

ADMINISTRATION

Russell Hotzler, President

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Maureen Archer-Festa, Dean, School of Professional Studies
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PROFESSIONAL DEVELOPMENT ADVISORY COUNCIL

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Karen Bonsignore, Candido Cabo, Soyeon Cho, Gwen Cohen-Brown, Susan Davide, Lynda Dias,
Boris Gelman, Evgenia Giannopoulou, Darya Krym, Zory Marantz, Nazanin Munroe,
Susan Phillip, Marcia Powell, Ashwin Satyanarayana, Shelley Smith, and Junior Tidal

PREVIOUS SCHOLARS ON CAMPUS

Carmen Valle	Spring 2001	George Guida	Spring 2013
Adrianne Wortzel	Spring 2002	Monique Ferrell	Spring 2014
Roman Kezerashvili	Spring 2003	Benjamin Shepard	Spring 2015
Maria Estela Rojas	Spring 2004	Reginald Blake	Spring 2016
Djafar Mynbaev	Spring 2006	Janet Liou-Mark	Spring 2017
Annette Saddik	Spring 2007	Reneta Lansiquot	Spring 2018
Gregory Matloff	Spring 2008	Maura Smale	Spring 2019
Hugh McDonald	Spring 2009	Hamidreza Norouzi	Spring 2020
Hans Schoutens	Spring 2010	Diana Samaroo	Spring 2022
Jane Mushabac	Spring 2011	Giovanni Ossola	Spring 2023
XiangDong Li	Spring 2012	Suzanne M. Miller	Spring 2024

<https://www.citytech.cuny.edu/about-us/scholars.aspx>

NEW YORK CITY COLLEGE OF TECHNOLOGY
285 JAY STREET, BROOKLYN, NY, 11201

SCHOLARSHIP ON CAMPUS

Monday, May 5th, 2025

Reception at 4PM
Academic Building Lobby

Award Ceremony at 5PM
Academic Building Room A105

Opening Remarks

Russell Hotzler, President
Pamela Brown, Provost

Introduction of Scholar

Suzanne Maynard Miller, MFA

A Journey through Particles

Andrea Ferroglia,
Scholar on Campus 2025–2026

Presentation of Award

Russell Hotzler, President

Presentation of Certificates

Pamela Brown, Provost
Scholar on Campus Finalists 2025
2024 Poster Session Student Winners
Faculty Poster Session Recognitions
New Grant Awards (2024–2025)



Andrea Ferroglia,
Professor, Physics

Throughout my career as a physicist, I’ve focused on Elementary Particle Physics—the study of matter’s fundamental building blocks and their interactions. My calculations lead to predictions for particle collisions at high-energy accelerators. For the past fifteen years, I’ve primarily studied processes at the Large Hadron Collider (LHC) at CERN in Geneva, where the Higgs Boson was discovered in 2012.

My recent research concentrates on top quarks, the heaviest particles in the Standard Model of particle physics. Due to its large mass, the top quark frequently emits Higgs bosons, making it an ideal subject for studying the Higgs field and its role in the Standard Model’s electroweak symmetry-breaking. I’ve also studied processes in Quantum Electrodynamics, bottom quark decays, and technical aspects of Quantum Chromodynamics.

Throughout my career, my collaborators and I have published 62 peer-reviewed papers, a graduate-level textbook, and various conference proceedings. Thirty-three of these papers and the textbook were published after joining City Tech in 2010, where my work has been supported by two NSF grants as principal investigator and several PSC-CUNY awards.

After earning my PhD from New York University in 2002, I held postdoctoral positions at universities in Freiburg (Germany), Zurich (Switzerland), and Mainz (Germany) before joining City Tech. I’ve presented my research at numerous institutions across the United States, Germany, Switzerland, United Kingdom, France, Italy, Spain, Portugal, Poland, and the United Arab Emirates.

My research helps advance our understanding of the universe’s fundamental particles and forces, contributing to the quest to unravel the basic structure of matter.

SCHOLAR ON CAMPUS FINALISTS 2025

Gaffar Gailani Professor Mechanical Engineering	Subhendra Sarkar Professor Radiologic Technology & Medical Imaging	Denise Sutton Associate Professor Business History
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Luis Luna mentored by Prof. Zayed Saleh, Valve Train Design and Testing, Honors Scholars
Monisha Sooklall mentored by Prof. Tamrah Cunningham, Amazed: Teaching architectural design styles with a board game, Honors Scholars
Sabahat Moughal mentored by Prof. Sarah Price, Cultural Barriers and Communication: South Asian Experiences in Health Care Settings, ESP
Thomas Alarcon Ali, Zohaib Khan, Ariel Marroquin, Samuel Martinez, Fabiha Samiha, and Emily Yong mentored by Prof. Ozlem Yasar, Utilizing PEGDA for Sustainable Seed Growth: Microgreens in Space, ESP and Honors Scholars
Anjum Ahmmed, Nick Antoine, Christopher Gabriel Lopez, Jennifer Garcia, and Marti Tapia mentored by Prof. Alexander Aptekar, Optimizing Indoor Environment Quality, ESP

Daniel Colon mentored by Prof. Jeremy Seto, Hydrogeological Properties of Green Roof Media and Granular Soils, ESP
Muhammad Hassan Butt and Alexis Torres mentored by Prof. Samaneh Gholitabar, Climate Change Impacts on Bridge Scour Risk in New York State, C2SMARTER and ESP
Majida Naz mentored by Prof. Annie Ngana Mundeke, Profit Before Patients: A Comprehensive Study on the Influence of Profit-Driven Motives in the U.S. Healthcare System, ESP
Kaung Myat Thu mentored by Prof. Raja Ahmed, Securing Kubernetes Services Exposed to Public Networks from Cyber Attacks, ESP
Nick Antoine, Fareda Elsherif, Brailyn Ventura, Mohamed Hassan, and Michael Ray Malonjao mentored by Prof. Alexander Aptekar, Straw Bale Net Zero: Sustainable Building Solutions, ESP
Kevin Valencia, Cheriya Wilmot, Kaylynn Daoud, and Sofia Bilbao mentored by Prof. Naomi Langer-Voss, ARCScholars Spring 2024: Architectural Solutions To A Better Quality Of Life For The NYCHA Queensbridge Houses Community, ESP
Manuel Andrago, Rushelle Diata, Carlos Lopez III, Brandon Oliva-Catucci, and Benny Mak mentored by Prof. Abdou Bah, Effects of Flooding on Transportation Infrastructure, PSYS 10021D
Najwad Kased mentored by Prof. Alias Aljalis, Stealth Velocity, Honors Scholars Student Panel Award

BEST POSTER PRESENTATION AWARDEES

Ahmed Hassebo with Mohamed Tealab. From a Traditional City to a Smart City: The Measurement of Cities’ Readiness for Transition, Egypt as a Case Study.
Vitaliy Dorogan with Keven Cruz, Mikheil Vardoshvili, Pedro Sotomayor, S. Rivera and T. Gonzalez. Fabrication and Characterization of Monolayered Transition-Metal Dichalcogenides.
Subhendra Sarkar with Evans Lespinasse, Eric Lobel, Somdat Kissoon and Daler Djuraev. Manipulating Harmful Compton Radiation in Composite Filters to Generate Variable X-ray Flux for Imaging Soft Biomaterials: Let Devil Do Some Good.

ONE-MINUTE FACULTY POSTER PRESENTATIONS

Dan H. Chen, Abbi Raper and Laura Andreescu, Impact of Dental Genetic Therapies in Dentistry
Margaret Rafferty, Paola Guzman, Elizabeth Santos, Dmytro Stapinskyy and Shuhua Kuang, Wildfires: A Threat to Public Health
Vishwas Joshi, Iodineprotein Nanoparticles for Cancer Imaging and Therapy
Anita Giraldo, Democracy Spoken Here – Progress of a Typographic Art Print Series.
Ahmed Hassebo and Mohamed Tealab, From a Traditional City to a Smart City: The Measurement of Cities’ Readiness for Transition, Egypt as a Case Study
Aaron F. Jones, Pavel Karpov, Henry Mejia F., Mir F. Mithila and Aparicio Carranza, Navigating the Digital Sky
Samaneh Gholitabar and Alexis Torres, Climate Change Impacts on Bridge Scour Risk in New York State
Mary Tedeschi, Sergio Belich, P. Ricaurte Quijano, C. Danoff, J. Corneli and Sridevi Ayloo, Peeragogy and Teaching.
Daler Djuraev, Adriana Galvan, Peter Spellane and Anna Feitzinger, Microbial Diversity of Newtown Creek
Patricia Medina, Justin Mejia and Bledar Ndoni, Comprehensive Crime Analysis: Integrating Classification, Regression and Spatial-Temporal Insights
Vasily Znamenskiy, Properties of Water in Extreme Space Environments: A Computer Study
Vitaliy Dorogan, Keven Cruz, Mikheil Vardoshvili, Pedro Sotomayor, S. Rivera and T. Gonzalez, Fabrication and Characterization of Monolayered Transition-Metal Dichalcogenides
Subhendra Sarkar, Evans Lespinasse, Eric Lobel, Somdat Kissoon and Daler Djuraev, Manipulating Harmful Compton Radiation in Composite Filters to Generate Variable X-ray Flux for Imaging Soft Biomaterials: Let Devil Do Some Good

Akm Rahman, Assessment Of Urban Heat Island Risks, National Aeronautics and Space Administration (NASA) (\$25,000.00)
Viviana Vladutescu, Lufeng Leng, and Giovanni Ossola, Science and Engineering Student Apprenticeship Program in Accelerator R&D, Department of Energy (\$700,000.00)
Reginald Blake and Hamidreza Norouzi, Assessment of Urban Heat Island Risks, Impacts, and Resiliency Solutions, National Aeronautics and Space Administration (NASA) (\$50,000.00)
Huseyin Yunce, COVID-19 & Optimal, Oak Ridge Institute for Science & Education/U.S. Department of Homeland Security (\$100,000.00)
Xiaohai Li and Ching-Song Wei, Equitable Pathways to Artificial Intelligence, BMCC/National Science Foundation (\$49,461.00)
Viviana Acquaviva, Climate Change Research Support: From Galaxy Evolution to Climate Models: A data driven journey, Simons Foundation (\$18,594.00)
Viviana Acquaviva, Fellowship: From Galaxy Evolution to Climate Models, Simons Foundation (\$279,540.00)
David Sanchez-Jimenez and Noemi Rodriguez, Spanish Medical Interpretation and Healthcare Communication Curriculum Modifications for Future Language-Concordant Professionals, Modern Language Association (\$10,000.00)
David Sanchez-Jimenez and Noemi Rodriguez, Spanish Medical Interpretation, Modern Language Association (\$100,000.00)
Charlotte Welker, Student Observing Support (SOS), National Radio Astronomy Observatory (NRAO) (\$39,975.00)
Soyeon Cho, Enhancing Equity in SSA Services: Addressing the Barriers Faced by Asian American Older Adults, New York Research Data Center, (\$99,897.00)