

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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Lubie Alatrister, Daniel Alter, Esteban Beita Solano, Monica Berger, Mary Ann Biehl,
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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Anjum Ahmed, Nick Antoine, Christopher Gabriel Lopez, Jennifer Garcia, and Marti Tapia mentored by Prof. Alexander Aptekar, Optimizing Indoor Environment Quality, ESP
Thomas Alarcon Ali, Zohaib Khan, Ariel Marroquin, Samuel Martinez, Fabiha Samiha, and 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
Emily Yong mentored by Prof. Ozlem Yasar, Utilizing PEGDA for Sustainable Seed Growth: Microgreens in Space, ESP and Honors Scholars

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
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
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
Najwad Kased mentored by Prof. Alias Aljalis, Stealth Velocity, Honors Scholars Student Panel Award
Kaung Myat Thu mentored by Prof. Raja Ahmed, Securing Kubernetes Services Exposed to Public Networks from Cyber Attacks, 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
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

BEST POSTER PRESENTATION AWARDEES

Vitaliy Dorogan with Keven Cruz, Mikheil Vardoshvili, Pedro Sotomayor, Stefanie Rivera and Tomas Gonzalez. Fabrication and Characterization of Monolayered Transition-Metal Dichalcogenides.
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.
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
Vitaliy Dorogan, Keven Cruz, Mikheil Vardoshvili, Pedro Sotomayor, Stefanie Rivera and Tomas Gonzalez, Fabrication and Characterization of Monolayered Transition-Metal Dichalcogenides
Daler Djuraev, Adriana Galvan, Peter Spellane and Anna Feitzinger, Microbial Diversity of Newtown Creek
Samaneh Gholitabar and Alexis Torres, Climate Change Impacts on Bridge Scour Risk in New York State
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
Vishwas Joshi, Iodineprotein Nanoparticles for Cancer Imaging and Therapy
Patricia Medina, Justin Mejia and Bledar Ndoni, Comprehensive Crime Analysis: Integrating Classification, Regression and Spatial-Temporal Insights
Margaret Rafferty, Paola Guzman, Elizabeth Santos, Dmytro Stapinskyy and Shuhua Kuang, Wildfires: A Threat to Public Health
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
Mary Tedeschi, Sergio Belich, P. Ricaurte Quijano, C. Danoff, J. Corneli and Sridevi Ayloo, Peeragogy and Teaching.
Vasily Znamenskiy, Properties of Water in Extreme Space Environments: A Computer Study

Viviana Acquaviva, Climate Change Research Support: From Galaxy Evolution to Climate Models: A data driven journey, Simons Foundation (\$18,594)
Soyeon Cho, Collaborative: Enhancing Equity in SSA Services: Addressing the Barriers Faced by Asian American Older Adults in Chinese, Korean and Indian American Communities, Baruch/New York Research Data Center (\$94,706)
Urmi Duttagupta, DHS STEM Peer Grant, Northeastern University (\$10,000)
Sitaji Gurung, Integrating Real world research into HSCI 4201: Enhancing Student Learning Through Applied Medical Metrics , CUNY- Research in the Classroom (\$10,000)
German Kolmakov, Prototyping Quantum Powered AI building platform - Supplemental Award, National Science Foundation (\$49,588)
German Kolmakov, High School & Undergraduate internships summer program - Supplement, Department of Defense/U.S. Army (\$39,572)
German Kolmakov, Advancing Photonics Education in a Classroom: Integrating Metasurface Research from ASRC into undergraduate physics curriculum at City Tech, CUNY- Research in the Classroom (\$10,000)
David Sanchez-Jimenez, Diana Samaroo, Melanie Villatoro, Enriching the Humanities Curriculum to Embrace Cultural Relevance, National Endowment for the Humanities (\$150,000)
Eusiuk Sung, Collaborative: Computer Science Through Engineering Design in New York (CSed-NY), Hofstra University/NSF (\$109,304)
Viviana Vladutescu, Li Geng, Lufeng Leng, Giovanni Ossola, Science and Engineering Student Apprenticeship Program in Accelerator R&D Department of Energy (\$230,000)
Ching-Song Wei (BMCC), Xiaohai Li, Equitable Pathways to Artificial Intelligence, BMCC/National Science Foundation (\$49,461)
Ozlem Yasar, Akm Rahman, Utilizing PEGDA for Sustainable Seed Growth: Microgreens in Space, National Aeronautics and Space Administration (NASA) (\$49,911)