

ANNOUNCEMENT OF 2022 AWARDS

**Institutional Support of Research and Creativity Grants
and
Teaching and Learning with Technology Grants**

The Office of Academic Affairs of New York Institute of Technology is pleased to announce the award of 27 competitive *Institutional Support of Research and Creativity Grants* and *Teaching and Learning with Technology Grants* to the following NYIT faculty members in 2022, in support of their research and creative endeavors:

N. Sertac Artan, Ph.D., Associate Professor, Electrical & Computer Engineering, Principal Investigator

Anand Santhanakrishnan, Ph.D., Associate Professor, Electrical & Computer Engineering, Co-Principal Investigator

ISRC Grant: *A Neuroadaptive Approach to Improve Student Learning Outcomes using Functional Near Infrared Spectroscopy*

Kiran S. Balagani, Ph.D., Associate Professor, Computer Science, Principal Investigator

Paolo Gasti, Ph.D., Associate Professor, Computer Science, Co-Principal Investigator

ISRC Grant: *PIN-pad Acoustic Fingerprinting Attacks: A Systematic Study Towards Effective Countermeasures*

Houwei Cao, Ph.D., Associate Professor, Computer Science, Principal Investigator

ISRC Grant: *Sequential Recommender System Based on Content Analysis and User Behavior Study*

Yusui Chen, Ph.D., Assistant Professor, Physics, Principal Investigator

ISRC Grant: *Developing Environment-assisted Quantum Computing Architecture*

Sophia Domokos, Ph.D., Assistant Professor, Physics, Principal Investigator

Melissa Huey, Ph.D., Assistant Professor, Behavioral Sciences, Co-Principal Investigator

TLT Grant: *Using Emerging Technology to Improve Reading: An Interdisciplinary Implementation of Perusall*

Chris Douvris, Ph.D., Associate Professor, Biological & Chemical Sciences, Principal Investigator

ISRC Grant: *Investigation on the Presence and Concentration of Toxic Contaminants in Dental Devices by ICP-OES, ICP-MS, and LC-MS Spectroscopy*

Beth Elenko, Ph.D., Associate Professor, Occupational Therapy, Principal Investigator

ISRC Grant: *Families' perspectives on coaching model of early intervention*

Jole Fiorito, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator

ISRC Grant: *Preparation of a Library of New Indole-based Molecules and Evaluation of Their PDE5 Inhibitory Activity*

Bryan Gibb, Ph.D., Associate Professor, Biological & Chemical Sciences, Principal Investigator

Michael Hadjiargyrou, Ph.D., Professor, Chairperson, Biological & Chemical Sciences, Co-Principal Investigator

ISRC Grant: *Evaluation of Phage Therapy in Bone and Joint Infections*

Amanda Golden, Ph.D., Associate Professor, English, Principal Investigator

ISRC Grant: *Editing the Poems of Sylvia Plath*

Michael Hadjiargyrou, Ph.D., Professor, Chairperson, Biological & Chemical Sciences, Principal Investigator
ISRC Grant: *The role of Ca⁺⁺ signaling in skeletal development and regeneration*

Xueqing Huang, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Advancing Cooperative In-vehicle Video Generation and Distribution*

Xueting Jiang, Ph.D., Associate Professor, Management & Marketing Studies, Principal Investigator
ISRC Grant: *Summoning Compassion: A Case Study on Spirituality and Responsible Leadership in Sustainability Management*

Ehsan Kamel, Ph.D., Assistant Professor, Energy Management, Principal Investigator
Ahmadreza Baghaie, Ph.D., Assistant Professor, Electrical & Computer Engineering, Co-Principal Investigator
ISRC Grant: *The impact of climate change on buildings energy use in Nassau County, LI in 2099 using urban-scale energy modeling and computer vision*

Pamela Karp, Ed.D., Assistant Professor, Interim Chairperson, Occupational Therapy, Principal Investigator
Shinu Kuriakose, DHSC, Associate Professor, Physician Assistant Studies, Co-Principal Investigator
Christina Finn, Ed.D., Associate Professor, Occupational Therapy, Co-Principal Investigator
Lisa Sparacino, Ph.D., Associate Professor, Chairperson, Nursing, Co-Principal Investigator
ISRC Grant: *Examining the Effects of a Faculty Mental Health Training Program in Higher Education*

Vitaly Katsnelson, Ph.D., Assistant Professor, Mathematics, Principal Investigator
ISRC Grant: *Imaging a planet's interior and density of mass from its natural frequencies of oscillations*

Jacqueline Keighron, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator
ISRC Grant: *Creating a Multifunctional Enzyme-Based Biosensor to Detect the Complex Chemical Communication between Cells*

Nayoung Kim, Ph.D., Assistant Professor, College of Arts & Sciences, Principal Investigator
ISRC Grant: *Intervention for International College Students' Career Exploration*

Colleen Kirk, D.P.S., M.B.A., M.I.M., Associate Professor, Management & Marketing Studies, Principal Investigator. ISRC Grant: *Blood, Sweat and Tears: How Consumers Perceive and Respond to the Legitimacy of Other's Psychological Ownership.*

Shinu Kuriakose, DHSC, Associate Professor, Physician Assistant Studies, Principal Investigator
TLT Grant: *Cognitive Behavioral Therapy App for Substance Abuse/Alcohol for Smart Phones*

Pablo Lorenzo-Eiroa, M. Arch II, Associate Professor, Architecture, Director, MS Programs, Principal Investigator
ISRC Grant: *Architecture of Information*

Sung Park, M.F.A., Assistant Professor, Digital Art & Design, Principal Investigator
Nayoung Kim, Ph.D., Assistant Professor, College of Arts & Sciences, Co-Principal Investigator
TLT Grant: *Innovative Teaching Approach for Counselors-in-training Using the Virtual and Real World Metaverse Case Studies*

Navin Pokala, Ph.D., Associate Professor, Biological & Chemical Sciences, Principal Investigator
ISRC Grant: *High-throughput construction of pairwise neural perturbation C elegans strains*

Maryam Ravan, Ph.D., Assistant Professor, Electrical & Computer Engineering, Principal Investigator

Reza Amineh, Ph.D., Associate Professor, College of Engineering & Computing Sciences

Alexander Lopez, J.D., OT/L, FAOTA, Associate Professor, School of Health Professions

Randy Stout, Ph.D., Associate Professor, College of Osteopathic Medicine

ISRC Grant: *Developing a Wearable Sensor Technology to Investigate the Effect of Virtual-Reality Based Therapy on the Hand Motion and the Related Brain Functioning of Autistic Children*

Alexander Rothstein, M.S., Instructor, Interdisciplinary Health Sciences, Principal Investigator

Joanne Donoghue, M.S., Ph.D., Associate Professor, Director, Clinical Research, College of Osteopathic Medicine

ISRC Grant: *Energy Expenditure as a Result of Wearing a Mask*

Michael Tautonico, D.P.T., N.C.S, Assistant Professor, Physical Therapy, Principal Investigator

TLT Grant: *Safe Patient Handling and Mobility Bus*

Tom Verebes, Ph.D., Professor, Architecture, Principal Investigator

ISRC Grant: *BEYOND the ENVELOPE: Practice-based Research at the Frontiers of Architectural Technology*