

Ivan Allen College of Liberal Arts

Building a better world.

» IMPACT REPORT 2017-2018



Message from the Dean



For 130 years, the liberal arts have been a change agent, broadening the perspectives of Georgia Tech students and faculty, amplifying their capacity to engage the profound changes in our world – of which we are both maker and experienter.

Academic Year 2017 – 2018, our 130th, has been one of extraordinary advancement in our research and education enterprises, and in the public service that is deliberately intrinsic to so much of what we do in this College. The small sampling of our work presented here, offers evidence that we continue to infuse our strengths with those of the Institute and to evolve toward the kind of holistic innovation and problem solving that is vital to our survival as a global technological society. You will find that the work of our faculty and students is of ever-widening influence around the world, domestically, and in our home state and city. We hope that the exciting work and perspectives shared in this report inspire you to heighten your involvement with us – to partner with us in creating the next innovation at the crossroads of liberal arts and technology to Build A Better World.

With warm regards,

A handwritten signature in black ink that reads "Jacqueline J. Royster".

Jacqueline J. Royster, Dean
Ivan Allen Jr. Dean's Chair in Liberal Arts and Technology



Dean's Offices Move to Heart of Campus

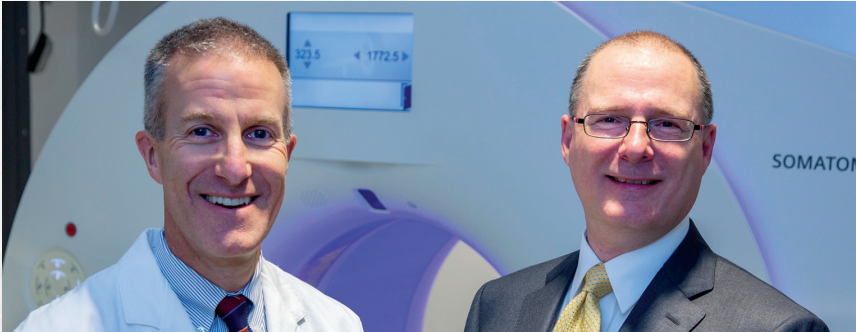
The Offices of the Dean have relocated to the newly renovated first floor of the D.P. Savant building at 631 Cherry Street, just steps from Tech Tower. We have contiguous office space for the dean's staff, plus conference rooms, and event space that support our efforts to build community in the liberal arts and beyond.

New Chair of Economics

Professor Laura O. Taylor brings significant experience in administration, sponsored research, and teaching, as well as research strengths in emerging areas of importance including environmental economics, natural resource economics, and policy analysis. She has been the principal investigator for \$2.5 million in grants and just completed a term as president of the Association of Environmental and Resource Economists.



≡ Two New Centers



\$3.3 Million Health Economics and Analytics Lab (HEAL)

A partnership between the College and the American College of Radiology's Neiman Institute led by Professor Danny Hughes (ECON 1998), HEAL applies big data analytics and artificial intelligence to large-scale medical claims databases with a focus on medical imaging to better understand how evolving health care delivery and payment models affect patients and providers.



\$2.25 Million Atlanta Global Studies Center (AGSC)

The new AGSC serves national needs for languages and international studies, focusing on faculty development and global workforce education for underrepresented students throughout Atlanta. Jointly led by our School of Modern Languages and Georgia State University, AGSC is funded by the U.S. Department of Education as a prestigious National Resource Center and a Foreign Language and Area Studies (FLAS) Fellowship Program.



Center for Advanced Communications Policy's Wireless RERC Funded for \$4.625M and Achieves Highest Score

The CACP in the School of Public Policy released its annual report for AY 2016 – 2017. A major achievement was obtaining \$4.625 million in funding from the HHS National Institute on Disability, Independent Living, and Rehabilitation Research for the Rehabilitation Engineering Research Center (RERC) for Wireless Inclusive Technologies. Led by Executive Director Helena Mitchell, CACP received the highest score for an RERC in the past 16 years. Since 2001, CACP has been awarded more than \$19.3 million in DOE and HHS funding for the Wireless RERC.

≡ Groundbreaking New Academic Programs Grow Our Global Footprint



New Master's Programs Emphasize Professional Skills in Foreign Language and Cultural Studies

The School of Modern Languages launched two masters of science programs. The Master of Science in Applied Language and Intercultural Studies (MS-ALIS), and the Master of Science in Global Media and Culture (MS-GMC) created with the School of Literature, Media, and Communication, are the nation's first graduate degrees in foreign language and cultural studies designed for professional careers. ModLangs Chair Anna Stenport noted that, "Our technology-oriented strengths, innovative teaching and scholarship, and many international partnerships, position both graduate programs as national models."

New Study Abroad Programs Tackle Global Issues

The new Japan program led by Nunn School Professor Brian Woodall provides students opportunities to solve real world problems in sustainability. The Morocco program led by HSOC Professor Laura Bier and lecturer David Marcus offers tracks in social justice and Arabic and Middle Eastern studies. The Venice program led by PUBP faculty Emanuele Massetti and lecturer Alice Favero focuses on sustainable development and climate change policy.



Online Master of Science in Cybersecurity is Potential Game Changer

Following the launch of our MS in Cybersecurity Policy in 2017, policy is one of three tracks in Georgia Tech's new Online Master's in Cybersecurity. Our global brand, online scaling, and the \$10,000 cost hold promise for addressing the severe shortage in the global cybersecurity workforce. Led by Professor Milton Mueller, the Information Technology Management Graduate Program is ranked #2 by *U.S. News & World Report*.



Sam Nunn School Chair Funded during Twentieth Anniversary Year of School's Naming

This endowed faculty leadership chair will provide annual discretionary support in perpetuity for the chair of the Sam Nunn School of International Affairs to advance strategic priorities. We are grateful for generous funding commitments to the Chair made by Senator Nunn, Joan and Hubert "Herky" Harris (IM 1965), and Carolyn and Earl Shell (BC 1962).

Helen H. Naugle Communication Lab Named

The LMC Communications Center serving all of Georgia Tech was named in honor of English Professor Helen H. Naugle who innovated business writing and communications resources for students in the 1970s. The Naugle family, including Tech alumni Drs. Lynn Deibler (MS PHYS 1977) and Elizabeth Deibler Gadsby (PhD Chemistry and Biochemistry), established an endowment to support the lab's internationally recognized multimodal communication curricula which is directed by Professor Karen Head.



What Does Georgia Tech Think? Further Gains in Media Coverage

The work and insights of College faculty were featured or quoted in more than 150 A-list media outlets this year, marking a seven percent increase – on top of last year's 40 percent increase – in media presence.

Lisa Yaszek Featured in Filmmaker 'James Cameron's Story of Science Fiction' Series on AMC



Lisa Yaszek, professor of science fiction studies in LMC, appeared in all six episodes of the series, which focused on aliens, time travel, outer space, dystopian futures, monsters, and robots, cyborgs, and other intelligent machines. She also authored a chapter for the series' companion book.

Georgia Tech's Army Reserve Officer's Training Corp Marked Its Centenary

Formed in 1917 on the eve of World War I, Georgia Tech's Army Reserve Officer's Training Corp marked its centenary in 2017. Together with the Navy and Air Force units, which also report to the College, we celebrated a distinguished tradition of educating the nation's foremost military leaders.





Some UNU-CS Projects Founded Under Best's Leadership

Improve Gender Equality in Technology

– established the Equals Global Partnership which issued its first research report highlighting the extent of the gender gap in technology and proposing policy changes to help reduce it.

Better the Lives of U.N. Peacekeeping Forces

– examined communication technology innovations that will improve the effectiveness of U.N. peacekeepers.

Save Exploited Workers from Slavery

– developed an app to improve the ability of first responders to identify and help victims of human trafficking by addressing language barriers.



“Georgia Tech has to stay true to its commitment to crossing social science and liberal arts with engineering and other sciences.”

After nearly four years on leave in Macau, China establishing the United Nations University on Computing and Society (UNU-CS), Michael Best has returned to campus with a deeper understanding of how Georgia Tech’s interdisciplinary strengths can help solve complex problems on the world stage.

Jointly appointed associate professor in international affairs and interactive computing, Best envisioned UNU-CS as a research institute integrating information and communication technologies and international development. The work proved a stellar match for Best’s interdisciplinary expertise, and reinforced the relevance and value of Georgia Tech’s extraordinary leadership in interdisciplinary research and teaching.



Students in the Study Abroad Program at UNU-CS with Nunn School professors Fei-Ling Wang and Mike Best (third and second from right respectively).

“There’s nothing at the U.N. that is a single-discipline problem. They don’t just need a social scientist. They need a social scientist who understands emerging and frontier technologies. They don’t just need a computer scientist. They need a computer scientist who understands national security issues.”

“There’s an enormous need for people like us - innovators, engineers, technologists, social science and liberal arts scholars.

Georgia Tech has to stay true to its commitment to crossing social science and liberal arts with engineering and other sciences. It’s one of the unique and distinct competencies of the Institute, it’s one of Ivan Allen’s greatest strengths, and it’s one of the United Nations’ greatest needs.”

Best left in place a staff of 20 and a thriving research institute focused on cross-disciplinary solutions to challenges. Now back on campus, he’s working with colleagues in computing and digital media to incubate a Center for Computing and Society at Georgia Tech.

“We’re hoping to build a real research initiative, develop some resources and funding around it, and in that sense, bring some of the core intellectual energy that we helped to incubate in China back here to Atlanta.”



Kyoto Protocol Analysis:

Tradeoff in Economic Growth Is Important Consideration for International Climate Accords, but Impact May Be Transitory



Eren Cifci

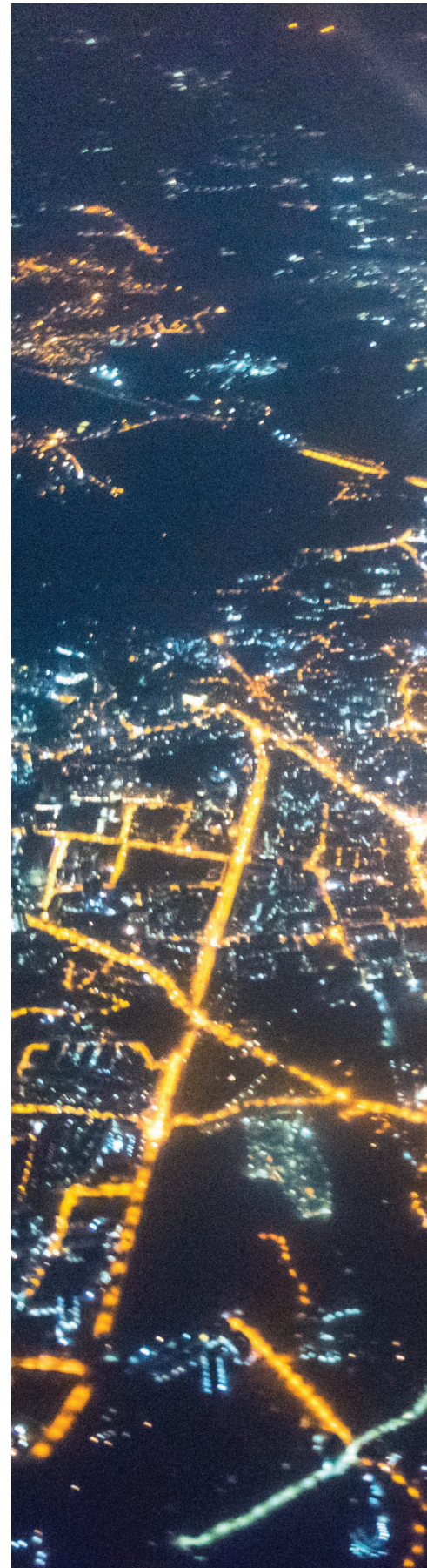


Matthew E. Oliver

New research from the School of Economics suggests that international climate agreements are effective in reducing greenhouse gas emissions, but that such reductions may come at a cost of slower

economic growth, an impact that the researchers argue should be considered when designing such agreements. The study by master's student Eren Cifci (graduated Spring 2018) and Professor Matthew E. Oliver is the first by academic researchers using this data and method to examine the tandem impacts of the Kyoto Protocol on signatory developed countries' greenhouse gas emissions and their per capita gross domestic product (GDP) growth. They found that annual greenhouse gas emissions were reduced by 1 million metric tons of CO₂ equivalent on average, but that these countries also experienced an average decline in per capita gross domestic product growth of 1 to 2 percentage points. That translates into lost annual income growth of about \$600 per person. The authors caution against seeing the findings as inimical to efforts to combat climate change, describing their results as more suggestive than definitive due to the difficulty in controlling for the many variables that can affect GDP growth and the short-term nature of the analysis. They note that GDP impacts may be transitory, whereas climate benefits are likely to be longer lasting.

"Re-assessing the Links between GHG Emissions, Economic Growth, and the UNFCCC: A Difference-in-Differences Approach" is published in the February edition of the journal *Sustainability*.





Understanding India's Energy Transition

New research by Economics Professor Usha Nair-Reichert and Nunn School Assistant Professor Anjali Thomas Bohlken focuses on consumer demand and attitudes towards innovations by the power industry in India as it strives to increase green power production for its nearly 1.3 billion residents. They are analyzing behavioral and societal factors influencing consumer responsiveness to energy-sector initiatives such as smart meters, attitudes about paying for electricity, strategies such as time-of-day pricing, and perceptions about renewable energy and related technologies. A second phase goal is to partner with government agencies and industry and community groups to generate further policy-relevant insights on energy adoption and expansion in India.

Funded by the Strategic Energy Institute at Georgia Tech, the study is a collaboration with the Center for Strategic and International Studies as part of their U.S.-India State and Urban Initiative.

Nair-Reichert studies issues involving innovation, sustainability and environmental regulation, and economic development. Bohlken focuses on the political economy of development.



Usha Nair-Reichert



Anjali Thomas Bohlken

An Evolving World Order

» Europe



“A Changing Europe in an Uncertain World” summarizes the substance of an international conference that brought together an international cadre of scholars and experts to assess the European Union’s place in the world given the United Kingdom’s impending departure, the non-traditional foreign policy of the Trump Administration, and the new/renewed assertiveness of China and Russia. The conference was organized by Nunn School Professor Alasdair Young, who co-directs the Center for European and Transatlantic Studies, in collaboration with the Atlanta Council on International Relations. The report was written by Young and Dr. Scott Brown, with a foreword from Ret. General Phillip Breedlove. The publication identifies six main conclusions from the conference:

- » Brexit will not dramatically affect the EU’s role in the world.
- » Democratic backsliding in member states threatens the EU’s soft power.
- » The transatlantic relationship is deep enough and sufficiently routinized to weather the Trump Administration and Brexit, but it will be a rough passage.
- » Russia is both spurring cooperation among the EU’s member states and fostering divisions within them.
- » China’s rise increasingly poses challenges and threats to the EU, but member states continue to focus on the economic opportunities in the relationship.
- » The liberal international order is under threat from several directions, which poses a particularly significant challenge to the EU.

» China



“China has a very peculiar political system based in 2,000 years of history. I call it the Qin-Han polity. It has given rise to a very peculiar worldview. I call that the China Order. In short, it calls for unification of “all under heaven,” tianxia, under a single authority.”

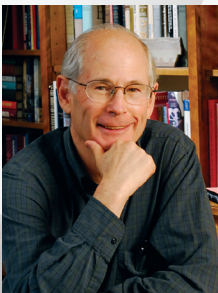
Nunn School China scholar Fei-Ling Wang warns that analysts have failed to understand the true nature of what is driving China’s self-declared “move to the center of the world stage” and that that could prove a costly mistake for deciding how to respond. Wang argues that the current international world order, dominated by a system of national sovereignty that originated in Europe and that undergirds the world’s major international agreements, is fundamentally incompatible with a Chinese worldview that has survived for centuries and is now being revived. That political authority of the singular China Order is authoritarian, often totalitarian in nature. The People’s Republic of China (PRC) is essentially a reincarnation of the old Qin-Han polity wrapped in modern, imported phraseology and decorations. The rise of the PRC is thus ushering in a new round of power redistribution in the international system on a massive scale, together with its ideal of reordering the nations. Wang believes there are many ways for the U.S. to ensure that the Chinese people get to explore their history freely and thus make the right decisions.

An eminent China scholar and professor in the Sam Nunn School of International Affairs, Fei-Ling Wang’s most recent book is *The China Order: Centralia, World Empire, and the Nature of Chinese Power*, SUNY Press, 2017.

» Middle East

HSOC Professor Emeritus Jonathan Schneer addressed the British Academy on the centenary of the Balfour Declaration, a landmark document that committed Britain to supporting the establishment in Palestine of “a National Home for the Jewish people.” An eminent American scholar of British history, Schneer’s award-winning book, *The Balfour Declaration: The Origins of the Arab-Israeli Conflict* (Penguin Random House, 2010), reexamined Britain’s intentions in the Middle East during World War I. Schneer showed how the Balfour Declaration laid the foundation for the modern conflict in the Middle East and revealed the duplicitous promises made to multiple sides by British Prime Minister

Lloyd George in order to win the war. Schneer’s lecture at the British Academy caps a seven year juggernaut of awards, publications, lectures, and press coverage of his work on *Balfour*.





Pinpointing Costs of Opioid Epidemic Can Help Stem A National Crisis



As the opioid epidemic worsens in the United States claiming more than 42,000 lives in 2016, the economic cost has risen to staggering heights. New analysis by Scott Ganz and Alex Brill, a fellow at the American Enterprise Institute, in “The Geographic Variation in the Cost of the Opioid Crisis,” calculates opioid-related costs for health care, criminal justice, and worker productivity in states and counties with at least 2,500 residents. The researchers also examined the per capita costs associated with opioid-related deaths.

“One of the reasons we include the non-mortality costs is to emphasize that the costs of the opioid crisis come from a variety of factors...and those can vary widely across counties and states,” said Ganz.

“Demonstrating the variability in the economic impact of the opioid crisis can help policy makers better target efforts and funding to the communities where it can have the most impact.”

HIGHEST COSTS IN THE NATION

Jackson County, Indiana at \$727 per resident

Boone County, West Virginia at \$8,734 per resident *including mortality-related costs

New Hampshire at \$360 per capita

West Virginia at \$4,378 per person *including mortality-related costs

STATES WITH LOWEST COSTS

Iowa and Nebraska

“Designing the right policy instrument requires not only deciding on the size of the response, but also identifying what areas of the country need our focus most.” - Assistant Professor Scott Ganz, School of Public Policy



Technology: A Concept In Search of a Definition



Eric Schatzberg has completed the first in-depth research project examining the history of the term “technology” as a concept.

Schatzberg concludes that the meaning of the term is muddled among academics and everyday users alike, leading to confusion in discussions about both the methods associated with creating physical objects and the science that is implicated in these methods.

In summing up his research, he rejects what he calls an instrumental approach to technology, which views technology as “a mere instrument that serves ends defined by others.” Instead, he adopts what he calls a “cultural” approach, in which “technology is imbued with human values and strivings in all their contradictory complexity.” He calls for “rehabilitating technology as a concept for history and social theory, with an eventual goal of shaping technologies toward more humane ends.”

“I’ve used this history to argue for a humanistic concept of technology as inextricably cultural. Technology is an expression of human values, both good and bad, of the desire to create and of the urge to destroy, of love and hate, of peace and war,” he writes. “Yet the dominant instrumental approach to technology denies the connection between technological and moral choices. By rejecting instrumentalism, we affirm the need to think ethically about technology.”

Schatzberg is professor and chair in the School of History and Sociology. This research is presented in the book *Technology: Critical History of a Concept* (University of Chicago Press, 2018).

» The Smart Citizen Revolution

AI-Based Energy Grid Modeling Platform is Key to Converting Atlanta to 100% Renewable Energy

While earning his PhD under Professor Marilyn Brown, Matt Cox created ATHENIA, an AI-based modeling platform that can produce hour-by-hour simulations of energy demands that are accurate within 0.1 percent, compared to other models with annual errors of 8 to 15 percent.

Cox's energy policy consulting firm, The Greenlink Group, is playing a major role in Atlanta's efforts to transition the entire city – from the tiniest lightbulb to the world's busiest airport – to 100 percent renewable energy by 2035. With ATHENIA, Greenlink is capable of taking 50,000 data points from every power generating unit in the country, including details on weather, fuel price information, and other factors. It can capture the impact of

energy efficiency efforts such as changing out a single traditional showerhead with a low-flow model. The company has helped provide detailed data on the impact of various policy choices for Atlanta, offering some 40 options for meeting goals. According to Kimi Narita with the National Resource Defense Council, Greenlink's ability to provide eye-opening, highly-accurate details on energy use to everyone from residents to policymakers resonates with local decision makers and can be a game-changer, moving "the entire environmental field forward."

Public Policy's Environmental Policy Analysis Graduate Program is ranked #12 by *U.S. News & World Report*.





Xiaojing Sun (l) and Matt Cox (r) of Greenlink with Marilyn Brown



Marilyn Brown Leads on DOE Electric Vehicle Report and Atlanta's Win of \$2.5 Million American Cities Climate Challenge

Electric vehicles equipped to pump electricity back into the grid could help make for a more resilient power system and make owners a little cash, to boot, according to a new U.S. Department of Energy report written principally by Public Policy Professor Marilyn Brown, who is also Regents' Professor and Brook Byers Professor of Sustainable Systems. The report "envisions a future where mobile batteries in electric vehicles could provide power to our homes, back-up power to businesses, and a new source of revenue to vehicle owners," but policy challenges need to be overcome.

Brown was also instrumental in efforts that won the Bloomberg American Cities Challenge for Atlanta. The award provides opportunity for the city to enter a two-year acceleration program with access to new resources, technical assistance, and cutting-edge support valued at up to \$2.5 million that will help Atlanta meet or beat its near-term carbon reduction goals.

» The Smart Citizen Revolution

The Promise and Pitfalls of Open Government Data

A team led by Jennifer Clark examined the potential of open government data (OGD) in the smart city. OGD could figure prominently by informing governance decisions related to changing populations, departmental operations, and economic drivers, yet they are actually scarce. Large quantities of potential OGD remain trapped in incumbent systems. Clark and her collaborators confronted the challenges of legacy data through a constructivist analysis of data wrangling (i.e., converting data into useful formats) using “open data” for City of Atlanta revenue and expenses from 1996 to 2016. The work illustrated that wrangling legacy data is more than a rote technical activity. Smart governance depends on the

ways in which social, organizational, and institutional strategies cope with technical change. Further, the research demonstrated that wrangling legacy data is not a discrete problem to overcome but an operating condition defining the rapidly changing landscape of smart governance.

Clark’s research “Open Government Data in the Smart City: Interoperability, Urban Knowledge, and Linking Legacy Systems,” with collaborators Dr. Thomas Lodato (PhD DM) and Emma French (MS PP, MS CRP), was published in the *Journal of Urban Affairs*. Dr. Clark is associate director for Smart Cities and Inclusive Innovation at Georgia Tech.

Department of Finance Budget Explorer Data (Sample):

Fund	FY13 Actual	FY14 Adopted Budget	FY15 Budget	\$ Incr/Decr	% Incr/Decr
200100300 City Plaza Operating Fund	NM	NM	NM	NM	NM
200100400 Civic Center Revenue Fund	2.88%	-0.14%	NM	NM	NM
200100500 Parks Facilities Revenue Fund	-2.16%	3.96%	NM	NM	NM
200100600 Solid Waste Funds (Joint)	-0.64%	3.03%	NM	NM	NM
200100700 Underground All Revenue Fund	20.25%	-2.55%	NM	NM	NM
200100800 Downtown Dev	NM	NM	NM	NM	NM
200100900 2006 A&B Downtown Parking	NM	-100.00%	NM	NM	NM
200100110 Planning Dept Enterprise Funds	NM	NM	NM	NM	NM
200100120 Water & Wastewater Revenue Fund	7.04%	-1.71%	NM	NM	NM
200200000 Internal Service Fund	8.33%	4.10%	13.35%	-15.30%	-0.07%
200200100 Fleet Services Fund	NM	NM	NM	NM	NM
200200200 Group Insurance Fund	NM	NM	NM	NM	NM
200200300 Penitentiary Funds	SALC	-8.71%	NM	NM	NM
300100000 Agency Funds	NM	NM	NM	NM	NM
300200000 Trust Fund	SALC	-2.73%	NM	NM	NM
300300000 Rental	NM	NM	NM	NM	NM
300400000 HOM	NM	NM	NM	NM	NM
300600000 Spent	71.95%	NM	NM	NM	NM
300600000 GR	0.90%	NM	NM	NM	NM

Police Services Budget Summary:

Year	Type	Amount
2015	Actual	\$179.10M
2016	Budgeted	\$174.58M
2017	Budgeted	\$180.21M

Department of Finance Revenue and Expenses (Sample):

Category	2015 Actual	2016 Budgeted	2017 Budgeted
LICENSES AND PERMITS REVENUE	\$77.29M		
LOCAL OPTION SALES TAXES	\$4.25M		
PUBLIC UTILITY ALCOHOLIC BEVERAGE AND OTHER TAXES	\$105.27M		
FIRE SERVICES	\$79.54M		

Doctoral Student Eric Corbett Awarded \$25,000 for Work to Ensure that Technology Supports Trust in Civic Relationships



Governments from the smallest cities to entire nations have adopted technologies such as online portals and smartphone apps to make their work more efficient and convenient for constituents. Eric Corbett questions if they might also be losing out on a key part of the civic process. He seeks to understand how trust can inform the design of technology used in community engagement in local government. Corbett believes that it is crucial to build technologies locally instead of relying on off-the-shelf solutions. He also argues that developers and

“If we would start trying to understand our civic ecosystem and then building technology from that, maybe it would be more in tune with our needs.”

government leaders should think about ways to build features supporting person-to-person connections. As part of his dissertation research, Corbett expects to produce a design framework meant to further that goal. A doctoral student in Digital Media in LMC, Corbett has received a \$25,000 grant from Microsoft to help complete his dissertation.



Omar Asensio Works with City of Albany on Smart Communities Challenge

Assistant Professor Omar Isaac Asensio was selected to work on “Albany Housing Data Analytics and Visualization Initiative for the City of Albany,” one of four projects for the Georgia Smart Communities Challenge. The Georgia Tech-led Challenge brings together industry and public agencies to support large and small neighborhoods in their efforts to implement cutting-edge smart technologies. The Albany initiative seeks to bridge the gap between available data and the need for a comprehensive, flexible, and accurate open data portal to effectively manage the Albany housing inventory. The end result will allow a better measurement of public funds allocated for housing and neighborhood structure repairs and enhancements, using an automated data analytics and visualization tool.

» Out of This World

Science Fiction Offers a Different Window on Science and Technology

Science fiction is booming. Our LMC science fiction scholars explain how we got to this era dominated by zombies and *Stranger Things* and what lies ahead.

For Professor Lisa Yaszek, it's partly about politics and signal shifts, from the election of our first African-American president to that of President Trump. Such changes, she says, challenge us to think about change becoming the norm. Yaszek also talks about the value of science fiction, both individually and as a culture both for escapism and for enabling us to question the status quo in a non-threatening way, and to articulate and explore issues – those that serve to warn about dark or terrifying futures and those that inspire us to imagine brighter ones.

Given those considerations and science fiction's ability to inspire actual advances in science and technology, Associate Professor Susana Morris doesn't see the genre's relevance or popularity waning any time soon. With commercial space companies preparing to launch people into space for the first time and the prospect for human colonies on Mars, there is ever-expanding fodder for authors and producers. Morris also predicts more content featuring African-American characters, following the box office successes of *Black Panther* and *Get Out*.

No matter the source of inspiration, Professor Jay Telotte believes that science fiction will always exist because, whether we're aware of it or not, it plays a significant role in our lives. "We trip over science fiction every day," he says. "If we talk about reality, we pretty much talk about science and technology. They challenge, change, and bother us. That's what science fiction does. It bothers us in our complacency about the changes happening all around us. I hope that's what it will continue to do."



Lisa Yaszek



Susana Morris





“The past 120 years have been defined by rapid change, and science fiction can help us make sense of that change.” — Professor Lisa Yaszek



‘2001: A Space Odyssey’ Endures 50 Years On

2001: A Space Odyssey is arguably the world’s most influential science fiction film. After five decades, it remains notoriously difficult to interpret.

LMC professor of film studies Jay Telotte says that *2001* cannot be bound up in a nutshell, but one point that stands out is a call for humanity to emerge from the Age of Reason — visualized in the final room in which we see an old David Bowman — and become something new. Where we go is toward what Kubrick might have termed ‘imaginative man’ — man who follows his eyes as he tries to take in a challenging world of new images and learns to use his imagination to overcome problems. This is what the ancient Greeks had formulated for us long ago, that there is a logical side to humanity, as well as an emotional side to humanity, and that the imagination offered a way for bringing these two sides into harmony. I believe Kubrick was basically revisiting this notion and asking, ‘Might that still be a good path for us to follow?’

» Faculty Distinctions and Thought Leadership

NEW FACULTY

School of Economics

Justin R. Burkett, *Assistant Professor*
Research in microeconomic theory market design of real-world market institutions that allocate goods.

Danny R. Hughes, *Professor and Director of the Health Economics and Analytics Lab (HEAL)*.
Research on the roles of technology, innovation, and incentives in the delivery and usage of health care services with a specific focus on the economics of diagnostic imaging.

Laura O. Taylor, *Professor and School Chair*
Research focuses on policy evaluation and the valuation of natural resources and the environment.

School of Literature, Media, and Communication

André Brock, *Associate Professor*
Research on racial representations in videogames, black women and weblogs, whiteness, blackness, digital technoculture, and Black Twitter.

Anne Sullivan, *Assistant Professor*
Research on supporting underrepresented voices in games through experimental game design, interactive storytelling, and computational craft.

David Young, *Assistant Professor*
Young is an ethnographic rhetorical scholar with an emphasis on technical and engineering rhetoric.

School of Modern Languages

Annika Orich, *Assistant Professor of German*.
Research focuses on intersections between science and art, debates on multiculturalism and migration, discourses on memory and identity, and questions about humor.

School of Public Policy

Lindsey Bullinger, *Assistant Professor*
Research examines how public policies affect child and family health and well-being, especially that of low-income families.

Sam Nunn School of International Affairs

David Muchlinski, *Assistant Professor*
Research examines the use of machine learning to forecast onsets of political violence, and how the distribution of property rights affects the evolution of cooperation among violent non-state organizations to provide public goods for civilian populations.

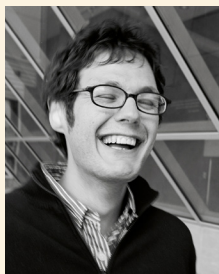
Professors of the Practice

Robert Bell, *Professor of the Practice*
A security and defense specialist with 45 years of experience in the U.S. government, Bell is working on nuclear arms control and policy.

John G. Rice, *Professor of the Practice*
Rice will contribute to the Nunn School's expertise in the private sector thanks to his many years as vice president of General Electric.

Elizabeth Sherwood-Randall, *Distinguished Professor of the Practice and Senior Energy-National Security Fellow at the Strategic Energy Institute*
Formerly the deputy director of the Department of Energy, Sherwood-Randall will focus on national security matters, and energy and climate policies.

Renowned International Poet Ilya Kaminsky Named to Bourne Poetry Chair



Ilya Kaminsky was named as the Margaret T. and Henry C. Bourne Chair in Poetry and director of Poetry@Tech. His work focuses on international poetry, translation, and literatures from around the globe. His new collection, *Deaf Republic*, will be published by Graywork Press and Faber and Faber (UK) in 2019. His other books have been translated into twenty languages including Turkish, Chinese, Spanish, and French. Previously, he

served as the Professor of English and Comparative Literature and director of the MFA program at San Diego State University, and as director of the Harriet Monroe Poetry Institute at Poetry Foundation.

PROMOTIONS

Jenna Jordan (Nunn School) and **Lauren Klein** (LMC) received tenure and were promoted to associate professor.

Brian Magerko (LMC) was promoted to professor.



Brian Magerko Receives Ivan Allen College Distinguished Researcher Award

Brian Magerko, LMC professor and director of Graduate Studies in Digital Media, explores how to augment human creativity with technology. He has led more than \$13 million dollars in federally-funded research, authored over 100 peer reviewed articles, and his work has been shown at galleries and museums internationally. He is also the co-founder of EarSketch, an online computer science education tool used by over 265K users worldwide. In 2018, the NSF awarded a sixth major grant to the EarSketch project led by Magerko. This \$3.1 million grant will enable research to add an Artificial Intelligence creative assistant to the music-based computer science learning platform. Co-founded in 2011 by Magerko and Music School Professor Jason Freeman, EarSketch has received more than \$10 million in NSF funding.



Richard Barke Receives Ivan Allen College Distinguished Interdisciplinary Educator Award

Public Policy Associate Professor Richard Barke has led interdisciplinary initiatives including chairing the creation of the Ivan Allen College, serving as associate dean from 1999-2006, and developing a campus-wide customizable undergraduate X-Degree (not funded). He has co-taught courses with civil engineering, business, and industrial engineering, worked with Engineering to develop the minor in the Social Context of Engineering Problems, and served on PhD committees for students in Public Policy, History and Sociology, Business, and Mechanical Engineering.



Steve Usselman Named H. Bruce McEver Professor of Engineering and Liberal Arts

Steven Usselman, a historian of technology, innovation, and public policy in the School of History and Sociology, has been named the H. Bruce McEver Professor of Engineering and the Liberal Arts. He succeeds Kenneth J. Knoespel who has held the professorship since its founding in 2001 and will remain an active contributor as McEver Professor Emeritus. Usselman will lead the McEver Program for Engineering and the Liberal Arts which seeks to bridge humanities and technical education through the McEver Interdisciplinary Seminars, informal learning activities, and public programming. H. Bruce McEver (IE 1968) endowed the program to further the idea that engineering need not isolate one from ideas and culture.



» Faculty Distinctions and Thought Leadership

Aaron Levine, PUBP

- Named co-director for Engineering Workforce Development at Georgia Tech's new \$20 million NSF-funded Engineering Research Center for Cell Manufacturing Technologies (CMA-T)
- Named to Georgia Tech Emerging Leaders Program

Aaron Santesso, LMC

- Received 2017 Innovative Course Design Award given by the American Society for Eighteenth-Century Studies (ASECS)

Alasdair Young, Nunn School

- Appointed co-editor for *Journal of Common Market Studies*

Angela Dalle Vacche, LMC

- Invited as Goggio Visiting Professor, University of Toronto, Canada

Anna Westerstahl Stenport, ModLangs

- Elected to Executive Committee of Modern Language Association's Association of Departments of Foreign Languages

Brian Magerko, LMC

- AdamLab Team (now Expressive Machinery Lab) awarded first place at 2017 Turing Tests in Creative Arts
- Received 2017 NCWIT Engagement Excellence Award for EarSketch (with Jason Freeman)

Emanuele Massetti, PUBP

- Appointed Brook Byers Institute for Sustainable Systems Fellow

Helena Mitchell, PUBP, Center for Advanced Communications Policy

- Reappointed as Regents' Researcher by University System of Georgia Board of Regents

Jennifer Clark, PUBP

- Named Fellow of American Association of Geographers
- Appointed deputy editor-in-chief for the flagship journal *Regional Studies* (RS)

John Krige, HSOC

- Appointed Distinguished Visiting Fellow at Green College, University of British Columbia

Johnny Smith, HSOC

- Awarded North American Society for Sport History (NASSH) Book Prize for his book *Blood Brothers: The Fatal Friendship Between Muhammad Ali and Malcolm X* (with Randy Roberts), (Basic Books, 2016)
- Received 2018 Emerging Voice Award, College of Liberal Arts at Purdue University

Kaye Husbands Fealing, PUBP

- Appointed to National Science Foundation (NSF) Committee on Equal Opportunities in Science and Engineering (CEOSE), a congressionally mandated advisory committee to NSF
- Appointed as CEOSE liaison to the National Science Foundation (NSF) Directorate for Education and Human Resources Advisory Committee
- Honored as Trailblazer by National Medical Association Council on Concerns of Women Physicians

Lauren Klein, LMC

- Awarded Collaborative Research Fellowship, American Council of Learned Societies (ACLS)
- Awarded National Endowment for the Humanities-Mellon Foundation Fellowship for Digital Publication

Lawrence Rubin, Nunn School

- Awarded a Council on Foreign Relations International Affairs Fellowship in Nuclear Security in the Office of the Secretary of Defense for Policy sponsored by the Stanton Foundation.



Margaret Kosal, Nunn School

- Named to Georgia Tech's Emerging Leaders Program

Mark Zachary Taylor, PUBP

- His book *The Politics of Innovation: Why Some Countries Are Better Than Others at Science and Technology* (Oxford University Press, 2016) received the American Society of Public Administration's 2017 Woodrow Wilson Foundation Award for the best book on government, politics, or international affairs
- *The Politics of Innovation* won the 2017 Don K. Price Award for Best Book in S&T Politics

Mary Frank Fox, PUBP

- Elected Fellow of the American Association for the Advancement of Science (AAAS)

Marilyn Brown, PUBP

- Named Regents' Professor by University System of Georgia Board of Regents
- Received American Council for an Energy-Efficient Economy (ACEEE) Champion of Energy Efficiency in Industry Award

Matthew Oliver, ECON

- Named to Georgia Tech Center for Teaching and Learning (CTL) Class of 1969 Teaching Fellows
- Named to Serve-Learn-Sustain (SLS) Energy Systems for Sustainable Communities (ESSC) Fellows Program
- Named to Strategic Energy Institute (SEI) to serve as a member of the Faculty Advisory Council

Omar Isaac Asensio, PUBP

- Selected for 40 for 40 Fellowship by the Association for Public Policy and Management (APPAM)
- Appointed to Editorial Board of *Journal of Environmental Studies and Sciences* (JESS)
- Named to Class of 1969 Teaching Fellows Program

Philip Breedlove, Nunn School

- Presented the 2017 Transatlantic Award by the leaders of Slovakia

Rachel Whitlark, Nunn School

- 2019 recipient of the ISSS Best Security Article Award for "Nuclear Beliefs: A Leader-Focused Theory of Counter-Proliferation" published in *Security Studies*

Rebecca Burnett, LMC

- Received a 2018 Regents' Scholarship of Teaching and Learning Award

Richard Utz, LMC

- Feted by University of Bamberg during tenure as Johann von Spix Professor

Shatakshee Dhongde, ECON

- Named to Georgia Tech Emerging Leaders Program

Steven Usselman, HSOC

- Awarded the Bern Dibner Research Fellowship in the History of Science and Technology, Huntington Library

Stuart Goldberg, ModLangs

- Awarded a Fellowship from the American Council of Learned Societies

Todd Michney, HSOC

- Recipient of the Serve-Learn-Sustain Award for Excellence in Community-Engaged Sustainability Teaching

Valerie Thomas, PUBP

- Recipient of the Class of 1934 Outstanding Interdisciplinary Activities Award



» Student Innovators

Doctoral Students

Economics doctoral student **Alaina Totten** was awarded a Sam Nunn Security Fellowship

Economics doctoral student **Christopher Blackburn** presented “Do Pilot Programs Alter Non-participant Behavior: Evidence from a Green Building Standard,” co-authored with **Mallory Flowers** (PhD PUBP 2017) and associate professors **Daniel Matisoff** (PUBP) and **Juan Moreno-Cruz** (ECON), at the Association for Public Policy Analysis and Management Research Conference

Economics doctoral student **Mishal Ahmed** presented his research in Mannheim, Germany

HSTS doctoral student **Renee Shelby** won a Graduate Student Paper Award from the Division of the Society for the Study of Social Problems for “Techno-physical Feminism: Surveillance, Anti-rape Technology and Shifting Risk Paradigms”

LMC Digital Media doctoral student **Eric Corbett** was awarded a \$25,000 Microsoft research grant to complete his dissertation research on the role of trust and technology in local government

LMC DM doctoral student **Eric Corbett** received a NSF grant for his dissertation research on the role of trust and technology in local government

Public Policy doctoral student **Elie Sung** won the Best Presentation Award at the Technology Management and Policy Graduate Consortium for “Evaluation of a Policy Change Weakening Patents and Its Effect on Firm Strategy”

PUBP doctoral student **Elie Sung** received the European Policy for Intellectual Property Best Paper Award for “Evaluation of a Policy Change Weakening Patents and Its Effect on Firm Strategy”



PUBP doctoral student **Elie Sung** received an NSF grant for her dissertation research with co-PI Professor **John Walsh**

PUBP doctoral student **Evan Mistur's** single-authored article “Health and Energy Preferences: Rethinking the Social Acceptance of Energy Systems in the United States” was published in *Review of Energy Research and Social Science*

PUBP doctoral student **Majid Ahmadi** was part of the team that won the People's Choice Award at Cybersecurity Demo Day for a proposed security dashboard for Internet of Things devices

PUBP doctoral students **Karim Farhat** and **Karl Grindal** won first place in the policy category at the Information Operations Technical and Policy Hackathon competition held at Harvard

Mallory Flowers (PhD PUBP 2017) received the 2017 Association for Public Policy and Management PhD Dissertation Award

PUBP doctoral students **Seokkyun Woo** and **Seokbeom Kwon** received Young Scholars Award in South Korea

PUBP doctoral student **Jenna McGrath** was named IISP Cybersecurity Fellow

Nunn School doctoral student **Philip Baxter's** article “How Small States Acquire Status: A Social Network Analysis,” co-authored with professors **Lawrence Rubin** and **Jenna Jordan**, was published in *International Area Studies Review*

“State Adoption of Transformative Technology: Early Railroad Adoption in China and Japan” by Nunn School doctoral candidate **Jon Schmid** and post-doctoral researcher **Jonathan Huang** was published in *International Studies Quarterly*

Doctoral students and **Sam Nunn Security Program Fellows** authored chapters for the edited volume *Technology and the Intelligence Community: Challenges and Advances for the 21st Century* published by Springer

Doctoral students and **Sam Nunn Security Program Fellows** briefed Special Operations Command Senior Leadership

Nunn School graduate students **Marziyeh Amirzadeh** and **Maryam Rostamour** participated in the Ministerial to Advance Religious Freedom

Doctoral and Master's

LMC DM doctoral student **Tom Jenkins** and master's student **Morgan Orangi** received the 2017 Foley Scholar Award

Master's Students

HSTS master's student **Alice Hong** won first place in the CRIDC Graduate Student Essay Competition for her work, "A Grave Danger: Sanitary Arguments for Cremation in the United States at the Turn of the 20th Century"

HCI –DM master's student **Lorina Navarro** won at the 2017 Society for Social Studies Meeting for her interactive narrative "Our Driverless Futures: Speculating Moral Dilemmas of Self-Driving Cars"

The robotics team mentored by PUBP master's student **Ed Barker** was inducted into the inaugural Robotics Competition Hall of Fame

Geoffrey Brown (MS IA) received a Fellowship to study Hindi in India

Undergraduate Students

Ten undergraduate students from Ivan Allen College presented at 2017 HSOC Undergraduate Research Symposium

Nunn School undergraduate and VIP Team student **Matthew Ansley** presented his independent research on the future applications of autonomous and non-autonomous unmanned aircraft and unmanned aerial vehicles in naval combat and the potential strategic and policy implications for the U.S. Navy at the Naval Future Force Science and Technology (S&T) Expo

PUBP majors **Audra Murphy** and **Sarah Oso** were awarded Stamps President's Scholarships

Taylor Poole (IAML) and **Mckenzie Rhone** (ECON) received Boren Award Scholarships to study Russian in Latvia and Portuguese in Brazil, respectively

Charles Lucas, Victoria Inman, Victoria Doris, and **Sarah Saltiel** won Best Public Policy Design at Capstone Expo

Ivan Allen College students from various majors presented at the 2018 Freshman Research Internship Exhibition

Elizabeth Krakovski and **Mira Kaufman** (PUBP) and **Gabrielle Oliverio** (Nunn School) were selected for 2018 Millennium Fellowships

Ivan Allen College Students Lead Georgia Tech Student Government Associations



Former Atlanta Mayor Ivan Allen Jr. was a leader on campus during his years at Georgia Tech so it's no surprise that the College that bears his name has a long-standing tradition of campus leadership. Three of the top four Student Government Association (SGA) positions for AY 2018/2019 are held by Ivan Allen College of Liberal Arts students. They are Graduate SGA Vice President **Renee Shelby** (PhD HSTS), pictured at center, Undergraduate SGA Vice President **Ayo Aladesanmi** (ECON), on the left, and President **Evan Gillon** (PUBP) on the right.

» 2018 Distinguished Alumni Awards

Dean's Appreciation Award

Gail and Barry (BE 1965) Spurlock
Founder and president of Spurlock & Associates, Inc.

Ivan Allen Jr Legacy Awards

Undergraduate Student Award – **Evan I. Long**, International Affairs Major

Graduate Student Award – **Renee Shelby** (MS SST), HSTS PhD Candidate

Faculty Award – **Steven W. Usselman**, Professor of history, School of History and Sociology

Ivan Allen College Distinguished Alumni Awards

Melody DeBussey (PUBP 2006)
Director of the Senate Budget and Education Office (SBEO), Georgia State Senate

Johnny Jones (IA 2002)
Career Foreign Service Officer, U.S. Department of State

Kelly Orman (ECON 1995)
Global Finance and Sales Operations Leader, SAP SE

Susan J. Robinson (PhD DM 2015)
Visiting Researcher, LMC Digital Media Program

Hannah L. Taylor (IAML 2009)
United States Country Manager, Global Health Corps

L. Christopher Young (HTS 2000)
Deputy Chief of Staff, United States Department of Agriculture

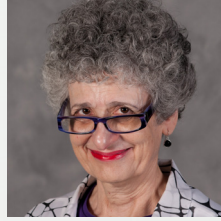


Pictured left to right. Front row: Barry and Gail Spurlock. Second row: Renee Shelby, Kelly Orman, Jacqueline Royster, Susan Robinson, Johnny Jones. Third row: Steve Usselman, Evan Long, Melody DeBussey, Hannah Taylor, and Chris Young.

» Executive Leadership



Jacqueline J. Royster
Dean



Janet H. Murray
*Associate Dean for
Research and Faculty Affairs*



Carol A. Colatrella
*Associate Dean for
Graduate Studies*



John L. Tone
*Associate Dean for
Undergraduate Studies*



Peter K. Brecke
*Assistant Dean for
Information Technology*

» School Chairs



Laura O. Taylor
School of Economics



Eric Schatzberg
School of History and Sociology



Richard Utz
*School of Literature, Media,
and Communication*



Anna Westerstahl Stenport
School of Modern Languages



Kaye Husbands Fealing
School of Public Policy



Joseph R. Bankoff
*Sam Nunn School of
International Affairs*

We are grateful to the individuals who serve on advisory boards for the College, and the Schools of Economics, Literature, Media, and Communication, Public Policy, and the Sam Nunn School of International Affairs. We value their dedication and insights. These individuals are highlighted on the College and School websites. We also express our gratitude to staff — in the dean's office and in each school. Their inestimable contributions ensure that we are the very best we can be.

Creating the Next[®]

Culturally Aware Citizen
Ethical Entrepreneur
Equitable Decision-Maker
Forward Thinking Public Servant
Global Humanitarian
Multilingual Mediator
Multidisciplinary Problem Solver
Smart Citizen
Sustainable Innovator
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