

ANNOUNCEMENT OF 2023 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 23 competitive *Institutional Support of Research and Creativity Grants* and *Teaching and Learning with Technology Grants* to the following NYIT faculty members in 2023, in support of their research and creative endeavors:

Reza Khalaj Amineh, Ph.D., Associate Professor, Electrical & Computer Engineering, Principal Investigator
Maryam Ravan, Ph.D., Assistant Professor, Electrical & Computer Engineering, Co-Principal Investigator
ISRC Grant: *Fast and Robust Through-The-Wall Imaging of Near-Field Objects*

Eve Armstrong, Ph.D., Assistant Professor, Physics, Principal Investigator
ISRC Grant: *An Inference Methodology to Illuminate Nonlinear Neutrino Flavor Transformation for Nuclear Astrophysics*

N. Sertac Artan, Ph.D., Associate Professor, Electrical and Computer Engineering, Principal Investigator
ISRC Grant: *Bootstrapping Semiconductor Research and Education at NYIT via a Machine Learning Accelerator Chip*

Kiran Balagani, Ph.D., Associate Professor, Computer Science, Principal Investigator
Paolo Gasti, Ph.D., Associate Professor, College of Engineering & Computing Sciences
ISRC Grant: *CognitiveEcho: Strengthening Smartphone User Authentication with EEG Fingerprints*

Chinmoy Bhattacharjee, Ph.D., Assistant Professor, Physics, Principal Investigator
ISRC Grant: *Charged Particle Motion in Double Curl Beltrami Field*

Houwei Cao, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Robust & Privacy-Preserving Emotion Recognition Through Federated Learning*

Sophia Domokos, Ph.D., Assistant Professor, Physics
ISRC Grant: *A New Approach to Matter in Holographic Duality*

Brian Gibb, Ph.D., Associate Professor, Biological & Chemical Sciences, Principal Investigator
Michael Hadjiargyrou, Ph.D., Professor, Chairperson, Director DO/Ph.D. Program College of Arts & Sciences
ISRC Grant: *Evaluation of Bacteriophages in Antibiotic-resistant Bone Infections*

Eric T. Greenberg, PT, DPT, Associate Professor, Physical Therapy, Principal Investigator
Lori Hochman, PT, Ph.D., Assistant Professor, Director of Clinical Education and DPT at NYIT, Co-Principal Investigator
TLT Grant: *From the Classroom to Clinic: Integrating a distance Mentorship Program to Develop the Essential Skills of Second-year DPT Students During their Second Clinical Experience*

Xueqing Huang, Ph.D., Assistant Professor, Computer Science, Principal Investigator
ISRC Grant: *Greening the Internet of Cooperative Autonomous Electric Vehicles*

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

Amerigo Eric Rossi, EdD., Associate Professor, Interdisciplinary Health Sciences, Co-Principal Investigator

ISRC Grant: *Do School-Based Physical Activity Programs Improve Health and Well-being of Urban Middle-school Students?*

Ehsan Kamel, Ph.D., Assistant Professor, Energy Management, Principal Investigator

ISRC Grant: *Thermal and Building Energy Simulation of 3D-Printed Buildings in Different Climate Zones*

Vitaly Katsnelson, Ph.D., Assistant Professor, Math, Principal Investigator

ISRC Grant: *Enhancing Seismic Image Resolution in the Presence of a Global Gravitational Field Using High-Frequency Waves*

Jacqueline Keighron, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator

ISRC Grant: *Optimizing a Multifunctional Enzyme-Based Biosensor for the Detection of the Complex Chemical Communication Between Neurons*

Colleen Kirk, D.P.S., M.B.A., M.I.M., Associate Professor, Management & Marketing Studies Principal Investigator

ISRC Grant: *Is It Mine or Yours? Reputations, Narcissism, and Tears in Consumer Behavior*

Athina Papadopoulou, Ph.D., Assistant Professor, Architecture, Principal Investigator

Alexander Lopez, J.D., OT/L, FAOTA, Associate Professor, Occupational Therapy, Co-Principal Investigator ISRC

Grant: *Therapeutic Affective Garments (TAG): Emotion Regulation via Haptic Feedback for Individuals with Autism Spectrum Disorder (ASD)*

Navin Pokala, Ph.D., Associate Professor, Biological & Chemical Sciences, Principal Investigator

ISRC Grant: *Improved Histamine Receptors for C Elegans Chemical-genetics*

Amerigo Eric Rossi, EdD, Associate Professor, Interdisciplinary Health Sciences, Principal Investigator

Lillian Butungi Niwagaba, MBA, Ph.D., Assistant Professor, Director Global Health, Center of Global Health, Co-Principal Investigator

ISRC Grant: *Program Evaluation and Physical Activity Intervention for a Diabetes Care Clinic in the Dominican Republic Exploration*

Leonidas Salichos, Ph.D., Assistant Professor, Biological & Chemical Sciences, Principal Investigator

ISRC Grant: *Studying the Spread of Infectious Diseases using Genetic, Epidemiological, and Demographic Data for Targeted Mitigation Strategies in Public Health*

Clarke Snell, M.Arch., Associate Professor, Architecture, Principal Investigator

Matthias Altwicker, B. Arch, Associate Professor, School of Architecture & Design, Co-Principal Investigator

Robert Cody, B. Arch, Teaching Associate Professor, School of Architecture & Design, Co-Principal Investigator

TLT Grant: *Integrating Performance Simulation Software into the Architectural Workflow: A New Required Course for the Bachelor of Architecture Curriculum*

Michael Tautonico, D.P.T., N.C.S Assistant Professor, Physical Therapy, Principal Investigator
William Werner, PT, EdD, Associate Professor, Physical Therapy, Co-Principal Investigator
Rosemary Gallagher, PT, DPT, Ph.D., GCS, Associate Professor, Physical Therapy, Co-Principal Investigator
Daniela Farro, DPT, Adjunct Professor, Physical Therapy, Co-Principal Investigator
Shaina Flanzraich, PT, DPT, NCS, CSRS, Assistant Professor, Physical Therapy, Co-Principal Investigator
ISRC Grant: *A Novel Balance Program to Improve Balance in People with Parkinson's Disease: A Randomized Control Trial*

Baole Wen, Ph.D., Assistant Professor, Mathematics, Principal Investigator
ISRC Grant: *Asymptotic Transport in Strongly Nonlinear Rayleigh–Bénard Convection*

Wei Zeng, Ph.D., Assistant Professor, Mechanical Engineering, Principal Investigator
ISRC Grant: *Biomechanical Evaluation of Fixation Implants for Proximal Femur Fractures*