor and Associate Dean, Masters Instructional Technology, Principal Investigator
Hui-Yin Hsu, Ph.D., Professor and Chairperson, Teacher Education, Co-Principal Investigator
TLT Grant: *Prepare Teacher Candidates' Abilities to Integrate Computer Science (CS) Education in K-8 Classrooms through Robotic Programming.*

Melda N. Yildiz, Ed.D., Associate Professor and Chairperson, Instructional Technology, Principal Investigator
Amr A. Swid, Ph.D., MBA, Assistant Professor, Management and Marketing, Co-Principal Investigator
Robert Feirsen, Ed.D. Assistant Professor, Educational Leadership & Technology, Co-Principal Investigator
ISRC Grant: *Storytelling with Data and Visualization in Education: Semiotics and Multicultural Perspective***.**

Roger Yu, Ph.D., Professor and Dean Emeritus, Physics, Principal Investigator
TLT Grant: *An Innovative Way of Engaging Students in STEM Courses using their Smart Phones*.