New Faculty Academy Orientation

August 16, 2022

Hosted by the Office of the Vice Provost for Faculty and the Office of Faculty Professional Development
Office of Faculty Professional Development

Dr. Rebecca Pope-Ruark,
Director
Tips for the Day

Restrooms past food and to the right

Terrace for fresh air past food to back of building

Coffee – Blue Donkey, first floor of Price Gilbert Library

Folder has materials for the day, which will all be available online this week

Jocelyn Lopez – registration desk
Dean of Libraries

Dr. Leslie Sharp
Vice Provost for Faculty

Dr. Michelle Rinehart
Provost

Dr. Steve McLaughlin
The Georgia Tech Community

Dawn Baunach, Ph.D.
Associate Vice Provost for Faculty
Associate Vice Provost for Faculty

Dr. Dawn Baunach
Values and Mission

VALUES
Students are our top priority.
We strive for excellence.
We thrive on diversity.
We celebrate collaboration.
We champion innovation.
We safeguard freedom of inquiry and expression.
We nurture the well-being of our community.
We act ethically.
We are responsible stewards.

These values are foundational to everything we do, and they define who we are and who we aspire to be as a community.

Living Our Values Every Day (L.O.V.E. GT) campaign

MISSION
The Georgia Institute of Technology is a public research university established by the state of Georgia in Atlanta in 1885 and committed to developing leaders who advance technology and improve the human condition.

STRATEGIC PLAN
Progress and Service for All
• Amplify Impact
• Champion Innovation
• Connect Globally
• Expand Access
• Cultivate Well-Being
• Lead by Example
Georgia Tech At-A-Glance

**Academic**
- College of Computing
- College of Design
- College of Engineering
- College of Sciences
- Ivan Allen College of Liberal Arts
- Scheller College of Business
- Georgia Tech Library
- Georgia Tech Professional Education

**Applied Research**
*Georgia Tech Research Institute (GTRI)*
Market-focused translational research

**Innovation & Entrepreneurship**
Innovation eco-system: students, start-ups, businesses, researchers, economic impact
<table>
<thead>
<tr>
<th>Employees, August 2022</th>
<th>Students, 2021-2022</th>
</tr>
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<tbody>
<tr>
<td><strong>Total Employees</strong></td>
<td><strong>Undergraduate Students</strong></td>
</tr>
<tr>
<td>(not including students)</td>
<td>Total</td>
</tr>
<tr>
<td>9,547</td>
<td>17,454</td>
</tr>
<tr>
<td>2,621</td>
<td>60% Georgia</td>
</tr>
<tr>
<td><strong>Academic Faculty</strong></td>
<td><strong>Women</strong></td>
</tr>
<tr>
<td>2,153</td>
<td>40%</td>
</tr>
<tr>
<td><strong>Research Faculty</strong></td>
<td><strong>Graduate Students</strong></td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
<tr>
<td><strong>Staff</strong></td>
<td>23,390</td>
</tr>
<tr>
<td>4,632</td>
<td><strong>Online</strong></td>
</tr>
<tr>
<td><strong>Students</strong></td>
<td>17,855</td>
</tr>
<tr>
<td>6,274*</td>
<td>56% US &amp; PR</td>
</tr>
<tr>
<td></td>
<td>(all campuses)</td>
</tr>
<tr>
<td></td>
<td><strong>Women</strong></td>
</tr>
<tr>
<td></td>
<td>26%</td>
</tr>
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*Includes about 2,885 graduate research and teaching assistants, the rest are undergraduate student assistants.
Organization – President

President Ángel Cabrera

Executive Leadership Team
• Academics, Research, Administration & Finance, Strategic Initiatives

President’s Cabinet
• Athletics; Communications; Development; Diversity, Equity, and Inclusion; Education and Learning; Ethics and Compliance; GTRI; Human Resources; Information Technology; Institute Relations; Student Engagement and Well-Being
Organization – Executive Vice Presidents

Provost - Steven McLaughlin
Six Colleges, Library, Professional Education, Faculty Affairs, Graduate Studies, Center for Teaching and Learning, Undergraduate Education, International Initiatives, Enrollment Services, Center for 21st Century Universities

Research - Chaouki Abdallah
Georgia Tech Research Institute, Georgia Tech Research Corporation, Office of Sponsored Programs, Enterprise Innovation Institute, Interdisciplinary Research Institutes (11) and Centers (12), Office of Industry Collaboration
University System of Georgia

The **Board of Regents**, together with the Chancellor, oversee the **University System of Georgia**. The USG has 26 institutions in total, including 4 research universities, 4 comprehensive universities, 9 state universities, and 9 state colleges.

The **research universities** offer a range of academic programs at the baccalaureate, masters, and doctoral levels and have a commitment to wide-ranging research, scholarship, and creative endeavors that are consistent with the highest standards of academic excellence.

The four research universities are **Augusta University**, **Georgia Institute of Technology**, **Georgia State University**, and **University of Georgia**.

Source: [https://www.usg.edu/student_affairs/prospective_students/usg_colleges_and_universities](https://www.usg.edu/student_affairs/prospective_students/usg_colleges_and_universities)
Welcome to Atlanta

The greater Atlanta region is comprised of 10 counties and has a population of 4.7 million. The City of Atlanta has a population of half a million and is characterized by over 200 recognized neighborhoods. The mayor of Atlanta, Andre Dickens, is a Tech alum.

Atlanta has many museums – including the High Museum of Art and the National Center for Civil and Human Rights – and great parks, such as Piedmont Park which was designed by Olmsted. A key player in the Civil Rights Movements of the 1950s and 1960s, Atlanta is also home to the Martin Luther King Jr. National Historic Park. The John Lewis mural (left) can be found on Auburn Avenue, just 2 miles from campus. Tech's new Student Center is named for John Lewis. Atlanta's 33 miles long Beltline was designed by a Tech alum.
Welcome!

Who are Georgia Tech’s new faculty?
- Five personal facts
- Five professional facts
- Meet your fellow new faculty!
15-Minute Break
Faculty Experience

Breakouts:
Two 30-minute sessions

- Table 1 Faculty of Color/DEI
- Table 2 Women+ Faculty
- Table 3 International Faculty
- Table 4 Sponsored Programs
- Table 5 Entrepreneurship
- Table 6 Legal Affairs
- Table 7 Teaching Experience
- Table 8 Work-Life Balance
Research at Tech

Dr. Julia Kubanek
Professor and Vice President for Interdisciplinary Research
Georgia Tech’s Research Landscape: An Overview for New Faculty

Julia Kubanek
Vice President for Interdisciplinary Research
August 16, 2022
Outline

• Who I am and the role of the EVPR team
• GT’s portfolio of interdisciplinary research institutes including collaborative structure, opportunities for faculty and student engagement, core facilities, other support
• The evolution of faculty-driven research and team-based research over the course of a career at GT
• Role of research in promotion and tenure at GT
Julia Kubanek

- Professor of Biological Sciences and of Chemistry & Biochemistry
- Leader of interdisciplinary research group in marine chemistry and marine biology
- Lab and field researcher
Julia Kubanek

- Vice President for Interdisciplinary Research
  (previously associate dean for research)
  (previously associate chair)
Julia Kubanek

- Scuba diver, hiker, jogger, swimmer, yogi, gardener
- Proud aunt, step-grandmother, and cat mom
Georgia Tech’s Research Leadership

Chaouki Abdallah Executive VP for Research

David Bridges VP of Enterprise Innovation Institute

Rob Butera VP of Research Development and Operations

Cindy Hope VP of Research Administration

Jim Hudgens Senior VP of Georgia Tech Research Institute

Julia Kubanek VP for Interdisciplinary Research

Raghupathy (Siva) Sivakumar VP for Commercialization

https://research.gatech.edu/about/leadership
Georgia Tech’s strategic plan sets a course for research through Research Next

- **Amplify Impact**: “Pioneer new directions of research that fully leverage our educational mission”
- **Champion Innovation**: “Amplify our interdisciplinary culture to drive discovery and innovation, including integrating social sciences & humanities”
- **Lead By Example**: “Exemplify a culture that nurtures a diverse, world-class research workforce”

https://strategicplan.gatech.edu/
https://researchnext.gatech.edu/
Current Priorities for Interdisciplinary Research at GT

• Connect and grow collaborative research at GT, including among colleges, schools, IRIs, research centers, GTRI
• Build deeper partnerships with key institutions including HBCUs/MSIs and national labs
• Support Interdisciplinary Research Institutes (IRIs) in leading inclusive, transdisciplinary research
• Make the most of historic federal investment in R&D
Georgia Tech Sponsored (Externally Funded) Research

Trends:

**Actuals (AWARDS):**
- FY22: $1,276,064,968
- GTRI: up 6.4% and $50.4 million ($832.9 million in FY22 vs. $782.5 million in FY21)
- RI (all GT other than GTRI): up 6.6% and $27.4 million ($443.2 million in FY22 vs. $415.7 million in FY21)
- GT Overall: up 6.5% and $77.8 million ($1.276 billion in FY22 vs. $1.198 billion in FY21)

**Actuals (EXPENDITURES):**
- FY22: $1,117,855,645
- GTRI: up 16.3% and $97.2 million ($693.4 million in FY22 vs. $596.1 million in FY21)
- RI: up 11.5% and $43.6 million ($424.0 million in FY22 vs. $380.4 million in FY21)
- GT Overall: up 14.4% and $140.8 million ($1.117 billion in FY22 vs. $976.6 million in FY21)
Interdisciplinary Research Institutes at GT

Mission:

Interdisciplinary Research Institutes (IRIs) bring together researchers from different disciplines to address topics of strategic importance to Georgia Tech.

IRIs enable researchers to achieve goals that cannot be met within other structures at Georgia Tech. Faculty and students from all 6 colleges and 28 schools as well as GTRI participate in IRI activities, combining their different sources of expertise, interests, and approaches to pose new research questions, respond to existing challenges, and advance technology to improve the human condition.
Interdisciplinary Research Institutes at GT

Mission:
Interdisciplinary Research Institutes (IRIs) bring together researchers from different disciplines to address topics of strategic importance to Georgia Tech.

- mobilize faculty to address needs of external stakeholders (federal, state and local entities, corporations, foundations, communities)
- translate research into specific outcomes: technology transfer, education, outreach
- make faculty more competitive for extramural funds by providing equipment, space, staff support
- provide students with hands-on, experiential learning in a research environment

http://research.gatech.edu/interdisciplinary-research-institutes
Interdisciplinary Research Institutes at GT

http://research.gatech.edu/interdisciplinary-research-institutes
IRI Themes: Sustainability, Climate, Energy

Bioengineering and Bioscience

Data Engineering and Science

Electronics and Nanotechnology

Energy

Manufacturing

Materials

People and Technology

Renewable Bioproducts

Robotics

Sustainable Systems

http://research.gatech.edu/interdisciplinary-research-institutes
IRI Themes: Human Health & Activity

Bioengineering and Bioscience
Data Engineering and Science
Electronics and Nanotechnology
Energy
Manufacturing
Materials
People and Technology
Renewable Bioproducts
Robotics
Sustainable Systems

http://research.gatech.edu/interdisciplinary-research-institutes
Research and scholarship are integral to faculty life

- Research and scholarship contribute to education, and educating students contributes to research.
- GT is especially known for support of collaborative and transdisciplinary research.
- Each GT school and college sets research expectations for promotion and tenure, which are awarded at the institute level.
- Over the course of a career, faculty-driven research evolves.
- The faculty handbook explains your rights and responsibilities.

http://research.gatech.edu/interdisciplinary-research-institutes
Discussion
RESOURCES

New Faculty Academy

Office of Faculty Professional Development Programming

One-on-One Coaching

Vice Provost for Faculty Website
60-Minute Lunch Break
Senior Vice Provost for Education and Learning

Dr. Larry Jacobs
Teaching and Learning at Tech

Dr. Joyce Weinsheimer
Director, Center for Teaching and Learning

Dr. David Lawrence
Associate Director, Center for Teaching and Learning
Student Experience

Breakouts:
Two 30-minute sessions

- Table 1 Classroom Experience
- Table 2 Student Well-Being
- Table 3 Student DEI
- Table 4 LGBTQIA Resources
- Table 5 Undergraduate Research and VIP
- Table 6 Graduate Students and Postdocs
- Table 7 Serve-Learn-Sustain
15-Minute Break
What I Wish I’d Known as a New Faculty Member

Dr. Jake Soper
College of Sciences

Dr. Jacqueline Garner
Scheller College of Business

Dr. Mitchell Walker
College of Engineering

Dr. Pardis Pishdad-Bozorgi
College of Design

Dr. Xiuwei Zhang
College of Computing
Wrap-up and Reflection
New Faculty Academy Orientation

Enjoy the reception!