



# Undergraduate Research Faculty Mentors Brochure

*A resource for academic and professional development at NYC College of Technology*

## **Undergraduate Research Committee Members:**

Hamid Norouzi (Chair), Viviana Acquaviva, Ralph Alcendor, Nadia Benakli, Mariya Bessonov, Monica Berger, Susan Davide, Aida Egues, Pa Her, Heejun Kim, Xiaohai Li, Zory Marantz, Masa Nakamura, Alberto Martinez, Akm Rahman, Katherine Poirier, Jonas Reitz, Jody Rosen, Robert Walljasper, Angran Xiao, Mai Zahran, and Lin Zhou

Prepared by: Prof. Diana Samaroo  
Currently Maintained by: Prof. Robert Walljasper

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# *School of Arts & Sciences*

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*Baccalaureate degrees within this school include:*

**Applied Chemistry**  
**Applied Computational Physics**  
**Applied Mathematics Financial**  
**Applied Mathematics Information Science**  
**Applied Mathematics Science**  
**Biomedical Informatics**  
**Data Analytics in Economics**  
**Health Communication**  
**Mathematics Education**  
**Professional & Technical Writing**

## SCHOOL OF ARTS AND SCIENCES

### AFRICAN AMERICAN STUDIES

Faculty Member	Research Interest	Email	Office
Emilie C. Boone	Art history, African American art history, history of photography, art and visual Culture of the African Diaspora, Caribbean art, African Canadian art history	ecboone@citytech.cuny.edu	A-634

### BIOLOGICAL SCIENCES

Faculty Member	Research Interest	Email	Office
Ralph Alcendor	Cell survival and longevity factors, stress resistant mechanisms and cell signaling molecules.	ralcendor@citytech.cuny.edu	A-302
Ralph Alcendor	Cell survival and longevity factors, stress resistant mechanisms and cell signaling molecules.	ralcendor@citytech.cuny.edu	A-302
Christopher Blair	Molecular Systematics, Phylogenomics and Historical Biogeography, Landscape Genomics, eDNA Metabarcoding	cblair@citytech.cuny.edu	A-501
Eugenia Giannopoulou	Next-generation Sequencing, Computational Genomics, Epigenomics Data Analysis, ChIP-seq, RNA-seq, DNA methylation. Cancer genomics, Data analysis of epigenomics mechanisms in rheumatoid arthritis (RA), systemic lupus erythematosus (SLE), and other autoimmune and inflammatory diseases. Programming/Web interfaces for genomics/proteomics, Information Visualization in Bioinformatics.	egiannopoulou@citytech.cuny.edu	A-302
Laina Karthikeyan	Molecular basis of neurodegenerative diseases like Dystonia, and Parkinson's	lkarthikeyan@citytech.cuny.edu	A-301
Jeremy Seto	Neuropsychimmunology - The interface of immunology, infection and inflammation with psychiatric disorders and neurodevelopment Urban Ecology - The unique interaction of human populations in an urban space on the environment and ecosystems	jseto@citytech.cuny.edu	A-501
Armando D. Solis	Use of bioinformatics tools and computational approaches to discover how protein folding information is encoded in amino acid sequences, and how interaction information is encoded in protein-DNA interfaces.	asolis@citytech.cuny.edu	A-502
Tatiana Voza	Research interest includes 1) testing drugs on malaria parasites in vivo, 2) the imaging of parasites in the skin and 3) evaluating the efficacy of different route of injection in the context of immunizations. I am also setting up an artificial pond for teaching purposes and many studies could be related to this project.	tvoza@citytech.cuny.edu	A-502
Mai Zahran	Research focuses on exploring the structure and dynamics of biological systems and linking them to function. Rationally design new biological molecules, such as drugs using computational methods such as molecular dynamics tools, docking, and homology modeling approaches.	mzahran@citytech.cuny.edu	A-502
Andleeb Zameer	Nervous system and immune system interactions. More specifically I am interested in how immune system can alter the functioning of nervous system in autoimmune disorders like Multiple Sclerosis and similar neurodegenerative disorders.	azameer@citytech.cuny.edu	A-301

## CHEMISTRY

Faculty Member	Research Interest	Email	Office
L. Jay Deiner	Electrochemistry, Spectroscopy, Reactions related to fuel cell catalysis and environmental remediation	ldeiner@citytech.cuny.edu	A-518
Ivana Jovanovic	Renewable energy and nanomaterials for solar harvesting; Polyoxometalates and porphyrinoid molecules as photocatalysts for oxidation of organic compounds and for metal ion reduction.	ijovanovic@citytech.cuny.edu	A-516
Alberto Martinez	Synthesis and evaluation of multi-target compounds as potential chemotherapeutic agents for Alzheimer's disease.	amartinez@citytech.cuny.edu	A-516
Diana Samaroo	1. Characterization and investigation of porphyrin-type molecule with proteins and DNA for therapeutic applications. 2. Spin-coating, photolithography, nanomaterials.	dsamaroo@citytech.cuny.edu	A-516
Peter Spellane	Preparation and analysis of light-sensitive transition metal compounds; investigations of the environmental consequences of chemicals manufacturing and petroleum refining in Brooklyn during the 19th and 20th centuries.	pspellane@citytech.cuny.edu	A-518
Suresh Tewani	Analytical chemistry	stewani@citytech.cuny.edu	A-516

## ENGLISH

Faculty Member	Research Interest	Email	Office
Lubie G. Alatraste	second language writing, classroom methodologies, academic discourse	lalatraste@citytech.cuny.edu	N-503
Jill Belli	My interdisciplinary research interests include utopian studies / science fiction; positive psychology / happiness studies; writing studies / composition and rhetoric / professional and technical writing; digital humanities; education / pedagogy; cultural studies. I also help direct three digital projects, which all involve work in coding, data entry, network analysis, data visualization, usability / user experience, and design: 1) City Tech's OpenLab (openlab.citytech.cuny.edu); 2) the Writing Studies Tree (writingstudiestree.org); 3) the digital presence of the Society for Utopian Studies (utopian-studies.org).	jbelli@citytech.cuny.edu	N-512
Anna Do	As a linguist I mostly work with language. My research interests include first and second language acquisition, linguistic analysis of any language, any language-related topics, ESL, discourse analysis, and teacher education.	ado@citytech.cuny.edu	N-503
Kate Falvey	Undergraduates to assist in producing the 2 Bridges Review, City Tech's first peer-reviewed literary arts magazine. Production will include: monitoring and helping to review submissions in all categories (art, poetry, fiction, nonfiction), helping to keep our website current, assisting with promotion and distribution of the magazine.	kfalvey@citytech.cuny.edu	N-527

Camille Goodison	Caribbean and Latin American Studies; Ethnic and Immigrant literature; Africana Studies; Popular Music and Culture; Oral Histories; Narrative Nonfiction (including Biography and Memoir; Travel and Nature Writing)	cgoodison@citytech.cuny.edu	N-520
George Guida	Creative Writing, Literature, Ethnic Studies, Film and Popular Culture	gguida@citytech.cuny.edu	N-525
Caroline Hellman	19 <sup>th</sup> -21 <sup>st</sup> century American Literature; Contemporary Ethnic American Writers; Urban Studies; Space and Place; Women Writers	chellman@citytech.cuny.edu	N-503
Joseph Jeyaraj	Writing and Visual Communication (STEM and other genres of writing visual communication involving technical and professional communication)	JJeyaraj@citytech.cuny.edu	P-410
Robert Leston	Writing in electronic environments, particularly in the medium of video. Research into the study of the Film Essay; television storytelling and their applications to professional scholarship as well as undergraduate essays and journalism. Human, animal, technological relationships.	rleston@citytech.cuny.edu	N-512
Jody R. Rosen	20 <sup>th</sup> and 21 <sup>st</sup> Century Literature, Narrative and Storytelling, Gender Studies, Writing in Digital Media, Brooklyn in the Archives (using the Brooklyn Historical Society)	jrosen@citytech.cuny.edu	N-520

## HUMANITIES

Faculty Member	Research Interest	Email	Office
Sandra Cheng	Intersections of science, aesthetics, and art; production and reception of early modern caricature and comic art; history of photography.	scheng@citytech.cuny.edu	L-630
David Lee	Multimedia health communication; Public health campaigns; Interactive health technologies (apps, wearables, etc.); Science museum exhibitions about health; Linguistic, cultural and economic determinants of health	dlee@citytech.cuny.edu	L-630
David Sánchez Jiménez	Rhetorical functions of citations in academic writing; rhetorical organization of the academic discourse; bilingualism and literacy for Spanish as a heritage language; interculturalism in the rhetoric and sociopragmatic texts written in the second language; corpus linguistics applied to discursive features of genre analysis; cognitive process involved in writing; influence of affective factors in the learning of Spanish as a foreign language; and uses of learning strategies in the design of didactic materials.	dsanchezjimenez@citytech.cuny.edu	L-630
Christopher Swift	Contemporary and historical theatre in New York City; theater architecture and material culture; technology and performance; avant-garde theatre; spectacle, music, dance, and installation art in public spaces; liturgical theatre and festival; devotional practices.	cswift@citytech.cuny.edu	L-630
Shauna Vey	Theatre history, especially performance spaces, stage direction, labor, and economic issues. Children's Studies. Professional juvenile performers within the context of shifting social constructions of childhood. Specialist in 19 <sup>th</sup> - and 20 <sup>th</sup> -century American and African-American theatre.	svey@citytech.cuny.edu	L-630

## LIBRARY

Faculty Member	Research Interest	Email	Office
Monica Berger	Scholarly publishing and communications including open access, peer review, predatory publishing, and equity for scholars in the Global South.	mberger@citytech.cuny.edu	L543A
Junior Tidal	Web usability, user experience, web metrics, and mobile web development.	jtidal@citytech.cuny.edu	L-434

## MATHEMATICS

Faculty Member	Research Interest	Email	Office
Nadia Benakli	Geometric group theory. Graph theory. Linear algebra	nbenakli@citytech.cuny.edu	N-827
Mariya Bessonov	Probability and applications to population dynamics, applications to cryptography	mbessonov@citytech.cuny.edu	N-724
Urmi Ghosh-Dastidar	Infectious Disease Modeling, Biodiversity, Mathematical Biology, Nonlinear Optimization for parameter estimation	ughosh-dastidar@citytech.cuny.edu	N-725
Ezra Halleck	Discrete mathematics (including algebraic combinatorics), probability and statistics, simulation and applications in biology and social sciences	ehalleck@citytech.cuny.edu	N-726
Jeihao Huang	A physical and statistical study of 36 years of weather history in NYC used to examine the impacts of climate change.	jhuang@citytech.cuny.edu	N-825
Nadia S. Kennedy	Mathematics education and Teacher Education	nkennedy@citytech.cuny.edu	N-602B
George Klimi	Applied Math and Physics in the Military Sciences	gklimi@citytech.cuny.edu	N-825
Boyan Kostadinov	Applied Fourier calculus with applications to Medical Imaging, Signal and Image Processing, and Monte Carlo simulations with applications to finance, biology and physics.	bkostadinov@citytech.cuny.edu	N-602B
Nan Li	Projects in Data Mining and Numerical Analysis. The main goal of data mining is to extract unknown properties from collections of large amount of data. Some of the methods are closely related to Machine Learning.	nli@citytech.cuny.edu	N-724
Ariane Masuda	Number theory and discrete mathematics	amasuda@citytech.cuny.edu	N-602B
Hans Schoutens	Algebra - geometry.	hschoutens@citytech.cuny.edu	N-826
Satyanand Singh	Statistical Analysis and simulations. Explorations in additive Number Theory, Quantum Integers and such. Linear and Abstract Algebra and their applications.	ssingh@citytech.cuny.edu	N-724
Jonas Reitz	Mathematical logic. Logical puzzles and games. Set theory and foundations of mathematics. Computation and complexity. Calculus projects: patterns in integration and differentiation.	jreitz@citytech.cuny.edu	N-707
Huseyin Yuce	Ordinary and Partial Differential Equations (applications involving structural mechanics, vibration and control theory), Mathematical Physics, and Perturbation Theory.	hyuce@citytech.cuny.edu	N-826
Lin Zhou	Non-Newtonian Fluids, asymptotic method	lzhou@citytech.cuny.edu	N-602B

## PHYSICS

Faculty Member	Research Interest	Email	Office
Viviana Acquaviva	Analysis of the properties of distant galaxies; big data, machine learning and data mining for astronomical data sets.	vacquaviva@citytech.cuny.edu	N-828
Oleg Berman	Superconductivity, super-fluidity, spontaneous coherence.	oberman@citytech.cuny.edu	N-810
Reginald Blake (Associate Provost)	Satellite Remote Sensing of the Environment, Hydro-climatology, and Tropical Meteorology: Hurricanes	rblake@citytech.cuny.edu	N-320
Andrea Ferroglia	Theoretical particles physics, LHC phenomenology, calculation of Feynman diagrams, resummation techniques	aferroglia@citytech.cuny.edu	N-801
Boris Gelman	Nuclear and particle physics; physics of ultracold atomic clouds.	bgelman@citytech.cuny.edu	N-810
German Kolmakov	Condensed matter physics; computational physics, graphics processing units computations.	gkolmakov@citytech.cuny.edu	N-812
Lufeng Leng	fiber optics, optical system and network, fiber-based nonlinear devices	lleng@citytech.cuny.edu	N-800
Ariyeh Maller	Understanding the formation and evolution of galaxies. Both from a theoretical perspective using computer simulations and by applying novel methods to analyze observational data.	amaller@citytech.cuny.edu	N 801
Giovanni Ossola	Theoretical Particle Physics	gossola@citytech.cuny.edu	N-810

## SOCIAL SCIENCE

Faculty Member	Research Interest	Email	Office
Amanda L. Almond	Research includes: scale validation for self-care behaviors of women enrolled in graduate programs; the effects of microaggression on self-compassion, health promotion, and professional empowerment; and racial identity and attributions of race in the processing of disease-risk messages targeting Black Americans.	aalmond@citytech.cuny.edu	N-604
Daniel Capruso	Clinical neuropsychology	dcapruso@citytech.cuny.edu	N-625
Peter Catapano	Research focuses on the social and cultural life of immigrants to the US during the 20 <sup>th</sup> century. Special interests include comparing representations of early 20 <sup>th</sup> century and post-1965 immigration.	pcatapano@citytech.cuny.edu	N-610
Lisa Pope Fischer	Anthropological research focuses on post socialist Hungarian society from a global perspective as a way to address concerns regarding identity (gender, ethnic, national), issues of power and agency, the social construction of time and space, and the politics of difference and social inequities. My multi-site research includes the impact of migration and societal change on personal practice.	LPopeFischer@citytech.cuny.edu	N-627
Pa Her	Understanding the intersection of culture, emotion and identity. Examining how the interaction of culture with these processes affects the psychological and physical well-being of the individual.	pher@citytech.cuny.edu	N-600
Tina Kao	Main general interest is in behaviors associated with stress and learning	tkao@citytech.cuny.edu	N-624
Fangxia Lin	Financial economics, risk management, financial statement analysis, copula methods in finance.	fxlin@citytech.cuny.edu	N-600
Sean P. MacDonald	Research interests include public policy, labor market trends, and sustainable economic development and policy. I am also interested in examining the long-term impact of shifts in taxation and spending policies that have contributed to widening income inequality in the U.S. economy.	smacdonald@citytech.cuny.edu	N-600
Gulgun Bayaz Ozturk	Poverty, Income Inequality, Income mobility	gbayazozturk@citytech.cuny.edu	N-610
Laureen Park	My interests include Metaphysics, Phenomenology, and psychoanalysis. More recently, I've done work in Conflict Resolution Scholarship.	LPark@citytech.cuny.edu	N-627
Eric M. Rodriguez	Lesbian/Gay/Bisexual/Transgender/Queer/Intersex (LGBTQI) Issues, HIV/AIDS, Identity Conflict and Integration, Personality Psychology, Positive Psychology, Psychology of Religion, Research Methods and Statistics and Social Psychology. My current research builds upon my doctoral dissertation work on LGBTQI people of faith.	erodriguez@citytech.cuny.edu	N-625
Howard Sisco	Main general interest is in behaviors associated with stress and learning	hsisco@citytech.cuny.edu	N-625



# *School of Professional Studies*

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*Baccalaureate degrees within this school include:*

**Business & Technology of Fashion  
Career & Technical Teacher Education  
Health Service Administration  
Hospitality Management  
Human Services  
Legal Assistant Studies  
Nursing  
Radiological Science  
Technology Teacher Education**

## SCHOOL OF PROFESSIONAL STUDIES

### BUSINESS

Faculty Member	Research Interest	Email	Office
Lucas Bernard	Projects which involve international business, risk management, and structured finance. Interest in projects which explore the ways in which economics blends together human values, politics, rationality and irrationality; more specifically, how this interplay reveals itself in society at large.	lbernard@citytech.cuny.edu	N-1012
Alyssa Dana Adomaitis	Analyzing sexual objectification of women/men in luxury advertising (ie. Gucci, Channel, Armani) advertising and using semi-structured interviews to collect data on consumer perceptions	aadomaitis@citytech.cuny.edu	N-1012

### CAREER AND TECHNICAL TEACHER EDUCATION

Faculty Member	Research Interest	Email	Office
Euisuk Sung	3D modeling, microcontroller, engineering design, invention, computing technology, STEM education.	esung@citytech.cuny.edu	P-510

### DENTAL HYGIENE

Faculty Member	Research Interest	Email	Office
Susan Davide	Oral/dental health, dental products, infection control, occupational hazards, infection control, disease transmission and prevention.	sdavide@citytech.cuny.edu	A-702N

### HEALTH SERVICES ADMINISTRATION

Faculty Member	Research Interest	Email	Office
Katherine Gregory	qualitative research methods, health disparities, public health, social aspects of genetics, social marketing	kgregory@citytech.cuny.edu	A-811D

### HOSPITALITY MANAGEMENT

Faculty Member	Research Interest	Email	Office
Heejun "Ellen" Kim	Hospitality Management and Marketing, Destination Marketing Management, Hotel/Airline/Casino Operations and Management, Business-to-business Marketing, Hospitality Marketing Consultancy, Business/Marketing Plan, Internet Marketing for Enterprises, Social Media/Website, etc.	HEKim@citytech.cuny.edu	N-200
Robert Walljasper	Culinary Arts: Creativity, creative works, history, education, workplace environment, cultural influences and perspectives.	RWalljasper@citytech.cuny.edu	N-221

## HUMAN SERVICES

Faculty Member	Research Interest	Email	Office
Soyeon Cho	Mental and Physical health disparities among minority population especially in elders/Stress management and coping with chronic stressors	scho@citytech.cuny.edu	A-805
Mery F. Diaz	Interest includes issues of race, gender, class, and power in childhood, narrative approaches, child and adolescent mental health, social justice education k-higher ed, Latinx issues, school social work.	mdiaz@citytech.cuny.edu	A-805
Carmen V. Negrón	Of particular interest are program evaluation, social welfare policy, social action, cause related marketing, the impact of social media on nonprofit organizations, grass-roots empowerment, and participatory research projects that connect women and girls to the land.	cnegron@citytech.cuny.edu	A-805

## LAW AND PARALEGAL STUDIES

Faculty Member	Research Interest	Email	Office
Marissa J. Moran	Legal Technology in relation to existing law, the expectation of privacy, security, data analysis, and evidence. Forensic Science & The Legal Process exploring the intersection of science and law.	mmoran@citytech.cuny.edu	N-622

## NURSING

Faculty Member	Research Interest	Email	Office
Aida Egues	Mentoring of registered nurses; professional and general incivility; health disparities; community and public health nursing; service learning; HIV/AIDS, chronic illness, ethical/moral reasoning	aegues@citytech.cuny.edu	A-611P

## RADIOLOGIC TECHNOLOGY AND MEDICAL IMAGING

Faculty Member	Research Interest	Email	Office
Jennett M. Ingrassia	Areas in radiologic technology specific to education. Research involves the effectiveness of allied health clinical instructors / preceptors from both the perspective of the clinical instructor and the student.	jingrassia@citytech@cuny.edu	A-415
Eric Lobel	Medical Imaging and Informatics, Computed Tomography and Magnetic Resonance Imaging and teaching methodology	elobel@citytech.cuny.edu	A-415D
Subhendra Sarkar	Biomedical and clinical medical imaging including science and technology of MRI, CT, Nuclear Medicine; projects may involve modeling and experimentation with X-rays toward mechanism of cancer, neural communication and disease processes and materials science for biomedical applications.	ssarkar@citytech.cuny.edu	A-414
Zoya Vinokur	Student's perception on distant learning education during COVID-19. Cultural competency, assessment study of cultural competence amongst healthcare students. Biomedical and clinical medical imaging including science and technology of MRI, CT, Nuclear Medicine; projects may involve modeling and experimentation with X-rays toward mechanism of cancer	zvinokur@citytech.cuny.edu	A-415B

## RESTORATIVE DENTISTRY

Faculty Member	Research Interest	Email	Office
Avis J. Smith	Various including Ethics, Inclusion, Education, Social, Health.	asmith@citytech.cuny.edu	A-601

# *School of Technology & Design*

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*Baccalaureate degrees within this school include:*

**Architectural Technology**  
**Communication Design**  
**Computer Engineering Technology**  
**Computer Systems**  
**Construction Engineering Technology**  
**Data Science**  
**Electrical Technology**  
**Emerging Media Technology**  
**Entertainment Technology**  
**Facilities Management**  
**Mechanical Engineering Technology**  
**Telecommunications Engineering Technology**

# SCHOOL OF TECHNOLOGY AND DESIGN

## ARCHITECTURAL TECHNOLOGY

Faculty Member	Research Interest	Email	Office
Phillip Anzalone	Research in design, engineering and prototyping active facade systems incorporating novel material and processes.	panzalone@citytech.cuny.edu	V-414 V-818
Alexander Aptekar	Current research includes high-performance architecture ("green and passive architecture") and structures including their construction assemblies and materials. Also development of building information modeling (BIM) and related collaborative and interoperability processes.	aaptekar@citytech.cuny.edu	V-205
Esteban Beita Solano	Virtual Reality (VR); Photo-realistic 3D Rendering; Traditional and Contemporary Japanese Architecture; The Architecture of Le Corbusier Experiencing Architecture Space through Virtual Reality; Light and Shadow in Architecture	ebeitasolano@citytech.cuny.edu	V-207
Ting Chin	The development, history, and significance of the Brooklyn Civic Center and speculations on its future.	tchin@citytech.cuny.edu	V-203
Jill Bouratoglou	Chronological study of the construction of a single family house in Brooklyn, NY.	jbouratoglou@citytech.cuny.edu	V-818
Lia Dikigoropoulou	NY City Site Analysis Case Studies	ldikigoropoulou@citytech.cuny.edu	V-826
Michael Duddy	The development, history, and significance of the Brooklyn Civic Center and speculations on its future.	mduddy@citytech.cuny.edu	V-203
Paul C. King	Roebing "Before the Bridge": examines the early work of John Augustus Roebing and the innovations that led to the design and construction of the Brooklyn Bridge. "Master Planning for an under serviced community": the development of a master plan vision study and the design of a visitor center to assist the Town of Mamakating New York to rebrand themselves as a recreational center by taking advantage of the historic significance of the route of the D & H Canal, two railroad easements and the Long Path and Shawangunk Ridge Trail hiking paths. Related to my primary area of research the D & H Canal included the construction of 4 Roebing Suspension Aqueducts.	pking@citytech.cuny.edu	V-824
Jihun Kim	Simulating environment for high performance buildings; urban microclimate analysis; integrated design for energy and efficiency	jkim@citytech.cuny.edu	V-803
Jason Montgomery	The development, history, and significance of the Brooklyn Civic Center and speculations on its future.	jmontgomery@citytech.cuny.edu	V-203

## COMMUNICATION DESIGN

Lloyd Carr	How to get clean and perceptively similar color in both print and non-print graphic communications media.	LCarr@citytech.cuny.edu	P 100
George Garrastegui, Jr.	As an avenue to the topic of design process, I have initiated a podcast as a form of data collection. In this podcast, I speak to designers, artists, writers, and more to discuss their methodologies. We discuss habits and reveal ideas and methods that the creative has never actualized before.	ggarrastegui@citytech.cuny.edu	N-1127
Anita Giraldo	Graphic design and typography; innovative and experimental print methods, digital and analog distribution.	AGiraldo@citytech.cuny.edu	N-1111

Dan Wong	Research + Design + Technology; Defining research in the field of Communication Design, including the development of a taxonomy of terms and concepts; the mapping of design methodologies and assessments using behavioral cognitive psychology approaches, and statistical analysis; finding creative solutions to problems using technology.	dwong@citytech.cuny.edu	N-1111
Noreen Whysel	Expanding the role of UX research and design into adjacent fields. Current research projects involve trusted identity standards in healthcare, geographic information systems, cybersecurity, accessibility, and media literacy.	nwhysel@citytech.cuny.edu	TBA

## COMPUTER ENGINEERING TECHNOLOGY

Faculty Member	Research Interest	Email	Office
Aparicio Carranza	Software Defined ... (Networking, Storage, Computing), cloud computing and networking, cybersecurity, Big Data	acarranza@citytech.cuny.edu	V-626
Ohbong Kwon	Spectrum analysis, Digital filter design, DSP (Digital signal processing) algorithm implementation, Digital Design using FPGA, Control systems	okwon@citytech.cuny.edu	V-619
Xiaohai Li	Robotics and control systems, embedded systems, wearable computing, wireless sensor networks, Internet of Things (IoT), cognitive radio mesh networks, and computer vision.	xhli@citytech.cuny.edu	V-642
Benito Mendoza	Multi-Agent and Bio-inspired Systems, Mobile Computing, Internet of Things and Cyber-Physical Systems, Technology and Artificial Intelligence for Education.	bmendoza@citytech.cuny.edu	V-620
Jose M. Reyes Alamo	Smart homes, Software Engineering, Mobile Computing, Service-Oriented Computing, Internet of Things (IoT), Information Retrieval	jreyesalamo@citytech.cuny.edu	V-621
Yu Wang	Wireless sensor network with prosthetic limbs for amputee and algorithms to filter noise and amplify biosensor signals as well as create interfaces to visualize the data.	ywang@citytech.cuny.edu	V-629
Chen Xu	Biomedical sensors and instrumentation, Non-invasive medical test, Image processing and signal processing	cxu@citytech.cuny.edu	V-643
Farrukh Zia	Social and Interactive Robots, Mobile Robots, Wearable and Fashion Technology, Neural Networks and Fuzzy Logic applications, Computer Controlled Systems, Wireless Communication, Mechatronics.	fzia@citytech.cuny.edu	V-624

## COMPUTER SYSTEMS TECHNOLOGY

Faculty Member	Research Interest	Email	Office
Yu-Wen Chen	Smart Grid (scheduling for the Electric Vehicle, customer behavior, renewable energy resources), Cloud Computing, Big Data Optimization, Information Security.	ywchen@citytech.cuny.edu	N-913
Ossama Elhadary	Research interests include all aspects of electronic commerce, technology adoption, and computer networks.	oelhadary@citytech.cuny.edu	N-913
Elizabeth Milonas	Human computer interaction components used in relational databases and non-relational databases. Big data organizational mechanisms used in web-based search engines and information retrieval systems. Techniques used for incorporating ethics in the computer curriculum specifically in the data science curriculum.	EMilonas@citytech.cuny.edu	N-1000
Marcos S. Pinto	Client/Server Programming, Semantic Web, Web Services, Intelligent Networks, Artificial Intelligence, Expert Systems	mpinto@citytech.cuny.edu	N-1026
Ashwin Satyanarayana	Big Data and Data Analytics; Data Mining and Machine Learning with applications in Real World Learning Problems	asatyanarayana@citytech.cuny.edu	N-914

## CONSTRUCTION MANAGEMENT & CIVIL ENGINEERING TECHNOLOGY

Faculty Member	Research Interest	Email	Office
Navid Allahverdi	Structural Design, Optimization, and Control   High Performance Concrete Testing   Scientific Computation Techniques	nhajiallahverdipur@citytech.cuny.edu	V-415
Ivan Guzman	Green Roofs, Transparent Soils, Laboratory Determination of Mechanical Properties of Soil, Rapid Penetration into Soils	IGuzman@citytech.cuny.edu	V-431
Hamidreza Norouzi	Earth, Environment, and Climate Studies Using Remote Sensing and Ground Observations	hnorouzi@citytech.cuny.edu	V-424
Anne Marie Sowder	Construction management, project analysis, risk analysis, sustainability, urban planning and history	amsowder@citytech.cuny.edu	V-425



## ELECTRICAL AND TELECOMMUNICATIONS ENGINEERING TECHNOLOGY

Faculty Member	Research Interest	Email	Office
Li Geng	Statistical Signal Processing with its applications in areas such as signal detection and estimation, indoor positioning; big sensor data analytics in the Internet of Things; big data analytics across disciplines.	lgeng@citytech.cuny.edu	V-733
Asm Delowar Hossain	Network Protocol, Quality of Service, Resource Allocation Algorithm for Optical-Wireless Network at the access level.	ahossain@citytech.cuny.edu	V-742
Zory Marantz	Power Control, Wireless communications: WiFi, Bluetooth, Zigbee, and software defined radios.	zmarantz@citytech.cuny.edu	V-737
Muhammad Ummy	Fiber optics, fiber lasers and fiber sensors	MAUmmy@citytech.cuny.edu	V-736
Viviana Vladutescu	Earth Remote Sensing and Target Surveillance	vvladutescu@citytech.cuny.edu	V-729
Xinzhou Wei	Research interests include computer networking and security, RFID and embedded device security	xwei@citytech.cuny.edu	V-727

## ENVIRONMENTAL CONTROL TECHNOLOGY/FACILITIES MANAGEMENT

Faculty Member	Research Interest	Email	Office
Daeho Kang	Building energy simulation, High performance building, Indoor environmental quality analysis, HVAC systems design, and Ventilation	dkang@citytech.cuny.edu	E-206
Lukasz Sztaberek	Indoor air quality monitoring (with focus on VOCs) and purification using PCO (Photocatalytic Oxidation)	lsztaberek@citytech.cuny.edu	V-437

## MECHANICAL ENGINEERING AND INDUSTRIAL DESIGN TECHNOLOGY

Faculty Member	Research Interest	Email	Office
Malek Brahimi	Fuel Cell Technology, Composite Material, Vibration Simulation	MBrahimi@citytech.cuny.edu	V-526
Gaffar Gailani	Biomechanics, Strength of Materials, Computational work	ggailani@citytech.cuny.edu	V-533
Masato Nakamura	Energy and Environmental, Simulation, Materials and Energy Recovery, Manufacturing and Recycling Technology, Eco-Design, Sustainable Computing	mnakamura@citytech.cuny.edu	V-532
Serdar Ozlek	Machine Design, Finite Element, Vibration, Robotics, Optimization, and Control.	sozlek@citytech.cuny.edu	V-529
Akm Samsur Rahman	Composite Materials, Bio Materials, Nanomaterials, Fracture Mechanics	asrahman@citytech.cuny.edu	V-533
Angran Xiao	Engineering Design, Product Lifecycle Management, CAD/CAM, Optimization, virtual engineering	axiao@citytech.cuny.edu	V-534
Ozlem Yasar	Tissue Engineering, Biomechanics, Biofabrication	oyasar@citytech.cuny.edu	V-526
Zhou Zhang	Virtual Reality, Computer Vision, Internet of Things, Mechatronics, Robotics, Embedded system and Finite element analysis applied in the field of the electromagnetic field	ZhZhang@citytech.cuny.edu	V-530

Faculty:

To add your name, research interests and contact information to the Undergraduate Research Faculty Mentors Brochure and to help interested students learn about your scholarly activities, please email your information to Prof. Robert Walljasper, [rwalljasper@citytech.cuny.edu](mailto:rwalljasper@citytech.cuny.edu).

## **City Tech's Undergraduate Research Website:**

<http://www.citytech.cuny.edu/research/>

[There is a wealth of information for students at this site, including: a summary of student scholarly activities, poster winner historical information, up-to-date applications for undergraduate research program, and other information]

## **Undergraduate Research on OpenLab**

<http://openlab.citytech.cuny.edu/groups/undergraduate-research/>

## **City Tech's Chapter of National Society of Collegiate Scholars (NSCS)**

<https://nscs.org/new-york-city-college-of-technology/>

## **National Science Foundation (NSF) Improving Undergraduate STEM Education: Hispanic-Serving Institutions**

<https://www.citytech.cuny.edu/nsf-hsi-iuse-program/>

## **National Science Foundation (NSF) Scholarships in STEM**

<http://www.citytech.cuny.edu/s-stem/>

*Undergraduate Research Faculty Mentors Brochure was designed, compiled, and prepared by Prof. Diana Samaroo (2009-2020).*

*It is currently being maintained by Prof. Robert Walljasper (2020-2022)*

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