RIT embraces the teacher-scholar model of education, engaging faculty and students in research, pedagogical undertakings and scholarly activities that continue to impact our partners in industry, our peers within the academic community, and the world. Their work, which ranges from making our university and our communities more sustainable, to understanding the very fabric of our universe, engages students in ways which prepare them for our ever-changing world.

Our recent research, scholarship and creative works are a clear indicator that we are moving ever closer to our vision of making RIT a pre-eminent student-centered research university. This includes faculty engaged in creative inquiry, the applications of new and existing technologies to solve industrial challenges, as well as interdisciplinary work that crosses and intersects traditional boundaries.

The connections made by RIT faculty engaged in this important work establish new opportunities for our students, and prepare them for the next stage of their careers. It is through these diverse scholarly pursuits that students and faculty are able to collaborate across international borders, and bring new insights and perspectives to their work. It is with great pride that I present this report highlighting our faculty’s scholarly achievements during 2015.

JEREMY HAEFNER, PH.D.
Provost and Senior Vice President for Academic Affairs
Rochester Institute of Technology
COMPUTER SCIENCE

Reynold J Bailey, Associate Professor


Ivona Bezakova, Associate Professor


Hans-Peter Bischof, Professor


Zachary Butler, Associate Professor


Raafat S Elfouly


Matthew Fluet, Assistant Professor


James E Heliotis, Professor

Edith Hemaspaandra, Professor


FEATURED FACULTY

ANDY MENEELY is an Assistant Professor in the Department of Software Engineering in the B. Thomas Golisano College of Computing and Information Sciences. His research interests lie with empirical software engineering, software security, collaborative software development, open source development, socio-technical factors, metrics and measurement, applied machine learning & data mining.

In today’s digital society, software is more than a convenience: it’s our livelihood. The software that runs our lives must be secure. The cost of insecure software is more than monetary, it’s impacts us as consumers, patients, and citizens. The burden of delivering secure software falls squarely on the shoulders of today’s software engineers. Every vulnerability is an engineering failure that can have its roots in software design problems, team collaboration issues, socio-technical factors, and many others.

Dr. Meneely studies the phenomenon of software vulnerabilities by mining software repositories and trying to understand how these mistakes are made and missed. Using a combination of design metrics and human factors metrics, researchers in Meneely’s lab develop machine learning models for predicting the occurrence of vulnerabilities. These models are useful for prioritizing fortification efforts for software development teams, but they also speak to underlying truths about how humans work on code. In a recent study, for example, researchers in Meneely’s lab were able to show that developers who participate in a discussion for a vulnerability fix with their colleagues are less likely to have vulnerabilities in their own code later on. In another study, researchers in Meneely’s lab were able to predict vulnerabilities by simulating how attackers would search for weaknesses.

All of this historical research on vulnerabilities is also useful for the classroom. This research has been the foundation for the Engineering Secure Software course, a required course for the Software Engineering curriculum developed by Dr. Meneely. Using data from actual, historical vulnerabilities means that students get to experience what real software development is like, and what attackers are typically looking for.

ANDY MENEELY
ASSISTANT PROFESSOR
COMPUTER SCIENCE
B. THOMAS GOLISANO COLLEGE OF COMPUTING AND INFORMATION SCIENCES

Christopher M Homan, Associate Professor


Peizhao Hu, Assistant Professor


Alan Kaminsky

Thomas B Kinsman

Mohan J Kumar, Professor


**Minseok Kwon, Associate Professor**


**Xumin Liu, Assistant Professor**


**Stanislaw Radziszowski, Professor**


**Invited Keynote/Presentation:** Radziszowski, Stanisław P. "Some Computational and Theoretical Problems for Ramsey Numbers." Third Gdansk Workshop on Graph Theory, Technical University of Gdansk. Gdansk, Poland. 16 Sep. 2015. Keynote Speech.

**Rajendra Raj, Professor**


**Leonid Reznik, Professor**


**Carlos Rafael Rivero Osuna**


Carol J Romanowski, Associate Professor


Richard Zanibbi, Associate Professor


DEPARTMENT OF COMPUTING SECURITY

Daryl G Johnson, Associate Professor


Yin Pan, Associate Professor


INFORMATION SCIENCES AND TECHNOLOGIES

Dan Bogaard, Associate Professor


Charles Border, Associate Professor


Deborah Gears, Associate Professor


Vicki L Hanson, Professor


Bruce Hartpence, Associate Professor

Edward Holden, Associate Professor


Matt Huenerfauth, Associate Professor


External Scholarly Fellowships/National Review Committee:
9/1/2014 - 8/31/2018
National Science Foundation
Amount: 537997 *
External Scholarly Fellowships/National Review Committee:
   12/1/2015 - 12/31/2019
   National Science Foundation
   Amount: 449987 *


External Scholarly Fellowships/National Review Committee:
   8/20/2014 - 6/30/2016
   National Science Foundation
   Amount: 59964 *


Jai W Kang, Associate Professor


Deborah M LaBelle, Lecturer


Peter H Lutz, Professor

Sharon Mason, Associate Professor


Tae Oh, Associate Professor


Sylvia Perez-Hardy


Brian Tomaszewski, Assistant Professor


Published Game, Application or Software: Tomaszewski, Brian, Heintz, Andrew, and Mupenzi, Jules. Iwacu Spatial Thinking Android App. Phone or Smart Device App. Google Play. 2015.

Published Game, Application or Software: Tomaszewski, Brian and Siddesh Pillali. ViruWiga Mobile Medical Education Android App. Phone or Smart Device App. Google Play. 2015.


Qi Yu, Associate Professor


**Steve Zilora, Associate Professor**


**PHD PROGRAM**

**Anne Haake, Professor**


**Charles D Roberts**


**Pengcheng Shi, Professor**


**Linwei Wang, Assistant Professor**


SCHOOL OF INTERACTIVE GAMES AND MEDIA

Adrienne Decker, Assistant Professor


Owen A Gottlieb, Assistant Professor


Charles D Roberts


David Schwartz, Associate Professor


David W Simkins, Assistant Professor

SOFTWARE ENGINEERING

Daniel Krutz, Lecturer


Samuel A Malachowsky


Andy Meneely, Assistant Professor


Meiyappan Nagappan

CIVIL ENGINEERING TECHNOLOGY, ENVIRONMENTAL MANAGEMENT AND SAFETY

Amanda Bao, Assistant Professor


Harry G Cooke


md Abdullah Al Faruque, Assistant Professor


Lisa L Greenwood, Lecturer


Jennifer Schneider, Professor

CARLOS DIAZ is an Assistant Professor in the Department of Packaging Science at RIT. He works with RIT’s Center for Sustainable Packaging to develop new generation materials and packaging solutions that reduce food and energy waste. He chairs the Sustainable Packaging Working Group for the International Association of Packaging Research Institutes (IAPRI).

He has focused on engaging undergraduate and master students in research. With funding from New York State Pollution Prevention Institute (NYSP2I) he has looked at ways to improve the performance of biodegradable plastics which in turn could support compostable waste streams. In collaboration with Dr. Christiaan Richter in Chemical Engineering, they investigated the oxygen scavenging abilities of titanium oxide nanotubes. Through experiments conducted by RIT undergraduate students, they demonstrated the nanotubes can remove oxygen 2400 times faster than current commercial oxygen scavengers. The results were published in Nature Nanotechnology.

His research interests include packaging technologies based on plastic materials, bio-based plastics and composites, nanotechnology in packaging, microcellular foaming and Design of Experiments (DOE). He co-authored the Vinyl Alcohol Polymers chapter in the second edition of the Handbook of Thermoplastics released this past December. Prior to joining RIT, Dr. Diaz was a research associate for the School of Packaging at Michigan State University where he studied migration of nano-components in nano-clay/polymer composite films for food contact application. His doctoral dissertation dealt with “Continuous Microcellular Foaming of Polylactic Acid/Natural Fiber Composites.”

CARLOS DIAZ
ASSISTANT PROFESSOR
PACKAGING SCIENCE
COLLEGE OF APPLIED SCIENCES & TECHNOLOGY


**Maureen S Valentine, Professor**


**Scott B Wolcott, Professor**

DEPARTMENT OF SERVICE SYSTEMS

Malarvizhi Hirudayaraj, Assistant Professor


Torrence E Sparkman


ELECTRICAL, COMPUTER AND TELECOMMUNICATIONS ENGINEERING TECHNOLOGY

Steven M Ciccarelli


Mark J Indelicato, Associate Professor


SungYoung Kim, Assistant Professor


Drew Maywar, Assistant Professor

**External Scholarly Fellowships/National Review Committee:**

6/3/2015 - 12/2/2015
Office of Naval Research
Amount: $21,574 * £ ≠


HOSPITALITY AND TOURISM MANAGEMENT

Yu-Chin J Hsieh


Muhammet Kesgin, Assistant Professor


Domagoj Nikolic


Carole B Whitlock, Professor


MANUFACTURING AND MECHANICAL ENGINEERING TECHNOLOGY

Martin K Anselm, Assistant Professor


Beth A Carle, Associate Professor

Betsy Dell, Associate Professor


**External Scholarly Fellowships/National Review Committee:**
9/1/2015 - 8/31/2018
National Science Foundation-PLAN D Amount: $66,225 ($690,639 Main Award, Dell co-PI) «


Mark W Olles, Assistant Professor


PACKAGING SCIENCE

Carlos Diaz-Acosta, Assistant Professor


Martin Gordon


Christopher L Lewis

Changfeng Ge, Associate Professor


BIOMEDICAL SCIENCES

Cory A Crane, Assistant Professor


**Invited Keynote/Presentation:** Crane, C.A. "Domestic & Intimate Partner Violence: Supports & Resources to Strengthen families." Annual Mental Health Summit of the Canandaigua Veterans Affairs Medical Center. Canandaigua VAMC. Canandaigua, NY. 4 Aug. 2015. Address.

CORY CRANE COMPLETED HIS GRADUATE TRAINING AT PURDUE UNIVERSITY BEFORE ACCEPTING PRE AND POSTDOCTORAL APPOINTMENTS AT THE YALE UNIVERSITY SCHOOL OF MEDICINE AND THE RESEARCH INSTITUTE ON ADDICTIONS WITH THE UNIVERSITY AT BUFFALO, RESPECTIVELY. HE JOINED RIT IN THE FALL OF 2014 WHERE HIS RESEARCH HAS REMAINED FOCUSED ON THE INTERSECTION OF INTIMATE PARTNER VIOLENCE (IPV) AND ADDICTION.

In collaboration with colleagues across the RIT campus and in the greater Rochester community, Dr. Crane’s primary research involves developing and evaluating brief or adjunctive interventions that meet individualized needs to increase treatment compliance and reduce recidivism rates among recently adjudicated partner violence perpetrators. Interventions include efforts to develop intrinsic motivation to change maladaptive behaviors and integrated treatments addressing comorbid conditions that may interfere with attempts to modify violent behavior, such as post-traumatic stress disorder or substance use diagnoses. In a related area of study, Dr. Crane is pursuing research to improve primary prevention efforts intended to reduce the incidence and escalation of physical IPV perpetration. These projects involve identifying barriers that prevent critical discussions about partner violence between healthcare providers and their patients as well as the development of a brief IPV perpetration screening tool for the purposes of routine clinical evaluation.

Further, Dr. Crane’s lab is involved in basic research efforts to elucidate proximal moderators of the relationship between alcohol use and partner violent behavior using survey, experimental, meta-analytic, and ecologically valid, daily reporting methodologies among understudied and high functioning populations of interest, including moderate to heavy social drinkers, military veterans, deaf and hard of hearing individuals, female perpetrators, and relationship dyads. Observed moderators of the association between alcohol and IPV include depletion of self-control, acute symptomatology, anger, and fluctuations in relationship satisfaction. The lab has recently expanded its focus to incorporate alternative forms IPV, including stalking behavior and cyber aggression.

CORY CRANE
ASSISTANT PROFESSOR
BIOMEDICAL SCIENCES
COLLEGE OF HEALTH SCIENCES & TECHNOLOGY
DIAGNOSTIC MEDICAL SONOGRAPHY

Hamad Ghazle, Professor


NUTRITION MANAGEMENT

Barbara A Lohse


MEDICAL ILLUSTRATION

James Perkins, Professor


PHYSICIAN ASSISTANT

John B Oliphant, Assistant Professor

SCHOOL FOR AMERICAN CRAFTS

Robin Cass, Professor


External Scholarly Fellowships/National Review Committee:
4/24/2015 - 4/29/2015
Central Academy of Fine Arts, IFC
Amount: 0

Peter J Pincus, Visiting Assistant Professor


SCHOOL OF ART

Denton L Crawford


Elizabeth Kronfield, Associate Professor

ROBERT CHUNG is a professor and the Roger K. Fawcett Distinguished Professor in Color Reproduction in the School of Media Sciences. He is also a registered global expert in ISO Technical Committee 130 and the convenor of Working Group 13. His research agenda includes standardization, printing process control, and color management.

Fawcett Publication was an American publishing company. Roger K. Fawcett was the second generation of the Fawcett family who managed a vast publishing empire embracing magazines, comic books, and paperback books. As the Fawcett Chair, Bob focuses his research on the science of print media technology and teaches the applications of cutting-edge technology in real-world color reproduction.

Standardization addresses communication between people, machines, parts, and products. As a global expert in ISO/TC130, Bob participates in standards development activities in process control, metrology, and image quality. As the convenor of WG13, Bob leads the development of international printing conformity assessment standards.

In 2015 Bob published five technical papers. He presented a paper at the TAGA (Technical Association of the Graphic Arts) Annual Technical Conference. He and three of his thesis students also presented their research projects at the TAGA Conference. These students found jobs in the related fields upon graduation. By collaborating with industry partners from Hong Kong, Bob published a case study on using printing process control tools to print to standards. Bob was invited to teach two short courses at the Wuhan University, Hubei, China, in April 2015.

Believing that student-centered research is an effective way to learn, Bob continues his role as thesis adviser. He has been successful in connecting his student’s research and industry problems together.

ROBERT CHUNG
Distinguished Professor
School of Media Sciences
College of Imaging Arts and Sciences
Shows/Exhibits/Installations: Kronfield, Elizabeth. Trapped Remnant. 1 Mar. 2015. Iron Tribe, New Mexico Highlands University, Las Vegas, NM. Exhibit. Δ


Alan D Singer, Professor

Sarah E Thompson, Assistant Professor


SCHOOL OF DESIGN

Deborah A Beardslee, Associate Professor


Nancy A Bernardo, Assistant Professor

External Scholarly Fellowships/National Review Committee:
7/1/2015 - 8/1/2015
National Endowment for the Humanities
Amount: $3500 ≠


Lorrie Frear, Associate Professor

Shows/Exhibits/Installations: Frear, Lorrie. When the Cats are Away, the Mice Will Play. n.d. action: The twelve 2015 International Winners will be on display in the lobby of the National Association of Letter Carriers headquarters building, 100 Indiana Ave. NW, Washington, DC 20001 beginning in July 2015 for a year, Washington DC. Exhibit. *


Chris Jackson, Professor


Alex Lobos, Assistant Professor


Nick Paulus


Marla Schwepepe, Professor


SCHOOL OF FILM AND ANIMATION

Cathleen Ashworth, Associate Professor

National/International Competition Award Winner: (Director), Cathleen Ashworth. 18th Annual Native American Film Festival of the Southeast. Best Original Music Composition. Columbia, South Carolina, 2015.

National/International Competition Award Winner: (Director), Cathleen Ashworth. Red Nation Film Festival. Best Animation and Best Short Film. Los Angeles, CA, 2015.

Shows/Exhibits/Installations: (Director), Cathleen Ashworth. Iroquois Creation Story. 6 Dec. 2015. Santa Fe Film Festival - Juried Festival, Santa Fe, New Mexico. Exhibit.

Shows/Exhibits/Installations: (Director), Cathleen Ashworth. Iroquois Creation Story. 14 Nov. 2015. 12th Annual Commanche Nation Film Festival - Invitational, Lawton, Oklahoma. Exhibit.


Jack A Beck


Thomas D Gasek, Associate Professor


External Scholarly Fellowships/National Review Committee:

Fulbright (US Government)
Amount: Flight / Housing and $200 per day *

Peter Kiwitt, Assistant Professor


Shows/Exhibits/Installations: Kiwitt, Peter. Purple Heart. 1 Aug. 2015. Gwinnett Center International Film Festival, Duluth, GA. Performance. £


David L Long, Associate Professor


Shu Chang, Visiting Assistant Professor


Robert Y. Chung, Professor


External Scholarly Fellowships/National Review Committee:
9/1/2005 - 9/1/2015
Graphic Communications Education Association
Double-blind editorial reviews twice a year in the past 10 years


Twyla Cummings, Professor


Elena A Fedorovskaya, Visiting Assistant Professor


Bruce Myers, Assistant Professor


SCHOOL OF PHOTOGRAPHIC ARTS & SCIENCES

Frank J Cost, Professor


Meredith L Davenport, Assistant Professor


Denis Defibaugh, Professor

External Scholarly Fellowships/National Review Committee:
12/15/2015 - 11/30/2017
NSF
Amount: $650,000 *


Rachel J Ferraro, Lecturer


Angela Kelly, Associate Professor


Douglas J Manchee, Associate Professor


Joshua H Meltzer


Ahndraya Parlato, Lecturer


Christye P Sisson, Associate Professor


Joshua J Thorson, Visiting Assistant Professor


Catherine Zuromskis


M Ann Howard, Professor


James Winebrake, Professor


Hinda B Mandell, Assistant Professor


Kelly Martin, Assistant Professor


Jonathan Schroeder, Professor


Tracy Worrell, Associate Professor


JUILEE DECKER IS AN ASSOCIATE PROFESSOR OF MUSEUM STUDIES IN THE DEPARTMENT OF PERFORMING ARTS AND VISUAL CULTURE IN THE COLLEGE OF LIBERAL ARTS. TRAINED AS AN ART HISTORIAN, HER RESEARCH AND SCHOLARSHIP ARE AT THE INTERSECTION OF MUSEUM STUDIES, PUBLIC HISTORY, AND PUBLIC ART. SHE HAS A PASSION FOR OBJECTS AND SEEKS WAYS TO FACILITATE DIALOGUES BETWEEN COMMUNITIES AND THE OBJECTS, SPACES, PLACES, AND PRACTICES THAT THEY HOLD DEAR.

I am currently working on the following projects: editor of a peer-reviewed journal; author of a manuscript; and reviser of a manuscript. Since 2008, I have served as editor of *Collections: A Journal for Museum and Archives Professionals*. This is one of my most rewarding research and scholarship activities that also provides for professional development and growth. As Editor, I stay abreast of research and practice in museums and archives in an effort to bring current research, scholarship, and practice to scholars, professionals, and student paraprofessionals. But, I also facilitate connections among the museum and archives communities through the journal and its ancillary activities. In addition, I am at work on two book projects. The first is an examination of the life and work of American sculptor Enid Yandell (1869—1934) that situates the artist historically, within the construct of the historical sculptural environment, while also defining and extending her legacy into the twenty-first century. The second is a revision of one of the field’s standards *Museums in Motion*. My approach with this volume has been very much informed by my work last year conceptualizing, editing, and contributing to a four-volume series focusing on museums entitled *Innovative Approaches for Museums*.

I see my research, scholarship, and teaching as united efforts to create, synthesize, analyze, and disseminate scholarly material. In fact, dissemination of such material—in the form of my own scholarship or that of others—is the animating force of my work. I see myself as a facilitator and collaborator with every author who writes for the journal that I oversee, museum professionals with whom I engage in projects, and faculty and student colleagues with whom I develop exhibitions.

JUILEE DECKER
ASSOCIATE PROFESSOR
PERFORMING ARTS AND VISUAL CULTURE
COLLEGE OF LIBERAL ARTS

**DEPARTMENT OF CRIMINAL JUSTICE**

**Laverne McQuiller, Associate Professor**


**Jason Scott, Associate Professor**


**DEPARTMENT OF ECONOMICS**

**Amit Batabyal, Professor**


Selhan Sahin


Jeffrey Wagner, Professor


DEPARTMENT OF ENGLISH

Cecilia Alm, Assistant Professor


A.J. Caschetta, Senior Lecturer


Gail Hosking


David S Martins, Associate Professor


Katherine E Morrissey


Laura A Shackelford, Associate Professor


**Elena R Sommers, Senior Lecturer**


**DEPARTMENT OF HISTORY**

**Tamar Carroll, Assistant Professor**


**Rebecca Scales, Assistant Professor**

**External Scholarly Fellowships/National Review Committee:**  
4/1/2015 - 4/1/2015  
National Endowment for the Humanities Summer Stipend  
Amount: $6000.00 ≠

**DEPARTMENT OF MODERN LANGUAGES AND CULTURES**

**Nikolina Bozinovic**


**Elisabetta D’Amanda, Senior Lecturer**

**Shows/Exhibits/Installations:** D’Amanda, Elisabetta Sanino. Astrodance: A Dance About the Wonders of the Universe. 6 Aug. 2015. RIT Astrophysics Department Website Permanent Film Screening, Rochester NY. Performance.

**DEPARTMENT OF PERFORMING ARTS AND VISUAL CULTURE**

**Juilee Decker, Associate Professor**


**DEPARTMENT OF PHILOSOPHY**

**Silvia Benso, Professor**


**Evelyn Brister, Associate Professor**

Katie Terezakis, Associate Professor


Lawrence Torcello, Assistant Professor


DEPARTMENT OF PSYCHOLOGY

Esa Rantanen, Associate Professor


DEPARTMENT OF SCIENCE TECHNOLOGY AND SOCIETY/ PUBLIC POLICY

Eric Hittinger, Assistant Professor


Sandra Rothenberg, Professor

DEPARTMENT OF SOCIOLOGY
AND ANTHROPOLOGY

Conerly Casey, Associate Professor


Kijana Crawford, Associate Professor


Christine Kray, Associate Professor


Courtney B Kurlanska


Uli Linke, Professor


Jessica W Pardee, Assistant Professor


Shana L Siegel, Visiting Assistant Professor


Danielle T Smith, Professor


OFFICE OF ENDOWED CHAIRS

Benjamin N Lawrance, Professor


Charles Bachmann


Peter Bajorski, Professor


Scott Brown

Nathan D. Cahill, Associate Professor


Roger Easton Jr, Professor


Jason Faulring


James A. Ferwerda, Associate Professor


Michael Gartley, Research Assistant Professor


Richard K. Hailstone, Associate Professor


Maria Helguera, Associate Professor


Andrew Herbert, Professor

AKHTAR A. KHAN is an Associate Professor at the School of Mathematical Sciences. His research interests lie broadly in the theory, numerics, and applications of inverse problems. He is also actively engaged in set-valued optimization, variational and quasi-variational inequalities, and optimal control.

Inverse Problems is a key interdisciplinary field, offering a fruitful interaction between the mathematical sciences, the life sciences and the social sciences in which the fundamental goal is the development of mathematical models, computational tools, and simulation techniques to assist in problems emerging in diverse disciplines. Khan’s primary interest is in elastography inverse problem which extends the practice of palpation, making use of the varying elastic properties of healthy and diseased tissue to identify likely tumors. He has recently devised a new convex framework that not only gives a global optimal solution, but also provides a fast and reliable computational setting for the elastography inverse problem of tumor identification.

Set-valued optimization is a vibrant and expanding branch of applied mathematics that deals with optimization problems where the objective map and the constraint maps are set-valued maps. Khan has contributed in various aspects of set-valued optimization. Most notably, he is the co-author of the monograph Set-Valued Optimization: Theory, methods and applications, published by Springer in 2014. This monograph which consumes almost 800 pages, is the first book on this subject and it reports most of the developments in this discipline.

Khan is an Associate Editor of the prestigious international journals Optimization and Journal of Optimization Theory and Applications. He is proud of his collaboration with faculty at RIT, nationally, and internationally, and he believes that his collaborators not only push him to sustain a high quality research agenda, they also provide necessary motivation and inspiration. More details of Khan’s work can be found at: people.rit.edu/~aaksma/

AKHTAR A. KHAN
ASSOCIATE PROFESSOR
SCHOOL OF MATHEMATICAL SCIENCES
COLLEGE OF SCIENCE
Matthew J Hoffman, Assistant Professor


Joseph Hornak, Professor


Emmett Ientilucci, Research Assistant Professor


Christopher Kanan


Joel Kastner, Professor


Keith T Knox


Robert Kremens, Research Professor


Poorna Kushalnagar, Research Assistant Professor


David Messinger, Associate Professor


Rupal Mittal


Rodolfo Montez, Jr.


Jeff Pelz, Professor


Published Conference Proceedings: Pelz, Jeff B. "From spoken narratives to domain knowledge: Mining linguistic data for medical image understanding." Artificial intelligence in medicine. (2015): --. Print. *


Esa Rantanen, Associate Professor

N Rao, Research Professor


Eli Saber, Professor


Giuseppe Sacco


Carl Salvaggio, Professor


Grover Swartzlander, Associate Professor


Jan van Aardt, Associate Professor


Anthony Vodacek, Professor


COLOR SCIENCE

Roy Berns, Professor


**Mark Fairchild, Professor**


**Michael J Murdoch**


**SCHOOL OF CHEMISTRY AND MATERIALS SCIENCE**

**Lea Michel, Assistant Professor**


**Kalathur S Santhanam, Professor**


**Gerald Takacs, Professor**


**SCHOOL OF MATHEMATICAL SCIENCES**

**Ephraim Agyingi, Associate Professor**


Peter Bajorski, Professor


Nathaniel S Barlow, Assistant Professor


Nathan D. Cahill, Associate Professor


Elizabeth Cherry, Associate Professor


Joshua A Faber, Associate Professor


David L Farnsworth, Professor


Raluca Felea, Associate Professor


Ernest Fokoue, Associate Professor


Matthew J Hoffman, Assistant Professor


Baasansuren Jadamba, Assistant Professor


Akhtar Khan, Associate Professor


Laura M Munoz, Assistant Professor

Darren A Narayan, Professor


Richard O'Shaughnessy, Assistant Professor


Wei Qian, Assistant Professor


Michael Radin, Associate Professor


Paul Wenger, Assistant Professor


John Whelan, Associate Professor


Tamas Wiandt, Associate Professor


Yosef Zlochower, Associate Professor


SCHOOL OF PHYSICS AND ASTRONOMY

Mishkatul Bhattacharya, Assistant Professor


Scott Franklin, Professor


Dehui Hu, Lecturer


Seth Hubbard, Associate Professor


**Jeyhan S Kartaltepe**


**M Kotlarchyk, Professor**


**Aaron McGowan, Lecturer**


**David Merritt, Professor**


Christopher ODea, Research Professor


Michael Pierce, Assistant Professor


Michael Richmond, Professor


Andrew Robinson, Professor


Joel D Shore, Lecturer


Robert B Teese, Professor


Benjamin M Zwickl, Assistant Professor


Mary-Anne Courtney


Feng Cui, Assistant Professor


Karl Korfmacher, Associate Professor


Carmody K McCalley


Dina Newman, Assistant Professor


Michael Savka, Professor


Gary R Skuse, Professor


Susan Smith, Assistant Professor

**Journal Paper:** Seewagen, Chad, Michale Glennon, and Susan B. Smith. "Does Exurban Housing Development Affect the Physiological Condition of Forest-Breeding Songbirds? A Case Study of Ovenbirds (Seiurus Aurocapillus) In the Largest Protected Area in the Contiguous United States." Physiological and Biochemical Zoology. July/August (2015): 1-. Print. *


Juli A Thomas


Anna Tyler, Associate Professor


Leslie Kate Wright, Assistant Professor

ACCOUNTING

Qian Song, Assistant Professor


Rong Yang, Associate Professor


ECONOMICS

Steven C Gold, Professor


FINANCE

Mejda B Bahlous-Boldi


Chun-keung Hoi, Professor


Some of Dr. Hao Zhang’s recent studies focus on corporate tax avoidance, which means that corporations take various actions to reduce tax payment. Dr. Hao Zhang, along with Saunders College of Business professor Dr. Stan Hoi and co-authors from RPI and Fordham University, published articles in Journal of Financial Economics (JFE) and The Accounting Review (TAR) about corporate tax avoidance. The TAR paper shows that firms with excessive irresponsible CSR activities have aggressive corporate tax avoidance, lending credence to the argument that corporate culture shapes tax avoidance behaviors. The JFE paper provides convincing evidence that debtholders, including banks and public bond investors, perceive corporate tax avoidance as risk-engendering activities and therefore charge higher interest cost when lending to firms that are aggressively avoiding taxes.

Dr. Hao Zhang is also interested in issues related to market microstructure and information intermediaries. The Journal of Financial Markets (JFM) paper, titled “A Simple Approximation of Intraday Spreads Using Daily Data” (with Dr. Kee Chung), provides a simple approximation of intraday bid-ask spread. Bid-ask spread is a widely-used measure of information asymmetry and market liquidity, therefore this study should be of interest to both academia and industry practitioners. This study and its proposed bid-ask spread measure have been cited and taught in a recent textbook that teaches financial modelling.

HAO ZHANG
ASSOCIATE PROFESSOR
DEPARTMENT OF FINANCE
SAUNDERS COLLEGE OF BUSINESS

Archana Jain, Assistant Professor


Ashok J Robin, Professor


Hao Zhang, Assistant Professor


INTERNATIONAL BUSINESS

Zhi Tang, Associate Professor


MANAGEMENT

Darline Augustine, Assistant Professor

Benjamin H Deitchman, Visiting Assistant Professor


Richard DeMartino, Associate Professor


Joy Olabisi, Assistant Professor


Shal Khazanchi, Associate Professor


Michael Palanski, Associate Professor


William R Stromeyer


MANAGEMENT INFORMATION SYSTEMS

Quang N Bui


Sean W Hansen, Assistant Professor


Manlu Liu, Assistant Professor


Bryan A Reinicke


Yang Yu, Assistant Professor


MARKETING

Vincent M Landers, Assistant Professor


Joseph C Miller, Assistant Professor


Rajendran S Murthy, Assistant Professor


ARCHITECTURE

Giovanna Potesta


External Scholarly Fellowships/National Review Committee:
1/1/2000 - 5/30/2003
University of Florence & Immobiliare Novoli SpA
Amount: 60.000


External Scholarly Fellowships/National Review Committee:
2/15/2016 - 3/15/2016
International Association of Traditional Environment, Berkeley, CA
Amount: 0

External Scholarly Fellowships/National Review Committee:
Rochester Chapter New Urbanism
Amount: 0

External Scholarly Fellowships/National Review Committee:
1/23/2016 - 5/10/2016
Rochester Community Design Center
Amount: 0

External Scholarly Fellowships/National Review Committee:
1/20/2015 - 3/20/2015
University of Florence, Italy
Amount: 0

External Scholarly Fellowships/National Review Committee:
11/1/2014 - 11/1/2015
Kuwait University
Amount: 15.000


MS IN SUSTAINABLE SYSTEMS

Eric Williams, Associate Professor


PHD IN SUSTAINABILITY

Callie Babbitt, Assistant Professor


Roger B Chen


Gabrielle Gaustad, Assistant Professor


**FEATURED FACULTY**

**GIOVANNA POTESTÀ** holds a master of architecture and a PhD in architecture and urban design. She has taught at the University of Florence, California State University Florence, Kent State University Florence and Kuwait University.

Her major research area is represented by studies and personal involvement in sustainable urban design. In 2000 she was granted a three-year research contract from the University of Florence aimed at the study of contemporary urban centralities. In the same period she had been consulting for the development of the FIAT area in Novoli. The development, one of the major urban renewal projects in Italy, included University buildings, commercial, offices, residential, and a park on a surface of 36 hectares. Giovanna Potesta consulted for the developer for the duration of the project (10 years) and co-designed two of the buildings.

In 2003 she was commissioned by the Aeronautic School of Florence a research featuring the architecture and historical conditions of their headquarters, a representative example of Italian Modernism. While teaching at Kuwait University Dr. Potesta worked on the transformation of urban setting of the region, cooperating with several institutions. She conducted a research on transitional process of commercial spaces, addressing in detail the typological and behavioral conditions that resulted from the model of the souk to the nowadays widely more popular model of the mall. This research, granted by Kuwait University received an award for excellence in research after an evaluation by an international peer review committee.

**GIOVANNA POTESTÀ**
Assistant Professor
Architecture
Golisano Institute for Sustainability


Thomas Trabold, Associate Professor


Eric Williams, Associate Professor


External Scholarly Fellowships/National Review Committee:
7/1/2016 - 7/31/2016
Japanese Society for the Promotion of Science
Amount: $7000 *

RESEARCH CENTERS

Nabil Nasr, Professor


Nenad Nenadic, Research Associate Professor


Mark Walluk

BIOMEDICAL ENGINEERING

Jennifer L Bailey


Behnaz Ghoraani, Assistant Professor


REGINALD ROGERS RECEIVED HIS M.S. FROM NORTHEASTERN UNIVERSITY, AND HIS PH.D. FROM THE UNIVERSITY OF MICHIGAN. HIS RESEARCH AT THE UNIVERSITY OF MICHIGAN FOCUSED ON THE FUNDAMENTAL UNDERSTANDING OF PARTICLE INTERACTION POTENTIALS FOR POTENTIAL APPLICATIONS INCLUDING PHOTONICS.

Water is at the heart of many of the technologies used in society today. Whether it is for drinking supplies or serving as a material for agricultural purposes, the need for water is a constant. With the rise in the human population, however, the need for accessible clean water is a growing concern. Many sources have been overrun with pollutants that are harmful to humans and animals. Technologies to purify water have grown in number, but the rates at which new pollutants have emerged are starting to outweigh the utility of these purification systems. As such, new opportunities for developing materials for increasing the accessibility of clean water continue to be at the forefront of research.

Reginald Rogers currently has several projects which focus on developing novel nanomaterials to help improve the removal of contaminants from aqueous systems. His research group, the Nanoscale Energy and Separations Materials Lab (NESML), has a dedicated focus on the use of carbon nanomaterials for adsorption applications. His group has been able to develop a hybrid graphene-carbon nanotube freestanding paper demonstrating a 25% improvement in the adsorption uptake of organic and metallic compounds from water and has been featured in Nanoscale and ACS Applied Materials & Interfaces. To demonstrate the “green” nature of this hybrid adsorbent, NESML has been able to show that higher adsorption efficiencies are attainable with modest thermal and microwave treatments. This work was highlighted in Environmental Science: Nano. In addition, Reginald’s group has demonstrated the use of carbon nanotube adsorbents in continuous flow fixed bed system, which is typically how adsorption is completed due to its efficient nature.

Beside environmental applications, Reginald also has a focus on energy applications. Currently, his research group is developing next generation cathode materials for sodium-ion batteries. This research is in collaboration with Army Research Laboratory.

REGINALD ROGERS
ASSISTANT PROFESSOR
DEPARTMENT OF CHEMICAL ENGINEERING
THE KATE GLEASON COLLEGE OF ENGINEERING


Blanca H Lapizco-Encinas, Associate Professor


Cristian A Linte, Assistant Professor


CHEMICAL ENGINEERING

Brian Landi, Associate Professor


Christian Richter, Assistant Professor


Reginald E Rogers, Assistant Professor


Steven Weinstein, Professor


**COMPUTER ENGINEERING**

**Reza Azarderakhsh, Assistant Professor**


Published Conference Proceedings: Kerma-


External Scholarly Fellowships/National Review Committee: 4/1/2015 - 3/31/2017 National Science Foundation Amount: 174,500 *

External Scholarly Fellowships/National Review Committee: 4/1/2015 - 3/31/2017 National Science Foundation (REU) Amount: 16,000 ≠


External Scholarly Fellowships/National Review Committee: 5/14/2015 - 5/16/2015 National Science Foundation (Panelist) Amount: 0

Published Conference Proceedings: Kerma-

Published Conference Proceedings: Kerma-


Juan Cockburn, Associate Professor

External Scholarly Fellowships/National Review Committee:
9/1/2015 - 6/30/2016
Institute for Mathematics and its Applications, Minneapolis, MN
Amount: 46750

Dhireesha Kudithipudi, Associate Professor


Andres Kwasinski, Associate Professor


Marcin Lukowiak, Associate Professor


Published Conference Proceedings: Skalicky, Samuel, et al. "Designing Customized ISA Processors using High Level Synthesis." Proceedings of the ReConFig. Ed. ReConFig. Cancun, Mexico: IEEE, Web. *


Raymond W Ptucha, Assistant Professor


Andreas Savakis, Professor


Shanchieh Yang, Associate Professor


ELECTRICAL AND MICROELECTRONIC ENGINEERING

Amitabha Ghosh, Professor


Santosh Kurinec, Professor


Mehran Mozaffari Kermani, Assistant Professor


Eli Saber, Professor


Andreas Savakis, Professor


Boutheina K Tlili


Gill Tsouri, Associate Professor


External Scholarly Fellowships/National Review Committee:
Google
Amount: $370,000
INDUSTRIAL AND SYSTEMS ENGINEERING

Ron Aman, Assistant Professor


Denis Cormier, Professor


Marcos Esterman, Associate Professor


Scott Grasman, Professor


Michael Kuhl, Professor


Katie T McConky


Ruben Proano, Assistant Professor


Rachel T Silvestrini, Associate Professor


Brian Thorn, Associate Professor


MECHANICAL ENGINEERING

Wael Abdel Samad


Margaret Bailey, Professor


Stephen Boedo, Professor


Steven Day, Associate Professor


**Alfonso Fuentes Aznar**


**Hany Ghoneim, Professor**


**Amitabha Ghosh, Professor**


**Mario Gomes, Assistant Professor**

**Invited Keynote/Presentation:** Gomes, Mario W. "Nearly Collisionless Motion for an Inertia-Coupled Rimless Wheel (+hardware)." Dynamic Walking 2015. Dynamic Walking. Columbus, OH. 21 Jul. 2015. Conference Presentation. *


Patricia Iglesias Victoria, Assistant Professor


Ghalib Kahwaji


Satish Kandlikar, Professor


Kate N Leipold


Rui Liu, Visiting Assistant Professor


Risa Robinson, Professor


Benjamin Varela, Associate Professor


**P Venkataraman, Associate Professor**


**Wayne Walter, Professor**


**MICROSYSTEMS ENGINEERING**

**Parsian Katal Mohseni**


**Zhaolin Lu, Associate Professor**


ACADEMIC AFFAIRS

Marianne Gustafson, Professor


AMERICAN SIGN LANGUAGE AND INTERPRETING EDUCATION

Kathryn Schmitz, Associate Professor


Kim Kurz, Assistant Professor


FEATURED FACULTY

RAJA S. KUSHALNAGAR ASSISTANT PROFESSOR IN THE SCIENCE AND MATHEMATICS DEPARTMENT AT NATIONAL TECHNICAL INSTITUTE FOR THE DEAF, FOCUSES ON ACCESSIBLE COMPUTING RESEARCH FOR PEOPLE WITH SENSORY DIFFERENCES.

Accessible computing investigates the use of computing systems and devices and their use by persons with disabilities. Personal computing devices have become pervasive, essential tools for consumers within a decade. The use and interaction with these devices poses both opportunities and challenges for people with sensory differences, including those with age-related differences in hearing and vision. These personal computing devices have the potential to foster inclusiveness in daily life by assisting people with sensory differences via accessible interfaces and interaction, for example through speech-to-text or wayfinding applications. Dr. Kushalnagar’s research focuses on two issues: first, identifying how people with sensory disabilities use typical computing devices and the challenges in using these devices, and second, in addressing these challenges by developing accessible personal computing devices.

Dr. Kushalnagar’s findings in how people with sensory differences perceive and use devices and programs has led to design guidelines to make products more inclusive. For instance, deaf student viewers prefer few lines inset into the video, while hearing student viewers prefer more lines, next to the video. He is passionate in mentoring NTID supported students by involving them in his research as researchers, developers and consumers in accessible computing research projects. The projects provide a hands-on, applied research environment, similar to modern corporate research lab environments, in that the students analyze and solve real-world accessibility challenges in an interdisciplinary and team-oriented setting. The students also broaden their research perspectives by immersing themselves in a diverse ability environment, by bringing together students and mentors with and without sensory differences. Dr. Kushalnagar has supervised over 40 students, on research projects ranging from optimizing use of speech-to-text applications for hard of hearing consumers, or development of closed interpreting interfaces for deaf signers. He has also served as an accessibility chair on several conferences, and has led multiple captioning challenges to provide evaluation and validation of captioning research projects in the wild.

RAJA KUSHALNAGAR
ASSISTANT PROFESSOR
SCIENCE AND MATHEMATICS
NATIONAL TECHNICAL INSTITUTE FOR THE DEAF

FACULTY SCHOLARSHIP REPORT 2015


Jason D Listman, Assistant Professor


Campbell A McDermaid, Assistant Professor


**ART AND IMAGING STUDIES**

**Paula Grcevic, Professor**


**ASLIE - RESEARCH**

**Robyn D Dean**


**BUSINESS STUDIES**

**Tracy H Magin, Senior Lecturer**

**Charlotte L Thoms, Associate Professor**


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**COMMUNICATION STUDIES AND SERVICES**

**Catherine Clark, Associate Professor**


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**Linda Gottermeier, Associate Professor**

**Grants:** Gottermeier, Linda, Bryan Hensel, and Nisha Cerame (2015-2016). Refurbishing of the NTID Audiology Center. Grant received/funded by Daisy Marquis Jones, Daisy Marquis Jones. *


**Grants:** Gottermeier, Linda (2015-2016). Oticon People First Research. Grant received/funded by Oticon USA, Oticon USA. ˜


CULTURAL AND CREATIVE STUDIES

Erin Auble, Lecturer


Joseph Bochner, Professor


Patricia A Durr, Associate Professor


Aaron W Kelstone, Senior Lecturer


**Deirdre Schlehofer, Assistant Professor**


**Grants:** Schlehofer, Deirdre, et al (2014-2016). Health Literacy of Deaf and Hearing Female Students: A Qualitative Study. Grant received/funded by Scholarship Professional Development Initiatives (SPDI), NTID.


**J Matt Searls, Associate Professor**


ENGINEERING STUDIES

Pamela M Berkeley


LIBERAL STUDIES

Gerald Berent, Professor


Pamela Conley, Associate Professor


Jessica Cuculick, Assistant Professor


Matthew W Dye


Kathleen Eilers-crandall, Associate Professor


Pamela Kincheloe, Associate Professor


LIBERAL STUDIES - RESEARCH

Ila Parasnis, Professor


Vincent J Samar, Associate Professor


MSSE

Christopher Kurz, Associate Professor


Jessica W Trussell


MSSE - RESEARCH

Carol De Filippo, Professor


**Manuscripts Submitted for Publication:** Gottermeier, Linda G., Carol De Filippo, and Catherine Clark. "Bimodal Stimulation Following Long-term Unilateral CI Use: Are We Employing the Standard of Care?" 21 Sep. 2015. TS - typescript (typed).

Ronald Kelly, Professor


Christopher Kurz, Associate Professor


Ila Parasnis, Professor


Sara Schley, Associate Professor


Michael Stinson, Professor


Manuscripts Submitted for Publication:

OFFICE OF THE PRESIDENT

Marc Marschark, Professor


**Invited Keynote/Presentation:** Marschark, M. "Language, Cognition, and Mental Health in Deaf Children." NA. National Center for Hearing and Mental Health. Oslo University Hospital, Norway. 22 Sep. 2015. Address.


SCIENCE AND MATHEMATICS

Austin Gehret, Assistant Professor


Bonnie Jacob, Assistant Professor


Keith Mousley, Associate Professor


Jason T Nordhaus, Assistant Professor


Todd Pagano, Associate Professor


Grants: Robinson, Risa, Todd Pagano, and Irfan Rahman (2015-2016). Emission Aerosol Constituents and Comparative Toxicology of E-cigarettes with Flavorings. Grant received/funded by NIH-R01, NIH. *


Vicki Robinson, Associate Professor


Annemarie Ross, Associate Professor


David C Templeton, Associate Professor

AMERICAN UNIVERSITY IN KOSOVO

Albina Balidemaj


RIT CROATIA

Besim Agusaj


Iva Bacic


Kristijan Tabak


RIT DUBAI

Gurdal Ertek


Charalampos (HARRY) Manifavas


Mohamed A Samaha


HARRY MANIFAVAS is an Associate Professor in the Electrical Engineering and Computing Sciences Department at RIT Dubai. He received his PhD from the University of Cambridge in 2002 and his work focuses on various topics pertaining to cryptography, network and information systems security.

His research interests include lightweight cryptographic primitives, security metrics, security composition, embedded systems security and dependability and the challenges that arise with the wider adoption of ambient intelligence and ubiquitous computing applications. Such challenges also include the various privacy and trust issues that must be addressed in the context of the Internet of Things and ubiquitous smart infrastructures, as well as the pertinent security management issues. He has participated as technical coordinator or senior security engineer in a number of EU-funded research projects.

He currently concentrates his research efforts on the security of real-time embedded and cyber-physical systems that become increasingly important, following the growing trend of adopting pervasive computing in the context of industrial and critical infrastructure applications. A number of questions need to be answered when highly distributed and connected embedded technologies, with various dynamics and unpredictable behavior, must satisfy multiple critical constraints, including safety, security, power efficiency, high performance, low latency, size and cost. New methods and tools for cyber-physical systems and systems of systems need to emerge that will ensure adaptability, scalability, complexity management, security and safety, and provide trust to humans in the loop. Work is already underway in this area, driven by industrial needs, in collaboration with large companies and SMEs.

HARRY MANIFAVAS
ASSOCIATE PROFESSOR
ELECTRICAL ENGINEERING AND COMPUTING SCIENCES
RIT DUBAI