

ANNOUNCEMENT OF 2021 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 26 competitive *Institutional Support of Research and Creativity Grants* and *Teaching and Learning with Technology Grants* to the following NYIT faculty members in 2021, in support of their research and creative endeavors:

Eve Armstrong, Ph.D., Assistant Professor, Physics, Principal Investigator
ISRC Grant: *Expanding Development of Data Assimilation in Astrophysics and in Epidemiological Predictions regarding Covid-19*

Lissi Athanasiou-Krikelis, Ph.D., Associate Professor, English, Principal Investigator
ISRC Grant: *Narrative Approaches to the Metafictional Picture book (two-year funding)*

Kiran S. Balagani, Ph.D., Associate Professor, Computer Science, Principal Investigator
Anand Santhanakrishnan, Ph.D., Assistant Professor, Computer Science, Co-Principal Investigator
ISRC Grant: *Evaluating the Security and Resilience of Biometric Traits Extracted from "Swipe Keyboard" Gestures for Active Authentication of Smartphone Users*

Chinmoy Bhattacharjee, Ph.D., Assistant Professor, Physics, Principal Investigator
ISRC Grant: *Frame dragging effects in astrophysical plasmas*

Houwei Cao, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Assessment of Student Engagement in Online Learning using Video-based Emotion and Attention Analysis*

Robert Cody, B.Arch, Associate Professor, Architecture, Principal Investigator
Angela Amoia, M.Arch, Adjunct Associate Professor, Architecture, Co-Principal Investigator
ISRC Grant: *Routledge Book: "Alvar Aalto and the Future of Architecture"*

Minaz Fazal, Ph.D., Assistant Professor, Education, Principal Investigator
Robert Feirsen, Ed.D. Assistant Professor, Education, Co-Principal Investigator
ISRC Grant: *Impact of alternative field and clinical experiences on candidate preparation in teacher education and school leadership programs*

Jole Fiorito, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator
ISRC Grant: *Development of a liquid chromatography/mass spectrometry analytical method for the measurement of cGMP.*

Claude Gagna, Ph.D., Associate Professor, Life Sciences, Principal Investigator
ISRC Grant: *B-DNA, Z-DNA and G4-Quadruplex DNA Microarray Prototypes as Therapeutic Structure-Based DNA-Targeting Strategy Tools: Simultaneous Quantification of Multiple Fluorescent Signals from Immunochemical and Chemical Probes [i.e., Formation of Biotechnology Company: STTR Grant]*

Bryan Gibb, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator
Jole Fiorito, Ph.D., Assistant Professor, Biological & Chemical Sciences, Co-Principal Investigator
Patricia Keen, Ph.D., Assistant Professor, Energy Management, Co-Principal Investigator
David Nadler, Ph.D., Assistant Professor, Environmental Technology & Sustainability, Co-Principal Investigator.
Leonidas Salichos, Ph.D., Assistant Professor, Biological & Chemical Sciences, Co-Principal Investigator
ISRC Grant: *Development of Surveillance System for Monitoring SARS-CoV-2, Antibiotic Resistance, and Microbial Threats to Human Health in Wastewater*

Jonathan Goldman, Ph.D., Associate Professor, English, Principal Investigator
ISRC Grant: *New York 1920s: 100 Years Ago Today-Scholarly Website and Two Articles (two-year funding)*

Xueqing Huang, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Reliable Smart Grid Integrated Electric Vehicle-enhanced Mobile Edge Computing*

Melissa Huey, Ph.D., Assistant Professor, Behavioral Sciences, Principal Investigator
TLT Grant: *Creating the Optimal Remote Learning Environment*

Azhar Ilyas, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant: *Paper-based Microchip Integrated with Smartphone for CD4 + T Cell Counting at Point of Care*

Hyun-Tae Jung, Ph.D., Associate Professor, Architecture, Principal Investigator
ISRC Grant: *(Book project) "Skidmore, Owings & Merrill: The Architecture of Organization from the Great Depression to the Cold War"*

Ehsan Kamel, Ph.D., Assistant Professor, Energy Management, Principal Investigator
ISRC Grant: *A digital twin platform for NYIT LI campus with real-time and BIM-based energy monitoring and simulation capabilities*

Pamela Karp, Ed.D., Assistant Professor, Occupational Therapy, Principal Investigator
Robert G. Gallagher, M.B.A., D.C., Associate Professor, Occupational Therapy, Co-Principal Investigator
ISRC Grant: *Emotional Intelligence Development in 3rd Year Occupational Therapy Students Following Fieldwork Experiences*

Vitaly Katsnelson, Ph.D., Assistant Professor, Mathematics, Principal Investigator
ISRC Grant: *Reconstructing Earth's density of mass in the presence of interfaces*

Fang Li, Ph.D., Associate Professor, Mechanical Engineering, Principal Investigator
ISRC Grant: *Self-powered wearable sensors for respiration rate and cough sensing*

John Misak, D.A., Assistant Professor, English. Principal Investigator
TLT Grant: *Widening the Domain: STEM Principles in Composition for Improved Learning & Skills Transfer (two year funding)*

Sung Kevin Park, M.F.A., Assistant Professor, Digital Art & Design, Principal Investigator
Nicole Calma-Roddin, Ph.D., Assistant Professor, Behavioral Sciences, Co-Principal Investigator
Jacqueline Keighron, Ph.D., Assistant Professor, Biological & Chemical Sciences, Co-Principal Investigator
TLT Grant: *Learning in 3D: The VR Experience in the Classroom*

Navin Pokala, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator
ISRC Grant: *Development of C elegans models of schizophrenia*

Maryam Ravan, Ph.D., Assistant Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant: *Advanced Signal Processing Methods to discriminate major and bipolar depressive disorders*

Pejman Sanaei, Ph.D., Assistant Professor, Mathematics, Principal Investigator
ISRC Grant: *Mathematical Models and Simulations of Reconfigurable Flow Networks: Erosion, Sedimentation, Filtration and Growth (ESFG) (two year funding)*

Ling Wan-Albert, OTD, Assistant Professor, Occupational Therapy, Principal Investigator
ISRC Grant: *Investigate the effectiveness of a treatment protocol for Parkinson's fatigue using a novel intervention based on the cognitive behavioral approach.*

Melda N. Yildiz, Ed.D. Associate Professor, Instructional Technology, Principal Investigator
Wenjia Li, Ph.D., Associate Professor, College of Engineering & Computing Sciences, Co-Principal Investigator
Jessica Varghese, Ph.D., RN, Assistant Professor, Nursing, Co-Principal Investigator
TLT Grant: *Rethinking Assessment in the Pandemic Era*