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RIT is now ranked among the best and brightest of the nation’s universities. The Carnegie Classification of Institutions of Higher Education moved RIT to a doctoral university status in 2016, due to the rapidly growing number of Ph.D. degrees awarded each year.

This comes as no surprise to the faculty and students engaged in research, pedagogical undertakings and scholarly activities at RIT. The scholarly efforts within this report continue to have a profound impact within our local communities, the industries we collaborate with, and the world. This 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.

The growth of our research and scholarship is guided by our vision for the future, where imagination and the application of interdisciplinary skills will place our faculty and our students at the forefront of the global economy. The ever-growing body of research, scholarship and creative works generated by our faculty benefits our students, our programs, and our industry partners in a multitude of ways. Our recent progress is a clear indicator that we are moving ever closer to our vision of making RIT a pre-eminent student-centered research university.

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 2016.

JEREMY HAEFNER, PH.D.
Provost and Senior Vice President for Academic Affairs
Rochester Institute of Technology
Reynold J Bailey, Associate Professor


Hans-Peter Bischof, Professor


Zachary Butler, Associate Professor

Matthew Fluet, Assistant Professor


Joe Geigel, Professor


Edith Hemaspaandra, Professor


Christopher M Homan, Associate Professor


MATT HUENERFAUTH IS AN ASSOCIATE PROFESSOR IN THE DEPARTMENT OF INFORMATION SCIENCES AND TECHNOLOGIES IN THE GOLISANO COLLEGE OF COMPUTING AND INFORMATION SCIENCES.

His research spans human computer interaction and natural language processing, and he is the editor-in-chief of the leading journal in his field of computer accessibility for people with disabilities. He has secured over $2.5 million in research funding, including a National Science Foundation CAREER Award in 2008.

His laboratory includes both deaf and hearing students; they conduct projects investigating the design of linguistic technologies to benefit people who are deaf or hard-of-hearing.

Animations of American Sign Language (ASL): While many members of the Deaf Community prefer to receive information in the form of ASL, providing ASL on the web has been a challenge because videos of humans are difficult to update and maintain. Huenerfauth’s team is developing software to convert an easy-to-update script of an ASL sentence into a computer animation. By modeling the way that humans move during ASL (from motion-capture recordings his team has collected), their technology can produce more realistic animations of ASL, which they evaluate in studies with deaf participants.

Educational Tools for ASL Students: Huenerfauth’s lab is creating a tool that would allow students who are learning ASL to practice their signing skills by performing ASL into a Kinect video camera, and the software would automatically provide feedback on their signing, to indicate when they have performed specific linguistic elements or common errors.

Automatic Captioning for Meetings: In collaboration with NTID researchers, Huenerfauth’s lab is investigating how automatic speech recognition technology could be used to produce captions automatically for one-on-one or small-group meetings between deaf and hearing participants. His team is examining how to improve the accuracy of these captions and how to indicate which words in the output are more trustworthy.

Matt Huenerfauth
Associate Professor
Golisano College of Computing and Information Sciences


Alan Kaminsky


Mohan J Kumar, Professor


Minseok Kwon, Associate Professor


Cristian A Linte, Assistant Professor


Xumin Liu, Assistant Professor


**Published Conference Proceedings:** Cimmino, Andrea, Carlos R. Rivero, and David Ruiz. "Improving Link Specifications using Context-Aware Information." Proceedings of the LDOW@WWW. Ed. ?. Montreal, -: n.p., Web. *


**Published Conference Proceedings:** Cimmino, Andrea, Carlos R. Rivero, and David Ruiz. "Improving Link Specifications using Context-Aware Information." Proceedings of the LDOW@WWW. Ed. ?. Montreal, -: n.p., Web. *

**Published Game, Application or Software:** Davila, Kenny, et al. Tangent 0.3.1. Software. Publicly released prototype (available online). 2016.


DEPARTMENT OF COMPUTING SECURITY

Daryl G Johnson, Associate Professor


Matthew K Wright


INFORMATION SCIENCES AND TECHNOLOGIES

Daniel Ashbrook, Assistant Professor


Dan Bogaard, Associate Professor


Charles Border, Associate Professor

Vicki L Hanson, Professor


**Invited Keynote/Presentation:** Hanson, Vicki L. "Advancing Computing as a Science and a Profession." RIT Brick City. RIT. Rochester, NY. 14 Oct. 2016. Address. ∆

**Invited Keynote/Presentation:** Hanson, Vicki L. "Computing for Humans." FemmeTech - University of North Carolina Charlotte. ACM Distinguished Speaker Series. Charlotte, NC. 1 Apr. 2016. Guest Lecture. ∆


**Invited Keynote/Presentation:** Hanson, Vicki L. "ACM President’s Address." China National Computing Congress 2016. CCF (Chinese Computing Federation). Taiyuan, China. 20 Oct. 2016. Address. ∆

**Invited Keynote/Presentation:** Hanson, Vicki L. "ACM President’s Welcome." SIGGRAPH Asia. ACM. Macao, Macao. 6 Dec. 2016. Address. ∆

**Invited Keynote/Presentation:** Hanson, Vicki L. "ACM President's Welcome." SIGGRAPH Asia. ACM. Macao, Macao. 6 Dec. 2016. Address. ∆


Bruce Hartpence, Associate Professor


Lawrence W Hill, Associate Professor


Edward Holden, Associate Professor


Matt Huenerfauth, Associate Professor


External Scholarly Fellowships/National Review Committee:

6/1/2016 - 5/31/2017
NSF AdvanceRIT Connect Grants Program
Amount: 4620
≠


Jai W Kang, Associate Professor


Deborah M LaBelle, Lecturer


Peter H Lutz, Professor


Brian Tomaszewski, Assistant Professor


External Scholarly Fellowships/National Review Committee:

11/21/2016 -
11/22/2016

National Science Foundation - Office of International Science & Engineering (OISE) - Review Panel

Amount: $3000


Ronald P Vullo, Associate Professor


Elissa Weeden, Associate Professor


Qi Yu, Associate Professor


Steve Zilora, Associate Professor


PHD PROGRAM

Rui Li


Pengcheng Shi, Professor


Linwei Wang, Assistant Professor


SCHOOL OF INTERACTIVE GAMES AND MEDIA

John A Biles, Professor


Adrienne Decker, Assistant Professor


External Scholarly Fellowships/National Review Committee:
9/1/2016 - 8/31/2021
National Science Foundation
Amount: 965,085
≠

Owen A Gottlieb, Assistant Professor


W Michelle Harris, Associate Professor


Charles D Roberts


David Schwartz, Associate Professor


SOFTWARE ENGINEERING

Yasmine Elglaly


Mohamed Wiem Mkaouer

CIVIL ENGINEERING TECHNOLOGY,
ENVIRONMENTAL MANAGEMENT AND SAFETY

Amanda Bao, Assistant Professor


Md Abdullah al Faruque, Assistant Professor


Drew Maywar, Assistant Professor


Jennifer Schneider, Professor


Maureen S Valentine, Professor


Scott B Wolcott, Professor


ELECTRICAL, COMPUTER AND TELECOMMUNICATIONS ENGINEERING TECHNOLOGY

Miguel Bazdresch, Assistant Professor


SUNGYOUNG KIM IS AN ASSISTANT PROFESSOR IN THE DEPARTMENT OF ELECTRICAL, COMPUTER, AND TELECOMMUNICATION ENGINEERING TECHNOLOGY.

His research focuses on developing a human-centric audio system that immerses listeners with realistic auditory environments through collaboration with Yamaha Corporation Japan.

He has focused on engaging undergraduate and master students in research. With funding from Yamaha Corporation, he has conducted subjective evaluation to determine salient factors associated with an enjoyable listening environment. In collaboration with Professor Richard King in McGill University (Canada) and Professor Toru Kamekawa, they investigated the cross-cultural influence on listeners in a virtual auditory environment. Through experiments conducted in three countries, they found semantic differences influenced by cultural background of the listener groups. The results were published in Virtual Reality Journal.

His research interests include enjoyable auditory environment based on a multichannel audio system, virtual reality audio, rehabilitation of listening experience, auditory training, cross-cultural comparison of listening experience and virtual acoustics. He wrote the Surround Sound with Height Channel chapter in the first edition of the Immersive Audio (Focal Press). Prior to joining RIT, Dr. Kim worked for Korean Broadcasting System (KBS) as a recording engineer where he produced CDs and for Yamaha Corporation as a research associate where he researched human-factors for music and listening experiences. His doctoral dissertation dealt with “Influence of musical context on listeners’ preference for multichannel-reproduced piano music.”

Sungyoung Kim
Associate Professor
College of Applied Science & Technology

Mark J Indelicato, Associate Professor


SungYoung Kim, Assistant Professor

External Scholarly Fellowships/National Review Committee:

1/1/2016 -
7/31/2017
Yamaha Corporation
Amount: $11,230
≠

External Scholarly Fellowships/National Review Committee:

7/1/2016 -
12/31/2016
Revolabs Inc.
Amount: $4,999
≠


Drew Maywar, Assistant Professor


Yu-Chin J Hsieh


Muhammet Kesgin, Assistant Professor


MANUFACTURING AND MECHANICAL ENGINEERING TECHNOLOGY

Martin K Anselm, Assistant Professor


Betsy Dell, Associate Professor


Robert D Garrick, Associate Professor


Spencer Kim, Associate Professor


James H Lee, Assistant Professor


Christopher L Lewis


Larry U Villasmil, Associate Professor


PACKAGING SCIENCE

Carlos Diaz-Acosta, Assistant Professor


**Changfeng Ge, Associate Professor**


BIOMEDICAL SCIENCES

Cory A Crane, Assistant Professor


DIAGNOSTIC MEDICAL SONOGRAPHY

Hamad Ghazle, Professor


NUTRITION MANAGEMENT

Barbara A Lohse


37
Barbara Lohse is the Director of the Wegmans School of Health and Nutrition in the College of Health Sciences and Technology.

She completed her doctoral training in nutritional sciences and educational psychology at the University of Wisconsin-Madison. Prior to that she earned a Bachelor of Science degree in Biology and Chemistry from the University of Wisconsin-Eau Claire and a Master of Science degree in Foods and Nutrition from the University of Wisconsin-Stout. Before joining RIT she was a Research Professor at The Pennsylvania State University and Principal Investigator of the Supplemental Nutrition Assistance Program Education for the State of Pennsylvania.

Dr. Lohse’s early career research focused on nutrition education strategies for healthcare professionals specifically examining problem-based learning as a nutrition education strategy. Her research with problem-based learning led to studying the use of technology to facilitate nutrition education delivery and evaluation. She demonstrated that online delivery of a nutrition course using e-mail was a feasible and effective nutrition education strategy. She created About Eating, an online program to promote weight management and healthful eating for low-income persons and general audiences. Dr. Lohse created theory-based scripts about multiple nutrition topics (e.g., whole grains, dental health, diabetes prevention), then collaborated with graphic designers to create short programs, ne/Frames for display on digital photo receivers and other screens in waiting areas and other public venues. She produced the adaptation of Mealtime is Family Time, an ne/Frames program focused on the importance of mealtime for families with preschool age children, into a mobile app and incorporated it into her early childhood education curriculum, NEEDs for Tots. To assess NEEDs for Tots effectiveness, Dr. Lohse has led the development, evaluation, and definition of an instrument that can evaluate and diagnose child feeding issues important for child growth and health.

Dr. Lohse’s greatest contribution to science is the exploration and definition of eating competence, an intra-individual approach to food and eating that entrains positive bio-psychosocial outcomes. Dr. Lohse has led the research that identified an instrument with construct validity to measure eating competence and in doing so has been able to show that eating competence is a proxy for a global measure of health. Her studies have revealed eating competence to be associated with many public health goals. The Eating Competence Inventory has been translated into 6 languages and been used in research in 8 countries on 3 continents and 17 states in America.

Barbara Lohse  
Director of the Wegmans School of Health and Nutrition  
College of Health Sciences and Technology
FACULTY SCHOLARSHIP REPORT 2016

Peer Reviewed/Juried Poster Presentation:

Peer Reviewed/Juried Poster Presentation:

Invited Keynote/Presentation:

Peer Reviewed/Juried Poster Presentation:

Invited Keynote/Presentation:

PHYSICIAN ASSISTANT

John B Oliphant, Assistant Professor


SCHOOL FOR AMERICAN CRAFTS

Robin Cass, Professor


Alan D Singer, Professor


SCHOOL OF ART

Elizabeth Kronfield, Associate Professor


Sarah E Thompson, Assistant Professor


SCHOOL OF DESIGN

Deborah A Beardslee, Associate Professor


Nancy A Bernardo, Assistant Professor


National/International Competition Award Winner: Bernardo, Nancy. Society of Typographic Arts. STA 100. Chicago, IL, 2016. *


Nancy A Ciolek, Associate Professor


Shaun C Foster, Assistant Professor


Mary E Golden


Chris Jackson, Professor

DAVID LONG IS THE PROGRAM CHAIR AND ASSOCIATE PROFESSOR FOR THE BACHELOR OF SCIENCE MOTION PICTURE SCIENCE PROGRAM IN THE COLLEGE OF IMAGING ARTS AND SCIENCES.

He completed his BS in Chemical Engineering from the University of Texas at Austin, an MS in Materials Science from the University of Rochester, and a PhD in Color Science from Rochester Institute of Technology.

His research in motion picture science, focuses on the crossover between physics and psychology viewers experience when they are subjected to cinema and television displays. For over a century, motion pictures were distributed via film in theaters at 24 still frames per second or via analog video technology on televisions at 30 or 60 frames per second. Specifically, the human perception of reproduced color and apparent motion were consistent and fairly well understood for each system. But future systems are rapidly breaking the old rules. Rather than color being formed by the layering of cyan, magenta and yellow dyes on a piece of film or glowing red, green and blue phosphors on a CRT television screen, new digital displays are increasingly using advanced photonic systems based on lasers, LED and quantum dots. Further, they are capable of providing image refresh rates well above 24 or 60 fps.

But the eye and mind react to these new systems differently than they did to the old. Laser light engines used in projectors promise a greatly increased palette of colors for the screen but they exacerbate natural variability in human color vision. This means individuals will actually interpret the colors in a movie differently based on their own unique physiology. In a marketplace where images and colors on the screen are meticulously controlled by artists, this variability of experience is a big concern. And emerging trends in higher framerate delivery also impact perception, as we learned when Peter Jackson released The Hobbit in 48 fps to theaters. High framerates are known to make images appear sharper and more realistic. But cinema audiences also associate this imagery with cheap or fake production quality, likening it to soap operas or video games. In motion picture science, we work to fully understand the influence of these engineering decisions on human perception in the movies.

David Long
Program Chair and Associate Professor
College of Imaging Arts and Sciences
Alex Lobos, Assistant Professor


Josh K Owen, Professor


Adam Smith


SCHOOL OF FILM AND ANIMATION

Cathleen Ashworth, Associate Professor


National/International Competition Award Winner: Ashworth, Cathleen. Indianer Inuit Film Das Nordamerika Film Festival. Best Animated Film - Iroquois Creation Story. Stuttgart, Germany, 2016.


**National/International Competition Award Winner:** Ashworth, Cathleen. Bare Bones International Film and Music Festival. Best Animated Film - Iroquois Creation Story. Muskogee, OK, 2016.


**National/International Competition Award Winner:** Ashworth, Cathleen. Buffalo Niagara International Film Festival. Best Animated Film - Iroquois Creation Story. Tonawanda, NY, 2016.


**National/International Competition Award Winner:** Ashworth, Cathleen. Iroquois Creation Story. 16 Oct. 2016. Tulsa American Film Festival, Tulsa, OK. Exhibit.


**National/International Competition Award Winner:** Ashworth, Cathleen. 41st Annual American Indian Film Festival. Nominated for Best Animation. San Francisco, CA, 2016.


Jack A Beck


Mari J Blanchard


Thomas D Gasek, Associate Professor


David L Long, Associate Professor


Christopher Bondy, Visiting Assistant Professor


**Twyla Cummings, Professor**


**Bruce Myers, Assistant Professor**


**SCHOOL OF PHOTOGRAPHIC ARTS & SCIENCES**

**Rachel J Ferraro, Lecturer**


Gregory Halpern, Assistant Professor


Angela Kelly, Associate Professor


Laurie C O'Brien


Michael R Peres, Professor


Joshua J Thorson, Visiting Assistant Professor


Catherine Zuromskis


Laverne McQuiller, Associate Professor


DEPARTMENT OF COMMUNICATION

Ammina B Kothari, Assistant Professor


Hinda B Mandell, Assistant Professor


Jonathan Schroeder, Professor


Xiao Wang, Assistant Professor


Tracy Worrell, Associate Professor


**Invited Keynote/Presentation:** Worrell, Tracy R. "Focusing on effects: How does the portrayal of disability in the media impact individuals with said disabilities?" 20/20 Research in Focus. RIT. Rochester, NY. 12 Oct. 2016. Address.
Ammina Kothari is an Assistant Professor in Communication in the School of Communication in the College of Liberal Arts.

Trained as a journalist and media scholar, her research focuses on global communication and journalism practices with special focus on conflicts, health, gender, technology and religion. She is especially interested in understanding the processes which shape social and political discourses about conflicts, crises and health issues. She employs a range of qualitative and quantitative methods including in-depth interviews, textual, discourse and content analyses and structural equation modelling in her research.

She perceives Escher’s “Drawing Hands”—a lithograph in which hands sketch one another, as a metaphor for how her teaching and scholarship inspire and fuel each other. She strives to create a teaching environment that facilitates learning through construction of knowledge as a joint endeavor, de-emphasizing the distinction between teaching and learning. Many of the courses she has taught have followed from and given impetus to her research interests. She is currently working on one grant funded and two collaborative projects.

The project titled ‘UK Media Coverage of the Syrian Humanitarian Crisis,’ funded by Association for Education in Journalism and Mass Communication’s Emerging Scholar grant focuses on media’s coverage of the Syrian civil war and the resulting humanitarian crisis. Drawing on framing and gatekeeping theories, the study investigates how the British media have been framing the Syrian crisis and what gatekeeping factors influence journalists in their reporting. A framing analysis of stories published by BBC, The Guardian, The Independent and ITV is complemented by interviews with journalists. I am also working on a collaborative project titled “Setting the Agenda on Immigration: Media Coverage of Primary Presidential Debate” which focuses on content analysis of the Fox News Republican Debate’s coverage by Fox News, CNN, The Washington Post, The Wall Street Journal, Politico and The Hill. The focus is on identifying news organizations that played a leading role in signaling to other media outlets what issues, figures, and attributes related to immigration were important to report on. The second collaborative project titled “Teaching Journalism in a Post-Truth Age” examines how journalism educators are revising their curriculum to address both changes brought by the automation of storytelling through algorithms and bots, and the post-truth political environment. We are surveying an international sample of journalism faculty and students to compare how both groups perceive and believe they should respond to threats to objectivity, transparency, and fact-checking in the journalism field.

Ammina Kothari
Assistant Professor
College of Liberal Arts
Department of Criminal Justice

Irshad Altheimer, Associate Professor

John McCluskey, Professor

Tony Smith, Associate Professor

Department of Economics

Amit Batabyal, Professor


Bharat Bhole, Associate Professor


Nikolaus Kasimatis


Eddery Lam


Michael J Vernarelli


Jeffrey Wagner, Professor


DEPARTMENT OF ENGLISH

Cecilia Alm, Assistant Professor


A.J. Caschetta, Senior Lecturer


---


Katherine E Morrissey


Laura A Shackelford, Associate Professor


DEPARTMENT OF FINE ARTS

Elizabeth Goins, Associate Professor


**DEPARTMENT OF HISTORY**

**Tamar Carroll, Assistant Professor**


**Rebecca Edwards, Professor**


**Joseph Henning, Associate Professor**


**Michael S Laver, Associate Professor**


**Rebecca Scales, Assistant Professor**

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

6/01/2016 - 8/15/2016
American Philosophical Society, Franklin Research Grant
Amount: 6000.00
≠


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

6/1/2016 - 8/31/2016
Franklin Research Grant, American Philosophical Society
Amount: $6000
≠

Corinna Schlombs


Nikolina Bozinovic


DEPARTMENT OF MODERN LANGUAGES AND CULTURES

DEPARTMENT OF PERFORMING ARTS AND VISUAL CULTURE

Juilee Decker, Associate Professor


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**DEPARTMENT OF PHILOSOPHY**

**Silvia Benso, Professor**

**Invited Keynote/Presentation:** Benso, Silvia. ""Gardening with Martin while Interpreting Greek Poiesis"." Society for Phenomenology and Existential Philosophy. Utah Valley University. Salt Lake City, UT. 21 Oct. 2016. Conference Presentation. «


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**Michael E Ruhling, Professor**


**Evelyn Brister, Associate Professor**


**Peer Reviewed/Juried Poster Presentation:** Brister, Evelyn. "Citation Rates and Gender in Philosophy of Science." Proceedings of the Philosophy of Science Association. Ed. PSA. Atlanta, GA: n.p..

**Brian Schroeder, Professor**


**DEPARTMENT OF PSYCHOLOGY**

**Joseph S Baschnagel, Associate Professor**


**Caroline M DeLong, Associate Professor**


**Lindsay S Schenkel, Associate Professor**


**Tina M Sutton**


**DEPARTMENT OF POLITICAL SCIENCE**

**Lauren Hall, Assistant Professor**


**Katie Terezakis, Associate Professor**


**DEPARTMENT OF PSYCHOLOGY**

**Joseph S Baschnagel, Associate Professor**


**Caroline M DeLong, Associate Professor**


**Lindsay S Schenkel, Associate Professor**


**Tina M Sutton**


**DEPARTMENT OF SCIENCE TECHNOLOGY AND SOCIETY/PUBLIC POLICY**

**M Ann Howard, Professor**


**Christine Keiner, Associate Professor**


**Hang R Na**


**Erinn Ryen**


**DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY**

**Conerly Casey, Associate Professor**


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

8/1/2017 - 7/31/2018
Cornell University, Society for the Humanities
Amount: $50,000.00

**Kijana Crawford, Associate Professor**


**Benjamin N Lawrance, Professor**


**Uli Linke, Professor**


**Christine Kray, Associate Professor**


**William D Middleton, Associate Professor**


Michael G Coleman, Assistant Professor


Nathan C Eddingsaas, Assistant Professor


Christopher Kanan


Jeffrey L Mills, Lecturer


Grover Swartzlander, Associate Professor


**COLOR SCIENCE**

**Mark Fairchild, Professor**

CHARLES BACHMANN IS THE FREDERICK AND ANNA B. WIEDMAN CHAIR AND ASSOCIATE PROFESSOR IN THE CHESTER F. CARLSON CENTER FOR IMAGING SCIENCE.

His research focuses on remote sensing, especially hyperspectral imaging in the coastal zone and desert environments. Topics such as radiative transfer models, and their inversion to retrieve geophysical and biophysical parameters from spectral imagery of the Earth’s surface, constitute key areas. In addition to these physical models, Bachmann also studies more abstract data-driven models based on manifold and graph representations of high-dimensional spectral imagery data, an area in which he holds one of his two US patents. He is deeply involved in calibration and model validation studies in both laboratory and field settings in a variety of applications.

Remote Sensing of the Earth’s surface from airborne and satellite imaging systems provides a vast wealth of information useful in a wide range of applications from the environment and agriculture to defense. Spectral imaging, in particular, has become a key tool in these applications because it provides diagnostic information about composition and abundance of materials in each image pixel. Bachmann has developed novel instrumentation that helps validate models for retrieval of geophysical and biophysical parameters from hyperspectral imaging systems, which image the Earth’s surface in hundreds of wavelengths of light simultaneously. Bachmann has developed two generations of a first-in-class hyperspectral goniometer: the Goniometer of the Rochester Institute of Technology (GRIT) and GRIT-Two (GRIT-T). Goniometers characterize the angular dependence of the spectrum of light reflecting off, for example, the Earth’s surface - information critical to retrieving many important geophysical parameters. These unique instruments can be used in both laboratory and field settings, such as the joint Algodones Dunes experiment in March 2015 conducted jointly by the NASA Goddard Lidar Hyperspectral and Thermal (G-LiHT) sensor team, Bachmann’s RIT research group, and several university partners.

Bachmann maintains active collaborations with universities, government laboratories, international partners, and is delighted to be part of the vibrant research environment of the Digital Imaging and Remote Sensing Laboratory in CIS. More details of Bachmann’s research can be found at https://www.cis.rit.edu/faculty-and-staff/profile/cmbpci.

Charles Bachmann
Frederick and Anna B. Wiedman Chair and Associate Professor
College of Science


Susan Farnand, Visiting Assistant Professor


Michael J Murdoch


SCHOOL OF CHEMISTRY AND MATERIALS SCIENCE

Jeremy A Cody, Associate Professor


Michael G Coleman, Assistant Professor


Christopher Collison


Nathan C Eddingsaas, Assistant Professor


Lea Michel, Assistant Professor


Casey W Miller, Associate Professor


Jeffrey L Mills, Lecturer


Suzanne O’Handley


Michael Pierce, Assistant Professor


N Rao, Research Professor


John-David R Rocha, Assistant Professor


Kalathur S Santhanam, Professor


**Hans F Schmitthenner, Lecturer**


**Gerald Takacs, Professor**


**Scott Williams, Professor**


Nathaniel S Barlow, Assistant Professor


Elizabeth Cherry, Associate Professor


Michael E Cromer, Assistant Professor


Raluca Felea, Associate Professor


Baasansuren Jadamba, Assistant Professor


Steven LaLonde

Laura M Munoz, Assistant Professor


Darren A Narayan, Professor


David Ross, Professor


John Whelan, Associate Professor


SCHOOL OF PHYSICS AND ASTRONOMY

Mishkatul Bhattacharya, Assistant Professor


Seth Hubbard, Associate Professor

**Full Length Book:** Hubbard, S. PV from Fundamentals to Applications. 10 ed. Chichester, United Kingdom: Wiley, 2016. Print. *


Jeyhan S Kartaltepe


**Invited Article/Publication:** Craig, Paul A., Michael Kotlarchyk, and Sophia Maggelakis. "Everybody Counts or Nobody Counts: Moving Toward a More Inclusive Environment for Students, Staff, and Faculty." The Department Chair. (2016). Print. ∆


**Aaron McGowan, Lecturer**


**David Merritt, Professor**


**Christopher O'Dea, Research Professor**


Michael Pierce, Assistant Professor


Michael Richmond, Professor


Andrew Robinson, Professor


Robert B Teese, Professor


George Thurston, Professor


Gregory J Trayling


Benjamin M Zwickl, Assistant Professor


**Thomas H. Gosnell School of Life Sciences**

**Sandra J Connelly, Assistant Professor**


**Maureen Ferran**


Peer Reviewed/Juried Poster Presentation:

Carmody K McCalley

Dina Newman, Assistant Professor


Michael Osier, Associate Professor

Susan Smith, Assistant Professor


Journal Editor: Pagano, Susan Smith, ed. 


Hyla Sweet, Associate Professor


Anna Tyler, Associate Professor


Leslie Kate Wright, Assistant Professor


ACCOUNTING

Qian Song, Assistant Professor


Ke-an Wu


Rong Yang, Associate Professor


DECISION SCIENCES

Sarah Geiss


A Erhan Mergen, Professor


ECONOMICS

Steven C Gold, Professor


FINANCE

Chun-keung Hoi, Professor


Archana Jain, Assistant Professor


Ashok J Robin, Professor


Hao Zhang, Assistant Professor


INTERNATIONAL BUSINESS

Zhi Tang, Associate Professor


MANAGEMENT

Richard DeMartino, Associate Professor


Sarah Geiss


RONG YANG IS AN ASSOCIATE PROFESSOR OF ACCOUNTING AT THE SAUNDERS COLLEGE OF BUSINESS.

She is an empirical researcher with publications in accounting, finance, and other business journals. She received her PHD in accounting and MBA in management from Rutgers State University of New Jersey. Before she joined the faculty of RIT in the Fall of 2012, she was a tenured associate professor at State University of New York at Brockport. She is published in a variety of academic journals such as Contemporary Accounting Research, Journal of Marketing, Journal of Accounting and Public Policy, Auditing: A Journal of Practice and Theory, Journal of Business Ethics, Review of quantitative finance and accounting, etc.

Dr. Yang’s primary research interests include the use of financial reporting information in capital markets, corporate governance, internal control quality, corporate social responsibility (CSR), analyst forecast performance, and corporate restructuring events. One of her articles (with Dr. Yaw Mensah, Rutgers University) was awarded the 2006 MBAA International McGraw-Hill/Irwin Distinguished Paper Award by the North American Accounting Society. In addition, another publication (with Dr. Beixin Lin, Montclair State University) was awarded the 2013 Bright Idea Award sponsored by the Stillman School of Business at Seton Hall University and the NJPRO Foundation, the public policy research affiliate of the New Jersey Business and Industry Association (NJBIA).

In collaboration with colleagues at RIT and other universities, some of Dr. Yang’s recent studies focus on earnings management, which means that corporations may make aggressive accounting treatments to manipulate financial reports. Dr. Rong Yang, along with co-authors, published articles in Contemporary Accounting Research (CAR), Auditing: A Journal of Practice and Theory (AJPT), and Journal of Business Ethics (JBE) about corporate earnings management strategies. In addition, she is currently working on several research projects related to audit pricing decisions and CSR disclosures.

Rong Yang
Associate Professor
College of Business

Sandra Rothenberg, Professor


MANAGEMENT INFORMATION SYSTEMS

Manlu Liu, Assistant Professor


Richard Mislan


Bryan A Reinicke


Yang Yu, Assistant Professor


MARKETING

Vincent M Landers, Assistant Professor


Rajendran S Murthy, Assistant Professor


ARCHITECTURE

Nana-Yaw A Andoh


Dennis A Andrejko


External Scholarly Fellowships/National Review Committee:
1/1/2015 - 12/30/2017
International Code Council (ICC) - ECIC Code Interpretation Committee
Amount: 0

J Chiavaroli, Professor


Giovanna Potesta


External Scholarly Fellowships/National Review Committee:
9/1/2016 - 8/31/2020
National Science Foundation
Amount: $991,925 ≠

External Scholarly Fellowships/National Review Committee:
1/1/2017 - 1/31/2018
Consumer Technology Association
Amount: $90,000 ≠

External Scholarly Fellowships/National Review Committee:
8/1/2016 - 5/31/2017
Staples Sustainable Innovation Lab
Amount: $36,148 ≠


ERIC WILLIAMS IS AN ASSOCIATE PROFESSOR IN THE GOLISANO INSTITUTE OF SUSTAINABILITY.

Eric Williams holds B.A. and PhD degrees in Physics. He has taught at Carnegie Mellon University and Arizona State University. His research focuses on modeling to inform policies supporting renewable and efficient energy technologies. His research is mainly supported by the National Science Foundation (NSF) and the Department of Energy (DOE).

One current NSF project, “Resolving the effects of heterogeneity and technological progress on carbon mitigation costs” is a collaboration with Eric Hittinger in CLA and Roger Chen in GIS. The research aims to understand how economic and carbon benefits of energy technology vary by household and location. The first paper in this area, published in 2016, examines patterns of television watching in the U.S. The analysis revealed enormous heterogeneity: 14% of the population watches 7.7 hours of television a day in contrast with a 50% group that watches 1.1 hours. An efficient television for the heavy watching group delivers more than seven times the energy savings. The research was covered in over 80 newspapers, including the Washington Post.

A second NSF project, “Understanding the Evolution of the U.S. Electricity Grid Taking into Account Uncertainty for Improved Management of Costs and Environmental Impacts”, is a collaboration with Eric Hittinger in CLA. The first work from this project, currently under review, examines the prospects for wind power to become cheaper. Results are that if the cost of wind power continues to decline according to historical trends, it will become broadly cost competitive with natural gas and coal electricity within the next two decades.

A third stream of research, supported by DOE, examines how to more efficiently deliver thermal comfort in commercial buildings. The 2016 article “Co-alignment of comfort and energy saving objectives for U.S. office buildings and restaurants” shows that a significant amount of energy is wasted undercooling or overheating office and restaurant spaces in the U.S. More intelligent management of heating and cooling systems has the potential to save money, reduce carbon and make people more comfortable. The work was covered in the media by United Press International and the trade magazine Utility Dive.

Eric Williams
Associate Professor
Golisano Institute of Sustainability
Journal Editor: Babbitt, Callie, ed. Clean Technologies and Environmental Policy. Associate Editor: Springer. 2016. Print.

Roger B Chen


Gabrielle Gaustad, Assistant Professor


Thomas Trabold, Associate Professor


Eric Williams, Associate Professor


External Scholarly Fellowships/National Review Committee:
3/1/2016 - 8/31/2017
Ellen Macarthur Foundation
Amount: $3000
*


External Scholarly Fellowships/National Review Committee:
7/1/2016 - 6/30/2019
National Science Foundation
Amount: $297,789.00
*

RESEARCH CENTERS

Nabil Nasr, Professor


**National/International Competition Award Winner:** Nasr, Nabil. APRA Asia-Pacific. The Most Influential Expert on Remanufacturing Award. Wuhan, China, N/A, 2016.


Mark Walluk

BIOMEDICAL ENGINEERING

Iris Asllani


Steven Day, Associate Professor


Thomas R Gaborski, Assistant Professor


Blanca H Lapizco-Encinas, Associate Professor


THOMAS GABORSKI is an assistant professor in the Department of Biomedical Engineering in the Kate Gleason College of Engineering.

He received his BS from Cornell University, and his PhD from the University of Rochester. His research is at the intersection of nanomaterials and life sciences. Nanomaterials hold significant promise for revolutionary improvements in manufacturing, transportation and healthcare.

Thomas Gaborski and his team are working with a specific type of nanomaterial – ultrathin porous membranes – to improve life science research and medical devices. His research group, the NanoBio Device Lab, is conducting work not just on the application of nanomaterials, but also their discovery and scale-up. Nanomanufacturing research is critical because many new material discoveries are not easily transferred to traditional industrial and manufacturing processes leaving these discoveries to lie fallow in researchers’ laboratories.

The development of laboratory physiological barrier models such the vascular wall, intestine or lung is major area of interest for the NanoBio Device Lab. Gaborski was recently awarded a 5-year $1.8M grant from the NIH to develop novel membranes to support these tissues in vitro for use in drug screening and stem cell differentiation. The porous ultrathin membranes that his team are developing allow the cells within these tissues to easily communicate and mature. These types of models will likely reduce animal testing, while at the same time provide more physiologically relevant results due to their use of human cell lines. Gaborski was named a Young Innovator in Cellular and Molecular Bioengineering by the Biomedical Engineering Society (BMES) in 2014 for his early work in this field.

Gaborski and his team are also collaborating on the development of blood purification technologies using nanomembranes. The nanoscale thinness and efficiency of these membranes are enabling the development of very small and potentially portable dialysis machines that could revolutionize treatment of kidney and liver disease. His team has been funded to develop nanomanufacturing approaches that can scale-up the technologies needed for these devices. Animal trials are currently underway with a collaborating laboratory at the University of Rochester.

Thomas Gaborski
Assistant Professor
Kate Gleason College of Engineering
**Peer Reviewed/Juried Poster Presentation:**

**Peer Reviewed/Juried Poster Presentation:**

**Peer Reviewed/Juried Poster Presentation:**

**Invited Keynote/Presentation:**

**Invited Keynote/Presentation:**

**Invited Keynote/Presentation:**
Lapizco-Encinas, Blanca H. "Dispositivos Dielectroforéticos con Aisladores: ¿Qué son y cómo pueden mejorarse?". "Robustez en la Separación de Micropartículas de Escasa Abundancia por medio de Dielectroforesis." Proceedings of the First International Forum of Mexican Talent -IMMX. Ed. IMMX. Guadalajara, Jalisco, Mexico: IMMX. ≠

**Cristian A Linte, Assistant Professor**


CHEMICAL ENGINEERING

Anju R Gupta


Reginald E Rogers, Assistant Professor


Yasemin D Yilmazel


**COMPUTER ENGINEERING**

**Dhireesha Kudithipudi, Associate Professor**


Marcin Lukowiak, Associate Professor


Raymond W Ptucha, Assistant Professor


Shanchieh Yang, Associate Professor


Electrical and Microelectronic Engineering

E Lyshesvki, Professor


Sildomar T Monteiro, Assistant Professor


Eli Saber, Professor


Gill Tsouri, Associate Professor


External Scholarly Fellowships/National Review Committee:

1/1/2016 - 8/15/2016
Verily Life Sciences
Amount: $83,000 #
Jayanti Venkataraman, Professor


INDUSTRIAL AND SYSTEMS ENGINEERING

Denis Cormier, Professor


Marcos Esterman, Associate Professor


Scott Grasman, Professor


Michael Kuhl, Professor


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**Matthew Marshall, Associate Professor**


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**Katie T McConky**


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**Ruben Proano, Assistant Professor**


Ehsan Rashedi


Rachel T Silvestrini, Associate Professor


Brian Thorn, Associate Professor


MECHANICAL ENGINEERING

Wael Abdel Samad


Stephen Boedo, Professor


Alfonso Fuentes Aznar


Hany Ghoneim, Professor


Amitabha Ghosh, Professor


Surendra Gupta, Professor


Edward C Hensel Jr., Professor


Patricia Iglesias Victoria, Assistant Professor


**Shows/Exhibits/Installations:** Iglesias, Patricia. Tribology Laboratory at Kate Gleason College of Engineering. n.d. CEIS University Technology Showcase 2016, Rochester. Exhibit.


**Satish Kandlikar, Professor**


Jason Kolodziej, Associate Professor


Alexander S Liberson, Lecturer


Rui Liu, Visiting Assistant Professor


Risa Robinson, Professor


Robert J Stevens, Associate Professor


Benjamin Varela, Associate Professor


P Venkataraman, Associate Professor


MICROSYSTEMS ENGINEERING

Parsian Katal Mohseni


ACADEMIC AFFAIRS

Marianne Gustafson, Professor


Kathryn Schmitz, Associate Professor


AMERICAN SIGN LANGUAGE AND INTERPRETING EDUCATION

Joseph C Hill


Kim Kurz, Assistant Professor


**Jason D Listman, Assistant Professor**


**Campbell A McDermid, Assistant Professor**


JOSEPH C. HILL, ASSISTANT PROFESSOR IN THE DEPARTMENT OF AMERICAN SIGN LANGUAGE AND INTERPRETING EDUCATION AT NATIONAL TECHNICAL INSTITUTE FOR THE DEAF.

Dr. Hill focuses on the language attitudes in the American deaf community and the African American socio-linguistic and historical aspects of American Sign Language.

His research interests are the African American socio-historical and -linguistic aspects of American Sign Language and the language attitudes and ideologies about signing varieties in the American Deaf community. His contributions include the Gallaudet University Press volumes, The Hidden Treasure of Black ASL: Its History and Structure (2011) which he co-authored with Carolyn McCaskill, Ceil Lucas, and Robert Bayley and Language Attitudes in the American Deaf Community (2012). Following The Hidden Treasure, Dr. Hill is currently conducting an ethnographic study of multi-generational Black Deaf families in the United States. The study is to address the gap in the family research literature on the communication, educational, and social contexts of African-American deaf and hard-of-hearing families. Over 15 families were interviewed in American Sign Language by Dr. Hill and his Gallaudet University colleague, Dr. Carolyn McCaskill, and the interviews were videorecorded and then later transcribed in English. The video transcripts are currently reviewed by deaf and hearing student assistants to ensure the accuracy of the transcription before doing a qualitative analysis.

The purpose of such analysis is to discover common themes related to communication, education, and social contexts that may be unique at the intersection of race and deafness for the Black Deaf families. Dr. Hill believes that researchers must apply their intersectional lens to understand the social and educational issues affecting the diverse population of deaf and hard of hearing people whose lives are continually defined by their identities and their backgrounds.

Joseph C. Hill
Assistant Professor
National Technical Institute for the Deaf

Christine Monikowski, Professor
External Scholarly Fellowships/National Review Committee:
6/1/2016 - 6/22/2016
Trinity College Dublin, Arts & Humanities Research Institute
Amount: $15,000.

Robert Pollard


ART AND IMAGING STUDIES

David S Cohn, Associate Professor

Paula Grcevic, Professor


Laural K Hartman

Eric Kunsman
Shows/Exhibits/Installations: Kunsman, Eric T. West Palm Beach, Florida. 6 May 2016. Center for Fine Art Photography, Fort Collins, CO. Exhibit. *

Shows/Exhibits/Installations: Kunsman, Eric T. July 4th Palmyra, NY. 1 Apr. 2016. Southeast Center for Photography, Greenville, SC. Exhibit. *


Grants: Kunsman, Eric T. (2016). Provost Lecturer Professional Development Grant. Grant received/funded by Wallace Center at RIT, RIT. «


Sidonie M Roepke, Professor


ASL TRAINING AND EVALUATION

Geoff Poor, Professor

Published Game, Application or Software:

ASLIE - RESEARCH

Peter Hauser, Professor


BUSINESS STUDIES

Alvin C Boyd

Charlotte L Thoms, Associate Professor


COMMUNICATION STUDIES AND SERVICES

Catherine Clark, Associate Professor


COUNSELING AND ACADEMIC ADVISING SERVICES

Mark J Rosica, Associate Professor


CULTURAL AND CREATIVE STUDIES

Luane Haggerty, Senior Lecturer


Deirdre Schlehofer, Assistant Professor


Dino J Laury (Lauria), Assistant Professor


LIBERAL STUDIES

Matthew W Dye

Grants: Dye, Matthew W, Matt Huenerfauth, and Kim B Kurz (2016-2017). The Validity of Avatar Stimuli for Psycholinguistic Research on ASL. Grant received/funded by SPDI, NTID. ≠

Grants: Dye, Matthew W and Peter C Hauser (2016-2019). Development of Temporal Visual Selective Attention in Deaf Children. Grant received/funded by BCS Development and Learning Sciences, NSF. ≠


Kathleen Eilers-crandall, Associate Professor


Pamela Kincheloe, Associate Professor


LIBERAL STUDIES - RESEARCH

Gerald Berent, Professor


Peer Reviewed/Juried Poster Presentation:  


Vincent J Samar, Associate Professor


Grants: Samar, Vincent J. and James DeCaro (2015-2016). NTID Subcontract to the Rochester Prevention Research Center- National Center for Deaf Health Research (NCDHR), Centers for Disease Control and Prevention (CDC): Prevention Research Centers Program. Grant received/funded by CDC Prevention Research Centers, CDC. £


MSSE

Gerald Bateman, Professor


Christopher Kurz, Associate Professor


Sara Schley, Associate Professor


Jessica W Trussell


Lisa Elliot


Ronald Kelly, Professor


Ila Parasnis, Professor


Sara Schley, Associate Professor


Michael Stinson, Professor


OFFICE OF THE PRESIDENT

Lisa Elliot


**SCIENCE AND MATHEMATICS**

**Marc Marschark, Professor**


**Robert Pollard**


**Scott R Smith**


Jane K Jackson, Assistant Professor

Bonnie Jacob, Assistant Professor


Viet Q Le


Matthew Lynn, Associate Professor


Keith Mousley, Associate Professor


_Invited Keynote/Presentation:_ Nordhaus, Jason. "Orbital Decay in Evolving Multi-Body Systems. Grant proposal submitted to SPDI, NTID."

_Invited Keynote/Presentation:_ Nordhaus, Jason. "Physics for a Silent World. Grant proposal submitted to Education and Outreach Grant, American Physical Society."


_Invited Keynote/Presentation:_ Nordhaus, Jason. "Orbital Decay in Evolving Multi-Body Systems. Grant proposal submitted to SPDI, NTID."

_Invited Keynote/Presentation:_ Nordhaus, Jason. "Physics for a Silent World. Grant proposal submitted to Education and Outreach Grant, American Physical Society."


Vicki Robinson, Associate Professor


Annemarie Ross, Associate Professor


AMERICAN UNIVERSITY IN KOSOVO
CENTER FOR MULTIDISCIPLINARY STUDIES

Makini Z Beck


Thomas F Hanney


Daniel W Worden


RIT CROATIA

Vanda Bazdan


Luka Borsic


Nikola Draskovic

Branko Mihaljević is a Senior Lecturer at RIT Croatia.

Besides being an educator and researcher in the field of computing for almost seventeen years, he is also a consultant, software architect, and entrepreneur.

He is a member of the Web and Mobile Computing / Information Technology program faculty at RIT Croatia, currently teaching software development and database-related courses according to B. Thomas Golisano College of Computing and Information Sciences program. He received his dipl. ing. (MSc), mr. sc., DSM, and dr. sc. (PhD) at the University of Zagreb, Faculty of Electrical Engineering and Computing, where he worked for many years. Prior to coming to RIT Croatia, he was a lecturer at Algebra University College and VERN’ University of Applied Sciences. He worked on various research and professional projects, authored many papers, and delivered numerous workshops.

His research interests include soft, biologically-inspired, and evolutionary computing with a focus on artificial immune systems, but he has also done research in the fields of software architectures for web applications, object-oriented programming languages, ubiquitous, open, and cloud computing, and distance and e-learning. He gained professional experience as a software architect, consultant, project manager, and development lead on various projects in financial, telecom, public health, and satellite systems sectors in Europe. He was also a co-owner and CTO of a successful startup company.

One of his passions is Java programming language. He is one of the founders and the president of Croatian Java User Association (HUJAK). In the last few years, he has been involved in the organization of fifteen conferences, including JavaCro, Javantura, WebCamp, and HrOUG. He is the author of various popular Java articles and keynote presentations. In 2016 he coauthored a book chapter, wrote four conference papers, delivered five keynote and guest speeches at conferences, and co-organized three conferences, where he was a program committee chair.

Branko Mihaljević
Senior Lecturer
RIT Croatia
Irena Guszak Cerovecki  

**MILENA X KUZNIN**  


Branko Mihaljević  


Jasminka Samardžija


Jakob Patekar


Kristijan Tabak


Kevin Walker


RIT DUBAI

Charalampos Manifavas


Mohamed A Samaha