



## Annual Report

July 1, 2019 – June 30, 2020

Submitted by  
Walter B. Fain, Ph.D.  
Executive Director

CACP continues to thrive and successfully executed another year of innovative scholarship and funded research. Over the last 12 months, we have applied our expertise and commitment to research excellence toward solving new problems that face humanity, government, and industry. This report documents our past accomplishments and our vision for how we will continue to evolve in the years to come.

In March 2020, the entire globe was impacted by the response to the COVID-19 pandemic. The CACP team quickly adjusted to the new reality to execute the projects in our portfolio while working from home under the guidance provided by USG and the State of Georgia. We experienced and overcome many of the challenges resulting from conducting research in a pandemic. Our researchers quickly adopted new collaborative tools and established virtual team meetings to ensure we were able to continue to meet our commitments. Some research, such as research requiring in-person or in-home human subject researcher, was postponed in accordance with IRB guidance. We transitioned the Emory MCI project from an in-home study to a virtual study within 4-weeks allowing us to continue execution of the research goals while in quarantine. Other projects were rescheduled as necessary to accommodate the changes in our availability to conduct in-person research and the sponsor's availability to meet with us in person. As a result of the COVID-19 response, we canceled the State of Technology Conference for the Wireless RERC that was scheduled to occur Spring 2020.

CACP was able to successfully respond to a number of COVID-19 related opportunities to contribute to the overall scientific knowledge about the pandemic and how we address the needs of the community. For example, Sarah Farmer was awarded \$1,243,547 under NIH's RADx program to utilize HomeLab to establish a usability testbed for in-home or in-clinic COVID-19 test kits.

OTHER COVID-19 RELATED AWARDS:

EVPR COVID-19 Rapid Response Seed Grant Program:

- COVID-19 Information Access & Vulnerable Populations
- Accessibility and Usability of Online Platforms for Instruction and Academic Support

Our strategic vision for this year has been threefold. First, we have leveraged relationships across campus to form a coalition of researchers interested in collaborating on projects with social impact, ranging from local to global in scale. We have increased our sponsored involvement in a campus program to empower people living with Mild Cognitive Impairment. This year we launched the in-home portion of the product under HomeLab and participated in the successful launch of a day use facility in Emory's Executive Park (EP6). The day use facility is outfitted with an array of sensors to measure the impact of intervention and care programs so that they may be continuously adjusted and tailored to the individual. We continued to grow our applied accessibility and usability industry research work by executing sponsored programs for voting systems and office equipment. Finally, we have fostered the professional curiosity and passions of CACP staff members by finding new opportunities for multidisciplinary collaboration. Encouraging existing researchers to reach beyond their current research interests has launched us in a direction of growth that we will continue to foster.

This year CACP has focused on applied problems of national and international relevance spanning across diverse research and development interests. We welcomed the successful Center for the Development and Applications of Internet of Things Technologies (CDAIT) into CACP. CDAIT moved from GTRI to CACP June 2020 and Dr. Paul Baker was named as the interim project director. Paul will lead CDAIT into new area of research at the intersection of IoT, policy, education, and community. CACP has completed assessments of local and global policy issues, the production of regulatory filings, the identification of future options for innovation, and the articulation of a clearer vision of the ever-changing technology landscape. Research areas included wireless communications and platforms; technology use by vulnerable populations including people with disabilities and older adults; emergency alerts and communications; STEM (science, technology, engineering, and mathematics) education and workforce development; and the impact of technology shifts, such as Internet of Things and Smart wearables. CACP collaborated with government, industry and academia at the local, state, national and international levels. In addition, CACP participated in the Ivan Allen College activities through mentoring students and independent studies. CACP also continued collaborative educational efforts by working with institutions within the University System of Georgia, Technical College System of Georgia, and Emory University. CACP contributed to the goals of the Georgia Tech Strategic Plan, by fulfilling one of its key objectives, to "understand and influence connections between technology and policy."

Within this document, CACP summarized highlights of the past year's efforts from our researchers and technical staff. The report is divided into eleven areas: Instruction and Appointments (pg. 3); Research and Creative Scholarship (pg. 6); Citations (pg. 12) Academic and Service Activities (pg. 13); Dissemination Activities (pg. 15); Summative Collaborations & Meetings (pg. 19); Board Memberships and National Recognition (pg.

25); Sponsored Funding (pg. 27); Collaborative Efforts (pg. 30); CACP Goals for 2017-2022 (pg. 31); CACP Organizational Chart (pg. 33); and CACP Website Analytics (pg. 34).

This year there were more than 14 publishing activities; 12 major engagements and conferences; active participation on 31 academic and service activities; 4 student assistantships or advisory roles by faculty of CACP; and 34 memberships on boards/committees or national recognition. Sponsored research was funded at **\$5,075,400**. CACP staff/faculty participated in more than 596 meetings with external/internal organizations and/or their representatives.

## INSTRUCTION AND APPOINTMENTS

### **Paul M.A. Baker, Ph.D.:**

Senior Director, Research and Strategic Innovation, and Principal Research Scientist, Center for Advanced Communications Policy (CACP)

Faculty, Institute for People and Technology, January 2011 – present

Faculty, GVU, January 2010 – present

Faculty, Wearable Computing Center, January 2015 – present

Faculty, C21U, 2012 – present

Co-chair, CDAIT Thought Leadership Working Group, January 2017 – present

### **Megan Denham:**

Senior Research Associate, GTRI, Center for Advanced Communications Policy (CACP)

### **Jeff Evans:**

Director, Digital Transformation of Things, GTRI, Center for Advanced Communications Policy (CACP)

### **Brad Fain, Ph.D.:**

Principal Research Scientist, GTRI, CACP

Executive Director, Center for Advanced Communications Policy (CACP)  
February 2019 – present

Affiliated Researcher, Institute for People and Technology (IPaT)  
Affiliated Researcher, Center for the Development and Application of IoT (CDAIT)

Fellow, WellStar Health System, 2016 – present  
Member, HFES Product Evaluation Subcommittee 2019 – present

Member, Human Engineering Working Group for F-16 Block 30 Fighter Aircraft, Participated in quarterly meetings at Hill AFB, Utah

Advising:

Nicole Kosoris, Doctoral Student  
Georgia Institute of Technology,  
College of Computing, 2018 - present

**Sarah Farmer:**

Research Scientist I, GTRI, Center for Advanced Communications Policy (CACP)

**Salimah LaForce:**

Senior Policy Analyst, Center for Advanced Communications Policy, Georgia Institute of Technology - 2006 to present

Advising:

Dara Bright, Graduate Research Assistant  
Master's Student, School of Public Policy  
Georgia Institute of Technology  
July 2018 – Present

Kameron Barrow, Undergraduate Research Assistant,  
School of Literature, Media, and Communication,  
Ivan Allen College of Liberal Arts, Georgia Institute of Technology  
June 2019 – Present

**Maureen Linden:**

Senior Research Engineer, Center for Advanced Communications Policy (CACP)  
Senior Research Engineer, Center for Inclusive Design and Innovation (CIDI),  
Georgia Institute of Technology

**Helena Mitchell, Ph.D.:**

Regents' Researcher Emeritus, Ivan Allen College 2019 - Present

Visiting Professor, Amity University, London, England 2018 - Present

Board of Trustees, American College of Greece 2018 - Present

Advising:

Natasha Malmin, Doctorate Student  
Dissertation Committee July 2018 - Present  
Joint – Andrew Young School of Policy Studies, Georgia State University and School of Public Policy, Georgia Institute of Technology, Completed Major Area Paper December 2019

Dara Bright, Master's Student  
Independent Study PUBP 8803, Fall 2019  
School of Public Policy  
Georgia Institute of Technology

**Nathan W. Moon, Ph.D.:**

Senior Research Scientist, School of Public Policy 2017 - Present

Director of Research, Center for Advanced Communications Policy (CACCP) 2017 - Present

Part-Time Lecturer, School of History and Sociology (HSOC) 2011 - Present

Faculty, School of Science and Technology, Georgia Gwinnett College, 2016-present

Affiliated Researcher, Institute for People and Technology (IPaT) 2016 - Present

Guest lecturer SPP 6502. Nathan led a discussion on "Information & Communications Policy: Disability and Access."

Guest lecturer SPP 6001. Nathan and Professor Milton Mueller led a discussion on "Communications, Internet & Cybersecurity Policy."

Lorin Robinson

Research Scientist I, Center for Advanced  
Communications Policy (CACP)  
November 2019 - Present

## RESEARCH AND CREATIVE SCHOLARSHIP

### **Books and Books Chapters (1)**

Bennett, D., LaForce, S., Linden, M. "Quasi-experimental research in the wild: Walking the line between quantitative and qualitative," in Research Methods of Disaster and Emergency Management: Approaches in Application (Rivera, J.D., Ed.), Routledge - (accepted 2020).

### **Journal Articles, Papers and Conference Proceedings (refereed) (7)**

Baker, P.M.A., Gaspard, H. and Zhu, J. (2020). North American Perspectives on Geography of Policy Innovation, Industry 4.0 and the Digitalization of Work. To be published in a special Industry 4.0/Digitization issue of *European Planning Studies* (forthcoming).

CHEN, Xiang-dong, ZHANG, Feng, and Baker, P.M.A. (2020). Gig economy and sharing economy to rebuild and enhance labor. *China Soft Science* (No.1, 2020, pp 21-29)  
[http://www.cssm.com.cn/ch/reader/view\\_news.aspx?id=20200320164943001](http://www.cssm.com.cn/ch/reader/view_news.aspx?id=20200320164943001)

Denker, A.H. and Baker, P.M.A. (2020). Digital Tech for Inclusive Aging: Usability, Design and Policy. *Journal on Technology and Persons with Disabilities*, Volume 7, 2020, PP. 255-264.

Moon, N., Griffiths, P., LaForce, S., Linden, M. "Survey of User Needs (SUN) for Wireless Devices: Key Findings" 35<sup>th</sup> International Technology & Persons with Disabilities Conference (CSUN), Anaheim from March 9 to March 13, 2020.

Moon, N., Griffiths, P., LaForce, S., Linden, M. (2020). "Wireless Device Use by Individuals with Disabilities: Findings from a National Survey." *Journal on Technology and Persons with Disabilities*, Vol. 8, 194-207.

Moon, N.W., Baker, P.M.A., Goughnour, K.P. (2019). Designing wearable technologies for users with disabilities: Accessibility, usability, and connectivity factors. *Journal of Rehabilitation and Assistive Technologies Engineering*, 6, 2055668319862137. August.

Remillard E., Fausset C., Fain, W. (2019) Aging with long-term mobility impairment: Maintaining activities of daily living via selection, optimization, and compensation. *The Gerontologist*.

### **Publications non-refereed (6)**

Baker, P.M.A. (2020, April 3). Comments submitted in response to request for Comments on draft 2020-2025 Federal Health IT Strategic Plan, Office of the National Coordinator for Health Information Technology, United States Department of Health and Human Services.

Fain, W. (2019). Food Packaging Design: Accessibility Guidelines ([https://www.arthritis.org.nz/wpcontent/uploads/2019/02/PAC\\_ArthritisGuidelines.pdf](https://www.arthritis.org.nz/wpcontent/uploads/2019/02/PAC_ArthritisGuidelines.pdf).) Arthritis New Zealand.

LaForce, S., Bright, D., Moon, N., Helena, M., Baker, P.M.A. (2020, April 14). Comments submitted in response to the Public Notice in the Matter of The Accessibility of Communications Technologies for the 2018 Biennial Report Required by the Twenty-First Century Communications and Video Accessibility Act [CG Docket No. 10-213, Consumer and Governmental Affairs Bureau]. Federal Communications Commission: Washington, D.C.

LaForce, S. Senior Editor, *Technology & Disability Policy Highlights Newsletter (TDPH)* (12 issues) produced by the Center for Advanced Communications Policy (CACP), Georgia Institute of Technology. TDPH provides a monthly report on national and local public policy events and recent wireless technological advances and political activities at the intersection of disabilities. Retrieved from [TDPH website](#).

Moon, N.W., under center authorship - Center for Advanced Communications Policy. (February 2020). University System of Georgia (USG) University System of Georgia (USG) STEM IV Initiative: Year 1 Mid-Year Evaluation Report. Report for the Board of Regents of the University System of Georgia, USG STEM Initiative, Atlanta, Georgia.

Moon, N.W., under center authorship - Center for Advanced Communications Policy. (July 2019). University System of Georgia (USG) STEM III Initiative: Summary Evaluation Findings and Recommendations for Revision. Report for the Board of Regents of the University System of Georgia, USG STEM Initiative, Atlanta, Georgia.

### **Filings on Rulemakings to the Federal Communications Commission, Washington, D.C. and other federal agencies (4)**

## [Wireless RERC on The Record: Accessibility of New Communications Technologies and Lifeline-Provided Mobile Phones](#)

LaForce, S., Bright, D., Moon, N., Helena, M., Baker, P.M.A. (2020, April 14). Comments submitted in response to the Public Notice in the Matter of The Accessibility of Communications Technologies for the 2018 Biennial Report Required by the Twenty-First Century Communications and Video Accessibility Act [CG Docket No. 10-213, Consumer and Governmental Affairs Bureau]. Federal Communications Commission: Washington, D.C.

April 2020 - The Wireless RERC submitted comments to the Federal Communications Commission in response to their Public Notice *In the Matter of The Accessibility of Communications Technologies for the 2020 Biennial Report Required by the Twenty-First Century Communications and Video Accessibility Act* [CG Docket No. 10-213]. In anticipation of the Public Notice, the Wireless RERC conducted a 2019/20<sup>21</sup> Mobile Phone Accessibility Review (Accessibility Review/Review). The Review included mobile phone models available up to February 2020 from the top four wireless carriers, one prepaid carrier, and five Lifeline Carriers.<sup>22</sup> Data analysis for the Review is still underway and will inform future comments in response to the FCC's Preliminary Findings Report. For this filing, however, we provided input based on the analysis of the subsample of Lifeline-provided mobile phones. Additionally, the comments were informed by the results of our cornerstone survey on wireless technology use by people with disabilities, the [Survey of User Needs](#) (SUN). Overall, the comments indicated the industry's growth in the accessibility and affordability of advanced communications technologies, as evidenced by the increasing presence and richness of new accessibility features on Lifeline-provided mobile devices. Furthermore, SUN analysis found that a majority of respondents with disabilities indicated that both basic cell phones and smartphones were easy to use. However, some access gaps remain, particularly regarding new communications technologies. Based on the data presented in the comments, the Wireless RERC offered the following recommendations:

- To better ensure access to emergency alerts for users with disabilities that prefer non-smartphones, increase the percentage of non-smartphones that are WEA-capable.
- To improve total access to the systems and devices, companies should explore and develop solutions for how one who is blind would be able to independently set-up the technology.
- Increased attention should be paid to ensuring access by people who are Deaf to smart speaker technologies that have a screen (e.g., Amazon Echo Show), such as the development of a gesture interface that understands ASL.
- To improve access by those with non-standard speech to smart speakers and voice input on mobile devices, we encourage the inclusion of AI that has been trained to understand those with atypical speech patterns.



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[1] Phone models were identified in October 2019, and again in February 2020, at which time, additional phone models were available.

[2] A random number generator was used to select five Lifeline carriers for inclusion in the review.

Related Files: [wrerc\\_comments\\_april\\_2020\\_final-cvaa\\_2020\\_report\\_to\\_congress.pdf](#)

Baker, P.M.A. (2020, April 3). Comments submitted in response to request for Comments on draft 2020-2025 Federal Health IT Strategic Plan, Office of the National Coordinator for Health Information Technology, United States Department of Health and Human Services.

#### **[Wireless RERC Input to FEMA's Comprehensive Preparedness Guide 101](#)**

LaForce, S. & Housley, D. (2020). Recommendations submitted to FEMA's Call for Stakeholder Input to Update comments/recommendations to FEMA's update of their *Comprehensive Preparedness Guide 101: Developing and Maintaining Emergency Operations Plans*.

January 2020 - Salimah LaForce, Wireless RERC and Danny Housley, Center for Inclusive Designs and Innovation, provided input to the Federal Emergency Management Agency's 2020 Revision of Comprehensive Preparedness Guide 101: Developing and Maintaining Emergency Operations Plans. The last time the Guide was updated was in 2010, predating the commercial availability of Wireless Emergency Alerts. As such, recommendations were made to update the communications sections to make reference to mobile emergency alerting and to include guidance on elements of accessible emergency messaging. We also recommend that they expand their hazard and risk assessment section to highlight that some people in the jurisdiction may be particularly at risk during and in the wake of disaster. These include people who rely on electrical power to operate their life-sustaining durable medical equipment at home. Also, people who rely on assistive technologies to communicate and/or navigate their environments. Also, beyond the identification of populations who have increased risk of harm during emergency events, we recommended advising jurisdictions to assess their capabilities and resources to respond to those that have been identified as needing "additional assistance." For example, through registries of people with disabilities never account for all people with disabilities that live in the jurisdiction, those that have registered have the expectation that "help is on the way." Help is not always on the way due to a variety of reasons not always under the emergency response personnel's control. What can be controlled, however, is incorporating a response plan specifically for the people on the registries and others identified as needing "additional assistance...in

advance of, during, and following an emergency." Other issues addressed include:

- References to people with Limited English Proficiency mentioning people whose first language is American Sign Language (ASL), because they are not always thought of as needing language accommodation.
- Use of the term special in relation to needs and how it can create or reinforce a cognitive bias.
- Specifically mentioning assistive technology (AT), and the importance of not separating a person from their AT.
- Having AT readily available in a shelter situation.

Related Files: [cpg101\\_feedback\\_laforce\\_and\\_housley\\_20200114.xlsx](#)

### **Wireless RERC on the Record: Survey Dissemination via a WEA Message**

October 2019 - The Wireless RERC submitted a letter to the FCC responding to their notice regarding Information Collection Being Reviewed by the Federal Communications Commission: Enhanced Geo-Targeted Wireless Emergency Alerts [WT Docket No. 10-254; DA 12-1745]. We supported the FCC's initiative to collect data on the geo-targeting capabilities of WEA messages using an embedded link to the survey within the message. The proposed data collection method will improve the ecological validity of the survey results, as the survey will be taken in an uncontrived setting. Our letter also recommended that the FCC, at a later date, consider collecting data on factors impacting WEA efficacy for people with disabilities.

Related Files: [10.2019\\_wrerc\\_letter\\_to\\_fcc\\_survey\\_wea\\_performance.pdf](#)

### **Wireless RERC on the Record – Video Relay Services on Public and Enterprise Video Phones**

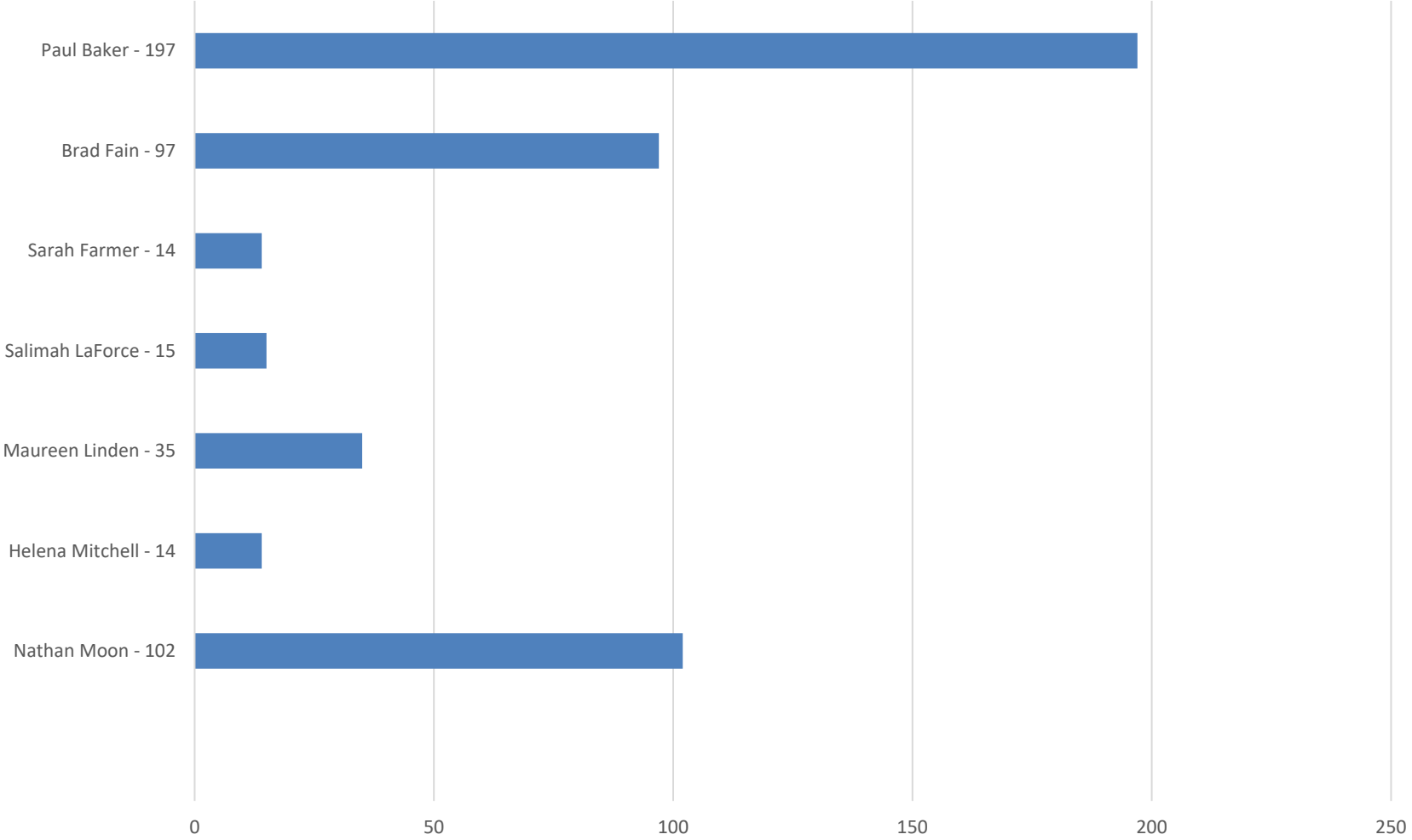
LaForce, S., Mitchell, H., & Lucia, F. (2019, September 4). Reply comments submitted in response to the Further Notice of Proposed Rulemaking in the Matter of Improving Video Relay Service and Direct Video Calling [CG Docket No. s 10-51 and 03-123]. Federal Communications Commission: Washington, D.C.

September 2019 – The Wireless RERC submitted reply comments to the FCC's Further Notice of Proposed Rulemaking *Improving Video Relay Service and Direct Video Calling* [CG Docket No. s 10-51 and 03-123]. The Wireless RERC supported consumer and provider stakeholders' opposition to requiring a log-in for users of enterprise and public videophones. As asserted by the Consumer Groups, such a requirement runs counter to functional equivalency as defined by the Section 255 of the Americans with Disabilities Act, the Telecommunications Act of 1996, and the Twenty-First Century Communications and Video Accessibility Act of 2010. To the Wireless RERC's knowledge, no person without a disability in the workplace or public places such as a hospital or airport is required to log-in to use a business or public telephone.

Further, as stated by the Consumer Groups, “there are some VRS users whose cognitive abilities may not be sufficient to enter their VRS telephone number on demand, much less a PIN.<sup>[1]</sup>” In support of this assertion, the Wireless RERC noted that approximately 2,835,949 non-institutionalized civilians are living with comorbid hearing and cognitive disabilities.<sup>[2]</sup> Cognitive domains impacted could include memory recall and memorizing ability. Also, the Wireless RERC agreed with and supported Convo’s assertion that “The best method to ensure that these public or enterprise devices are not misused remains what is already the current standard industry practice, VIs will disconnect a call when it is clear that the caller does not use or need ASL to telecommunicate.<sup>[3]</sup>” Not only does this practice relieve the consumer of burden, but it is also a less costly solution, in time and capital, compared to implementing a password or PIN safeguard. To read the full document, visit:

[https://ecfsapi.fcc.gov/file/1090478182582/Wireless%20RERC\\_Reply%20Comments\\_Improving%20VRS.pdf](https://ecfsapi.fcc.gov/file/1090478182582/Wireless%20RERC_Reply%20Comments_Improving%20VRS.pdf)

# CITATIONS



## ACADEMIC AND SERVICE ACTIVITIES

### ACADEMIC ACTIVITIES (16)

#### Paul Baker (3)

Faculty Representative, Institute Research Faculty Promotions Committee  
Georgia Institute of Technology, 2017- Present.

Ivan Allen College Faculty Advisory Board (FAB) 2019 – Present.

Faculty Representative, Provost's Advisory Committee on Academic Scheduling  
Georgia Institute of Technology, 2017 – September 2019.

#### Brad Fain (1)

Track Chair, Southern Gerontology Society, 2017-2020. Technology and Aging  
Track.

#### Salimah LaForce (1)

Ivan Allen College Diversity and Inclusion Council, December 2019 – Present.

#### Maureen Linden (2)

Member, Georgia Institute of Technology Research Faculty Promotions  
Committee, 2020

Member, Search Committee, Administrative Manager, Center for Advanced  
Communications Policy, 2019-2020.

#### Helena Mitchell (3)

Search Committee, EVPR, Three positions; Research Development Specialist;  
Director Grant Hatchery; Director of Research Development, 2019 – Present.

Member, IAC Diversity, Equality and Inclusion Council.

Coordinated visits of undergraduate applicants and their parents to SPP.

#### Nathan Moon (6)

Chair and Elected Member, Georgia Tech Faculty Honors Committee (Standing  
Committee of Georgia Tech Faculty Senate), 2014-2020.

Chair, CACP Research Faculty Promotions Committee (Center-level)

Participant, NSF Workshop, AccessINCLUDES: Accessibility and Disability in the INCLUDES National Network Conference, Seattle, Washington, February 21-22, 2019.

Participant, "Roundtable – Accessibility at Georgia Tech" and "Roundtable – Future of Learning Inclusion and the Future of Work," Microsoft Accessibility and GT Office of Development, March 25, 2019.

Participant, "Focus Group Discussion – Smart Campus Digital Inclusion Maturity Model for Higher Education," Microsoft Accessibility and IAAP, August 16, 2019.

Judge, Georgia Tech 2020 InVenture Prize Preliminary Round.

## **SERVICE ACTIVITIES (15)**

### **Paul Baker (5)**

Advisory Board, Georgia Digital Summit, 2019 – Present (Alternate for Helena Mitchell).

Co-chair, CDAIT Thought Leadership Working Group, January 2017 – present.

Peer Reviewer, U.S. Department of Education, (FY) 2019 Minority Science and Engineering Improvement Program (MSEIP), August 2019.

Peer Reviewer, U.S. Department of Education, (FY) 2020 Developing Hispanic-Serving Institutions (DHSI) Program Grant Competition, April 2020.

External examiner, University of Sydney, Candidate: Robert Wayne Hawkins, Doctor of Arts. Thesis Title: Please Hold: Australia's Communication Policy Response to the United Nations Convention on the Rights of Persons with Disabilities. From: Higher Degree by Research Administrative Centre, April 27, 2020.

### **Brad Fain (2)**

MARTA Accessibility Committee – Design Subcommittee Member, 2017 – Present.

HFES National Office Task Force on Product Evaluations, Member, 2019 – Present.

### **Salimah LaForce (1)**

Founding Member and Annual Donor, Soaring Owls Foundation, Inc. (SOFI): SOFI's purpose is to acquire and distribute financial and other resources to reach

long-term goals for the enrichment of academic and other programs so that all Bolton Academy students achieve high levels of excellence. May 2013 – present.

### **Helena Mitchell (4)**

National Task Force member, Council of State Governments, 2019 - Present.

Advisory Board, Georgia Digital Summit, 2012 – Present.

Georgia Leadership Committee, Syracuse University (SU) Volunteer Summit, 2019

Hosted Syracuse University Salon event to attract SU alum to serve as sponsors for potential graduate students interested in attending Georgia Tech or USG schools.

### **Nathan Moon (3)**

Reviewer, *Assistive Technology*, 2019-2020.

Peer Review Panelist and Site Visitor (Gallaudet University, Washington, DC), NIDILRR, RERC on Technology for People who are Deaf or Hard of Hearing

Co-Chair (Transitioning from Chair to Member), RESNA Government Affairs Committee (GAC), including several sign-ons

## **DISSEMINATION ACTIVITIES**

*Items in this section have not been counted in other categories.*

### **MAJOR PUBLIC AND INDUSTRY ENGAGEMENT (12)**

#### **CACP Researchers present papers at 2020 CSUN Assistive Technology Conference**

CACP Researchers presented several papers at the 2020 CSUN Assistive Technology Conference, March 10-13<sup>th</sup> in Anaheim, CA. Presentations included:

Salimah LaForce: "The Accessibility Divide in the Mobile Phone Market" <https://www.csun.edu/cod/conference/sessions/index.php/public/presentations/view/4767>

Nathan W. Moon and Salimah LaForce: "Wireless Device Use by Individuals with Disabilities: Findings from a National Survey" <https://www.csun.edu/cod/conference/sessions/index.php/public/presentations/view/4749>

Paul M.A. Baker: "Digital Tech for Inclusive Aging: Usability/Design & Policy" <https://www.csun.edu/cod/conference/sessions/index.php/public/presentations/view/4754>

The CSUN Assistive Technology Conference is the largest conference of its kind, attracting an audience of over 4,500 researchers, practitioners, educators, government representatives, end users and other participants. <https://www.csun.edu/cod/conference/>

### **CACP Researchers Attend CES 2020**

CACP Executive Director Brad Fain and Research Scientist Sarah Farmer attended the 2020 Consumer Electronics Show (CES) January 6-11, in Las Vegas, Nevada. The key objective was obtaining a sense of upcoming technologies that were focused on or had components of accessibility and usability, or could enhance the quality of life for people with disabilities, the aging, and other vulnerable populations. Specific areas included meeting with NIST's Public Safety Communication Research Division and other first responder related communication technology companies. Sarah Farmer represented Georgia Tech's HomeLab. HomeLab is a network of 600 older adults, adults with disabilities, and families with children managing chronic illnesses that participate in a variety of research programs managed by CACP.

### **Helena Mitchell attended Council of State Governments National Conference, San Juan, Puerto Rico**

Helena Mitchell attended the Council of State Governments National Conference, December 4-7, 2019 in San Juan, Puerto Rico, as a member of the Future of the Workforce: Innovations in Disabilities Task Force. The Final Report of the Task Force makes recommendations on the gig economy, autonomous vehicles, employment, better workforce training and policies to promote universal design principles.

### **Paul M.A. Baker, keynote speaker on Workforces at China Shipbuilders Association**

Paul M.A. Baker was an invited keynote speaker at the Intellectual Property (IP) in manufacturing sectors (shipbuilding) in China Conference, hosted by Ship Building National Association of China, Zhenjiang, PRC on November 18, 2019. He spoke on "Innovation Networks, Platform Intermediaries, and Trends in IT Workforce."

### **Mitchell attended Carolinas Alliance for Success in Education (CASE) Summit**

Regents' Researcher Helena Mitchell attended the 2019 Carolinas Alliance for Success in Education (CASE) Summit, November 14-15, 2019, in Charlotte, North Carolina. Mitchell was a facilitator for the November 14th "Critical Conversations" session, and a luncheon panelist for a discussion of "HBCU Telecommunications Infrastructure: Past-Present-Future," on November 15th. The CASE Summit is sponsored by Johnson C. Smith University in partnership with the National Telecommunications & Information Administration, and the White House Initiative on Historically Black Colleges and Universities.

### **HEWG November 2019**

Dr. Brad Fain traveled to Hill AFB in Utah on November 4-7, 2019 to present potential cockpit design modifications to the F-16 SPO. Dr. Fain met with a team of pilots to



discuss an upcoming simulation event where new cockpit design concepts will be tested during simulated combat. Dr. Fain also presented plans for developing a new 3-D audio set for threat warning.

### **CACP Researcher attends APA Conference**

Salimah LaForce, attended the American Psychological Association conference held on October 3-5, 2019 in Washington D.C. As a member of the American Psychological Association, LorForce's work with CACP lies in shared areas of interest through the lenses of the mind, the brain, and behavior. These included, among other things, the use of virtual reality in the delivery of mental healthcare services, other tele-mental health applications, research using biosensors to quantify stress levels and other psychological states, the "science of learning and augmented intelligence," "The Future of Work at the Human-Technology Frontier," stealth assessment in games to measure 21<sup>st</sup>-century competencies, evidence-centered design, and the use of virtual reality to understand police officer bias and behaviors in the field.

### **CACP Staff Activities at Georgia Digital Government Summit 2019**

CACP was well represented at the recent Georgia Digital Government Summit (<https://events.govtech.com/Georgia-Digital-Government-Summit.html>) held in Atlanta, Georgia on September 23-24, 2019. Aside from attending the many sessions, researchers made two panel presentations. CACP researchers Nathan Moon and Paul M.A. Baker delivered a presentation for the "Accessibility and the Engaged Citizen" panel, and Paul M.A. Baker was a panelist on the "Smart Communities" panel.

### **Linden provides Keynote Speech at i-CREATE 2019 in Canberra, Australia**

Maureen Linden was invited by the Coalition on Rehabilitation Engineering and Assistive Technology, Asia (CREATEAsia) to present the keynote for their 13<sup>th</sup> International Convention on Rehabilitation Engineering and Assistive Technology, which was held August 26 – 29, 2019 at the National Convention Center in Canberra, Australian Capital Territory, Australia. CREATEAsia is an alliance of agencies interested in promoting the development, provision, and use of assistive technologies across the Asia Pacific region. Linden's keynote detailed how credentialing and licensure of assistive technology professionals can be best implemented to ensure quality services are provided to people with disabilities, and the relationship of credentialed professionals to the accreditation process for related post-secondary academic programs. The presentation was well-received by over 200 individuals representing assistive technology practitioners, researchers, educators, industry representatives, and government officials from each of CREATEAsia's eleven countries.

### **HEWG August 2019**

Dr. Brad Fain traveled to Hill AFB in Utah on August 12-15, 2019 to present potential cockpit design modifications to the F-16 SPO. Dr. Fain met with a team of pilots to discuss information requirements and design modifications to increase safety and efficiency of the F-16 platform during combat.

### **Baker Presents Paper at 2019 APPAM International Conference in Barcelona**

CACP Senior Director Paul M.A. Baker presented a paper at the 2019 APPAM (Association for Public Policy Analysis and Management) International Conference held in Barcelona, Spain July 28-31. The paper, "Regional Policy and Networks of Innovation: Implications for Workforce Development and the Future(s) of Work," (Paul M.A. Baker, CACP, and Helaina Gaspard, University of Ottawa), was part of the "Emergent Technologies and their Societal Impact" panel, and explored the Future of Work, and innovation networks in the U.S. and Canada related to energy and software development.

### **Fain attends NIST Public Safety Broadband Stakeholders Conference**

Dr. Brad Fain attended the NIST PSCR Stakeholder Conference held in Chicago, IL on July 9-11, 2019. The PSCR is the primary federal laboratory conducting research, development, testing and evaluation for public safety communications technologies. Dr. Fain attended regarding the ARTEMIS VR Simulation.

### **Social Media**

#### **CACP:**

- Accessible Technology Policy Group (ATPG), established in 2009 currently has 902 members. ATPG is focused on policy development and exchange of information related to e-accessibility and inclusive design.
- The CACP Facebook page has 202 likes and 215 followers. The page was designed to share CACP news and events, as well as post relevant technology policy news items with a human interest appeal.
- The CACP Twitter feed (@CACPGT) has 1170 followers. The CACP Twitter feed's purpose is to share CACP news and events, as well as post relevant technology and policy news items.
- Salimah LaForce maintains the Facebook page for the Georgia Emergency Preparedness Coalition for People with Disabilities and Older Adults (GEPC). The page has 456 likes and 494 followers. GEPC is a key component in statewide preparedness efforts and consists of stake-holder agencies throughout Georgia. The page was designed to share relevant local, state, and national news, initiatives, and actionable information.
- Paul M.A. Baker provided social media strategic assistance to the TechSAge RERC between March & June 2019. Assistance included platform media strategy, development of a LinkedIn group, and an increase of their twitter account followers by approximately 30%.

#### **Individual:**

- Paul M.A. Baker has an IAC website at <http://paulmbaker.gatech.edu>, maintains a LinkedIn profile with 2860 connections, and a Twitter feed (@paulmbaker) with 1852 followers. He helps maintain 6 additional social media accounts for several organizations, including the Emory Alumni Group with nearly 23,700 members.
- Salimah LaForce maintains a LinkedIn profile with 630 connections and 47 group memberships, including the Association for Public Policy Analysis and Management, Behavioralizing Policy; CDC Center for Preparedness and Response (CPR); Center

for Policy on Emerging Technologies; Science, Technology & Innovation Policy; Mobile and Tablet Accessibility Forum; Mobile Future; Association of Public Policy Analysis and Management; Digital Georgia, Future Social Media; Public Warning & Mass Notification Group, and many other topical groups relevant to the CACP mission.

## SUMMATIVE COLLABORATIONS & MEETINGS

### Paul M. A. Baker

Collaborations and meetings with **the Academy:** Indiana University - Perdue University, Indianapolis (IUPUI), Emory University, Georgia State University, Kennesaw State University, Chattahoochee Technical College, George Mason University, University of Toronto, University of Ottawa, Complutense University of Madrid, National University of Ireland, Galway, Waterford Institute of Technology, Friedrich Schiller University Jena, Geneva Business School, Tsinghua University, Beijing, China, Beijing University, University of Sydney, Auckland University of Technology.

Meetings with **government agencies:** University System of Georgia, Georgia Department of Community Health, National Science Foundation, Veterans Administration, National Council on Disability, US Department of Education, United States Access Board, Administration for Community Living, CDC, US Department of Health and Human Services, Research Foundation – Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), Province of Ontario, Canada, Elections Canada, Technical College System of Georgia. German Federal Ministry of Labor and Social Affairs, U.S. State Council of Governments.

Collaborations and/or meetings with **disability and health organizations:** RERC on Aging, Center for Leadership in Disability, Children's Healthcare of Atlanta, Georgia Department of Economic Development, Rehabilitation Engineering and Assistive Technology Society of North America, USBLN, RERC on Aging (TechSAge), Smith Kettlewell Institute.

Collaborations and/or meetings with **industry:** Assistive Technology Industry Association, CTA Foundation, Comcast, AIG, AT&T, Microsoft, Friedrich Ebert Stiftung (International Trade Union Policy Foundation), Booze Allen Hamilton, Sharecare, ThyssenKrupp, American Institutes for Research, SmartMatic, Thrust Interactive, Facebook, Cox, LinkedIn, Corning, industriAll Europe, International Trade Union House (ITUH) (Brussels), Industriegewerkschaft Bergbau, Chemie, Energie (Germany), Global Federation of Competitiveness Councils, AFL-CIO.

**90** outreach meetings, collaborative discussions not reported already. Meetings generally involved discussions with potential or existing collaborators; grant opportunities; research on workforce development, policy on information and

communication technology, higher education and university-based innovation, and healthcare and technology policy.

### **Brad Fain**

Collaborations and/or meetings with **the Academy**: Emory, University of Georgia, University of Florida, and Georgia State University.

Meetings with **public and government agencies**: F-16 Program Office, Air National Guard, National Institute of Standards and Technology (NIST); Department of Homeland Security Science & Technology Directorate; National Institute for Disability Independent Living and Rehabilitation Research (NIDILRR).

Collaborations and/or meetings with **disability and non-governmental organizations**: Dementia Action Alliance, Eden Alternative, Arthritis Australia.

Collaborations and/or meetings with **industry**: Amazon, Yahoo, Pfizer, Dupont, Ricoh, Fiskars, NorthWestern Communities, Thrive, Comcast, Zimmer Biomet, Anthem, WellStar, Children's Healthcare of Atlanta, and Smartmatic.

**86** outreach meetings, collaborative discussions and technical assistance not reported already: Advisement to government agencies and industry on human factors, accessibility and usability; Letters of recommendation / support to external faculty; External student advisement and research assistance; Faculty and student interviews; Discussions on research and development collaborations with government and industry partners.

### **Sarah Farmer**

Collaborations and meetings with **the Academy**: Georgia Tech, Emory, University of Florida.

Meetings with **government agencies**: National Institute of Standards and Technology (NIST), City of Atlanta Fire Rescue Department, Georgia Tech Police Department, Cobb County Police Department, Medical Examiner Offices in Florida, Coroner Offices in Georgia, Coroner Offices in California, Centers for Disease Control and Prevention (CDC).

Collaborations and/or meetings with **disability and non-governmental organizations**: Arthritis Australia; RERC on Aging (TechSAge).

Collaborations and/or meetings with **industry**: Smartmatic, Children's Healthcare of Atlanta, Global Center for Medical Innovation (GCMI), Marcom Central, Ricoh, D.K. Lippy Construction Co./HomeFree Home Modification Aging-In-Place Services.

54 outreach meetings, collaborative discussions, and technical assistance sessions.

## Salimah LaForce

Collaborations and meetings with **the Academy**: Atlanta Public Schools (APS) Data + Information Group, Emory University, Georgia State University, Gallaudet University, Oklahoma State University, Temple University, Penn State, University of Alabama at Birmingham, University at Buffalo - The State University of New York (SUNY), University of Colorado-Denver, University of Minnesota, University of Montana, The Rural Institute, University of New Hampshire, Institute on Disability, University of Pittsburgh, University of Texas-Arlington, GT Interdepartmental: Center for Inclusive Design and Innovation (CIDI), Institute for People and Technology (IPaT), Wearable Computing Center (WCC), Interactive Media Technology Center (IMTC), Center for the Development of Applications for the Internet of Things (CDAIT), School of Psychology.

Meetings with the **public and government entities**: Alabama Department of Rehabilitation Services, Ark-Tex Council of Governments, City of Los Angeles, Charleston County, SC, Department on Disability, Colorado Public Utilities Commission, Federal Communications Commission (Office of Disability Rights, Wireless Technology Bureau), FEMA – Integrated Public Alert & Warning System, Florida Alliance for Assistive Services and Technology (FAAST), Georgia Department of Behavioral Health & Developmental Disabilities, Georgia Department of Public Health, Georgia Emergency Management Agency (GEMA), Massachusetts Rehabilitation Commission, Missouri Assistive Technology, National Emergency Number Association (NENA), North Carolina Department of Health and Human Services, State of Georgia ADA Coordinator's Office, State of Washington, U.S. Administration for Community Living, Office of Interagency Innovation, Washington State Independent Living Council.

Collaborations and/or meetings with **disability and non-governmental organizations**: Association of Assistive Technology Act Programs, Center for the Visually Impaired, Coalition on Inclusive Emergency Planning (CIEP), Easterseals Iowa, Georgia Radio Reading Service (GaRRS), Georgia Center for the Deaf and Hard of Hearing, Georgia Center for Diabetes Translation Research, Georgia Emergency Interpreting Services Network, KPS Consulting, Maryland Department of Disabilities, Mobile Manufacturers Forum, National Center on Health Physical Activity and Disability, No Town Left Behind, Smith-Kettlewell Eye Research Institute, UAB-Lakeshore Research Collaborative.

Collaborations and/or meetings with **Industry**: Accessos, AT&T, BlackBerry, Deaf Link, Inc.; The Findings Group, Government Technology magazine, Hamilton NG911, Kelley Drye & Warren LLP, Magic Leap, Microsoft, Momentum Dynamics Corporation; Rand Corporation, Together Lives Matter, T-Mobile, TracFone, Vital Signs, Well + Good.

**140** outreach meetings, collaborative discussions and technical assistance not reported already. Meetings included discussions on possible collaborations (presentations and publications); grant opportunities, public safety issues for people with disabilities, vulnerable populations and wireless technology intersections, and topics regarding national public policy agendas in advanced technologies; recruitment efforts for research; responses to inquiries via Facebook and Twitter accounts, responses to the TDPH readers.

## **Maureen Linden**

Collaborations and/or meetings with **the Academy**: University of Buffalo, Colorado University, Emory University, University of Georgia, Georgia State University, Georgetown University, George Washington University, University of Minnesota, University of Texas – Arlington, and the University of Washington.

Meetings with **public and government agencies**: Federal Emergency Management Agency (FEMA) – Integrated Public Alert & Warning System, Federal Communications Commission (Office of Disability Rights, Wireless Technology Bureau), Georgia Vocational Rehabilitation Agency (GVRA), Georgia Division of Aging Services, Department of Homeland Security Science & Technology Directorate, National Institute for Disability Independent Living and Rehabilitation Research (NIDILRR), National Science Foundation (NSF), Administration on Community Living, University System of Georgia (USG), North Carolina Department of Health and Human Services, US Department of Labor, Office of Disability Employment Policy; and the Washington State Department of Social and Health Services.

Collaborations and/or meetings with **disability and non-governmental organizations**: Assistive Technology Industry Association (ATIA), Association of Assistive Technology Act Program (ATAP), Association of University Centers on Disabilities, Council for State Administrators of Vocational Rehabilitation (CSAVR), Partnership for Inclusive Disaster Strategies, Assistive Technology Act Technical Assistance and Training Center, Idaho Assistive Technology Act Program (IATP), Global Alliance of Assistive Technology Organization (GAATO), Illinois Assistive Technology Program (IATP), EasterSeals CrossRoads – Indiana Assistive Technology Act (INDATA) Project, Assistive Technology for Kansans (ATK), North Carolina Assistive Technology Program (NCATP), Oklahoma Able Tech, Partnership for Employment and Technology (PEAT), Viscardi Center, Rehabilitation and Assistive Technology Society of North America (RESNA), Shepherd Center, Center for the Visually Impaired, RERC on Technology Transfer (T2RERC), RERC on Aging (TechSAge), and Washington Assistive Technology Act Program (WATAP).

Collaborations and/or meetings with **industry**: Amazon, Thrust Interactive, Inc., Society for Human Resource Management (SHRM); People Power Corporation, SmithBucklin, NoBarriersCommunication (NoBaComm), and Deaf Link, Inc.

**70** outreach meetings, collaborative discussions and technical assistance not reported already: Advisement to government agencies on wireless emergency communications; Letters of recommendation / support to external faculty; External students advisement and research assistance; Professional Leadership Activities including provision of budgetary consultation, governance, bylaws development, and agency growth; Consultation on Grants Management issues; Discussions on research and development collaborations with academia and industry partners.

## **Helena Mitchell**

Collaborations and meetings with **the Academy**: Georgia State University, University of Texas at Arlington, Syracuse University, Amity University (London), State University of New York-Albany, State University of New York-Brockport, American College of Greece, Gallaudet University, Atlanta University Center Consortium, Imperial College of London.

Meetings with **public and government agencies**: U.S. Department of Commerce, National Telecommunications and Information Administration; Department of Homeland Security, Science & Technology Directorate; Federal Emergency Management Agency (FEMA), IPAWS, Federal Communications Commission and various Bureaus, U.S. Access Board; National Institute for Disability, Independent Living, and Rehabilitation Research (NIDILRR), Administration for Community Living, HHS. Department of Education; U.S. State Council of Governments, City of Los Angeles, Department on Disability, ADA Technology Access Office.

Collaborations and/or meetings with **disability related organizations**: DeafLink; Shepherd Center; RERC on Aging (TechSage); RERC on Blind and Low Vision, and RERC on Assistive Communications Technology; Smith Kettlewell Institute; Georgia Radio Reading Service (GaRRS).

Collaborations and/or meetings with **industry**: T-Mobile, Blackberry Limited; CTIA-the Wireless Association; Georgia Public Broadcasting; AgComm, Rand Corporation.

**26** outreach meetings, collaborative discussions not reported already. Meetings included external and internal discussions on possible collaborations; grant opportunities; public safety issues for people with disabilities; and topics regarding national public policy agendas in advanced technologies. Plans for the SOT also lead to many interactions with industry, government, disability and NGO organizations.

## **Nathan Moon**

Collaborations and meetings with **the Academy**: University of Georgia, Georgia State University, Kennesaw State University, Columbus State University, University of West Georgia, Georgia College & State University, Georgia Southern University,

Georgia Gwinnett College, Middle Georgia State College, University of Texas at Arlington, University of Illinois-Chicago (UIC), State University of New York at Stony Brook (SUNY-Stony Brook), University of Washington, University of New Hampshire, University of Colorado, Gallaudet University, Boston University.

Meetings with **public and government agencies:** the National Institute for Disability, Independent Living, and Rehabilitation Research (NIDILRR), National Science Foundation (NSF), U.S. Access Board, U.S. Department of Health and Human Services (Centers for Medicare Services), National Council on Disability (NCD), and Office of Disability Employment Policy (ODEP), University System of Georgia (USG).

Collaborations and/or meetings with **disability related organizations:** Rehabilitation and Assistive Technology Society of North America (RESNA), Consortium for Citizens with Disabilities (CCD), Disability and Rehabilitation Research Coalition (DRRC), U.S. International Council on Disabilities (USICD), Association of Assistive Technology Act Programs (ATAP), Assistive Technology Industry Association (ATIA), Partnership for Employment and Accessible Technology (PEAT), Institute on Disability at the University of New Hampshire and Easter Seals Crossroads, Indiana.

Collaborations and/or meetings with **industry:** Microsoft Accessibility, Facebook and Amazon.

**110** outreach meetings, collaborative discussions and technical assistance not reported already: Student letters of recommendation, faculty letters of recommendation/support; external student advisement and research assistance; discussions on possible collaborations and grant opportunities. Contacts occurred with both external and internal.

## **Lorin Robinson**

Meetings with **government agencies:** U.S. Access Board and The General Services Administration (GSA)

Collaborations and/or meetings with **disability and non-governmental organizations:** National Business & Disability Council (Viscardi Center).

Collaborations and/or meetings with **industry:** Freedom Scientific; SiteImprove; Axia Group; Accessibility Track; Level Access; Ricoh.

**20** outreach meetings, collaborative discussions and technical assistance not reported already: Outreach meetings included various discussions around digital accessibility, Section 508 standards and WCAG conformance; current and future software testing activities contributed to several interactions across government agencies, disability and NGO and industry organizations.



## **MEMBERSHIPS, BOARD MEMBERSHIPS AND NATIONAL RECOGNITION**

### **Paul M.A. Baker (11)**

Chair, Research Council 11 (Politics and Science), International Political Science Association (IPSA), July 2018 – present.

Associate Editor, Assistive Technology Journal, 2006 – present.

Program Committee Member: CSEDU, the International Conference on Computer Supported Education, 2014 – present.

Member, Editorial Board, Journal of Information Technology & Politics, 2005 – present.

Member, Editorial Board, International Journal of Work Innovation, 2012– present.

Member, Editorial Board, International Journal of E-Adoption (IJEA), 2009 – present.

Member, Editorial Board, International Journal of E-Planning Research (IJEPR), 2012– present.

Member, Editorial Board, Journal of Disability Policy Studies, 2010– present.

Member, Disability and Rehabilitation Research Coalition (DRRC), 2009 – present.

Member, American Political Science Association, 1997 - Present.

Member, Association of Public Policy Analysis and Management, 2004 – present.

### **Brad Fain (4)**

Board Member, Mobility Worldwide 2016 – 2019.

Board Member, National Aging in Place Council, 2016 – 2019.

Full Member, MARTA Accessibility Committee, 2015 – present.

Member, Human Factors and Ergonomics Society, 1992 – present.

### **Sarah Farmer (1)**

Member, American Society on Aging 2020 – present.

### **Salimah LaForce (5)**

Member, American Psychological Association, 2019 – present.

Member, Emergency Notifications Working Group, National Emergency Number Association (NENA), 2018-present.

Member, Communications Modalities Working Group, National Emergency Number Association (NENA), 2018-present.

Member, Accessibility Committee, NENA, 2017-present.

Member, Georgia Emergency Preparedness Coalition for People with Disabilities & Older Adults, 2013-present.

**Maureen Linden (2)**

Board of Directors, Douglas County Animal Services Advisory Board, 2015-2021 (appointed).

RESNA President-Elect, August 2018 – Present.

**Janet McKinney (1)**

Georgia Tech Event Coordinators Network, 2018-Present.

**Helena Mitchell (5)**

Regional Council Member, Syracuse University, 2018 – Present.

Member of the Federal Communications Commission, Disability Advisory Committee (DAC). Also member of the DAC Wireless Emergency Alerts subcommittee. Reappointed 2017 – September 2019.

IAC Million Dollar Club, 2015, 2016, 2017, 2018, 2019.

Member, Broadcast Education Association, Judge, Law & Policy Division, odd years from 2009 – 2019, 2020 served as a Judge also, although conference cancelled due to COVID – 19.

Board of Trustees, American College of Greece. Served on the Education and Advancement committees. Two physical meetings during this reporting period 2018 – Present.

**Nathan W. Moon (4)**

Member, RESNA, The Rehabilitation Engineering and Assistive Technology Society of North America, 2012 - present

Member, Disability and Rehabilitation Research Coalition (DRRC), 2013 – present.

Member, American Evaluation Association, 2010 – present.

IAC Million Dollar Club, Level 2, 2019-2020.

### **Lorin Robinson (1)**

International Association of Accessibility Professionals, April 2020 – present.

## **SPONSORED FUNDING**

### **Active (22)**

Helena Mitchell, Ph.D., PI, Rehabilitation Engineering Research Center on Wireless Inclusive Technologies grant from The National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), Administration for Community Living (ACL), Department of Health and Human Services. Competitive grant program **\$4,625,000**, 09/30/2016 – 09/29/2021. **\$924,994** for fiscal year 10/01/2019 – 09/30/2020.

Nathan W. Moon, Ph.D., PI, Field Initiated Project (Research) on Contingent Employment of Individuals with Disabilities (FIP-CE), National Institute on Disability and Rehabilitation Research (NIDILRR), **\$595,000**, 36 months, 9/30/2017 – 9/29/2020. **\$198,281** for fiscal year 10/1/19 – 9/30/2020.

Nathan Moon, Ph.D, PI. Service Level Agreement between Board of Regents of the University System. 9/1/18 – 6/30/20. **\$74,416** for 21 months. **\$38,880** for FY20

Nathan Moon, Ph.D, PI (Maureen Linden, Co-PI) Accessibility and Usability of Online Platforms for Instruction and Academic Support. EVPR (GT) May 1, 2020 – July 31, 2020. **\$9,992**.

Nathan Moon, Ph.D, PI (Paul Baker – Co-PI), ARRT: Inclusive Technology and Policy Design Research Fellowships, Department of Health and Human Services Administration for Community Living. 6/1/20 – 5/31/25. **\$997,386** for 60 months. **\$199,857** for FY 20/21.

Megan Denham, Sr. Research Data Manager, Developing an Infrastructure for a Novel Personal Mobile Application in Nephrotic Syndrome to Enhance its Applicability and Scalability, Emory University. 10/1/19 – 9/30/24, **\$100,000** for 60 months. **\$100,000** for FY20.

Megan Denham, Sr. Research Data Manager, CAREER: Wearable Joint Sounds Sensing for Children with Juvenile Idiopathic Arthritis, NSF. 4/1/18 – 3/31/23, \$500,000 for 60 months. **\$100,000** for FY20. **(Megan gets \$5000.)**

Salimah LaForce, Research Associate, American Sign Language Accessible Diabetes Education, Emory University, 2/1/20 – 7/31/20 **\$31,532** for FY20.

Salimah LaForce, Research Associate, COVID-19 Information Access & Vulnerable Populations, EVPR (GT), June 1, 2020 – March 31, 2021 for **\$9,979**.

Brad Fain, Ph.D., Mild Cognitive Impairment Empowerment Program, Emory University, 5/1/19 – 9/30/22, **\$372,333** for FY20.

Brad Fain, Ph.D., Ricoh FY20 Accessibility and Usability Support A3A4 Hardware, Ricoh USA, 8/1/19 – 3/31/21. **\$56,800** for FY20.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Support Program – State of MN Software, Ricoh USA, 11/1/19 -2/28/21, **\$83,760** for 16 months.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Support Program – Production Print Hardware 2, Ricoh USA, 8/1/19 – 3/31/21, **\$49,800** for 8 months.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Support program -2019 CFP, Ricoh Americas, 5/1/19 – 2/28/20, **\$32,890** for 10 months.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Support Program – IBM Hardware 2020, 11/1/19 – 2/28/21, **\$27,000** for 16 months.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Research Support Program, Ricoh USA, 6/15/10 – 3/31/22, **\$1,045,769.87, \$44,660.63** for FY20.

Brad Fain, Ph.D., Smartmatic 2019 Tasking Phase 1, Smartmatic International, 2/11/19 – 12/10/19, **\$162,000** for 10 months.

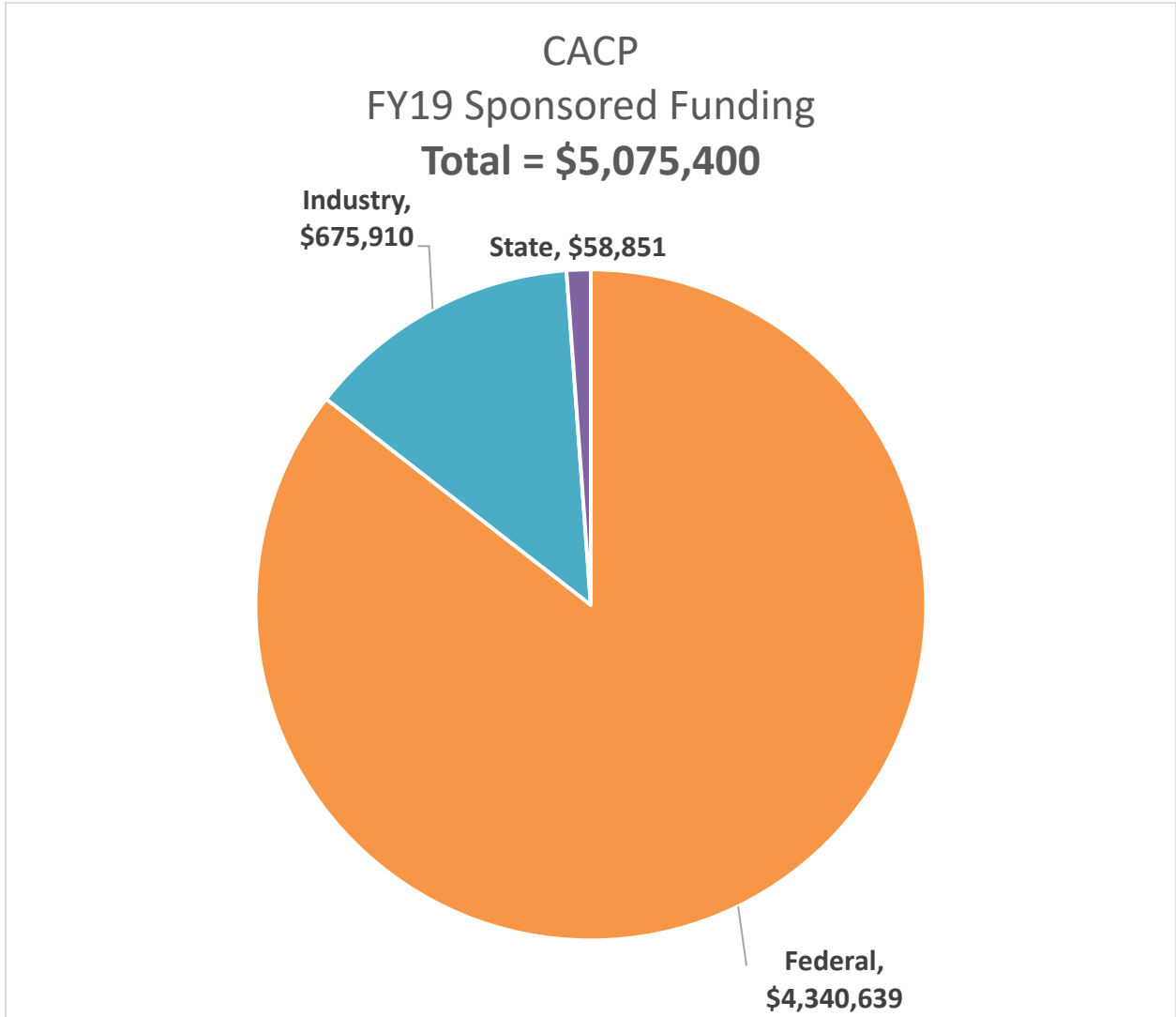
Brad Fain, Ph.D., Smartmatic LA County 2019 Summative Evaluation, Smartmatic USA, 3/11/19 – 3/11/20, **\$105,000** for 12 months.

Brad Fain, Ph.D., Smartmatic LA County 2019 ISB/BMG Formative Evaluations, Smartmatic USA, 3/20/19 – 3/19/20, **\$94,000** for 12 months.

Brad Fain, Ph.D., NIST - PSCR / Department of Commerce – ARTEMIS: FirstNet TestBed. CACP is a collaborator and funds will be leveraged for Wireless RERC emergency communication projects. **\$1,270,000** for 5/31/2018 to 5/30/2021.

Sarah Farmer, Research Scientist I, ACME POCT Rapid Acceleration of Diagnostics (RADx), Emory University (NIH), 5/1/20 – 10/31/20, **\$1,243,547**.

Sarah Farmer, Research Scientist I, Marcom Central, PTI Marketing Technologies.  
06/18/2020 – 8/18/21/2020, **\$20,000**.



# Georgia Tech Collaborative Efforts

## GEORGIA TECH/CACP AFFILIATES

### Faculty/Research Staff (on CACP sponsored grants)

- Matthew Blake, College of Design (COD)
- Carrie Bruce, College of Computing
- Young-Mi Choi, College of Design (COD)
- Maribeth Gandy Coleman, Interactive Media Technology Center (IMTC)
- Scott Gilliland, Interactive Media Technology Center (IMTC)
- Patricia Griffiths, College of Design (CoD)
- Harley Hamilton, College of Computing
- Fran Harris, College of Design (CoD)
- Brian Jones, Interactive Media Technology Center (IMTC)
- Frank Lucia, Consultant
- Liz Persaud, Tools for Life, College of Design (COD)
- Carolyn Phillips, Tools for Life, College of Design (COD)
- Noah Posner, College of Design (COD)
- Peter Presti, Interactive Media Technology Center (IMTC)
- Ken Thompson, College of Design (COD)
- Benjamin Thompson, Interactive Media Technology Center (IMTC)
- Bruce Walker, Psychology
- Jeffrey Wilson, Interactive Media Technology Center (IMTC)
- Clint Zeagler, Interactive Media Technology Center (IMTC)

## PEOPLE INVOLVED IN CENTER ACTIVITIES

### Faculty/Research Staff/Off-site Personnel

- DeeDee Bennett, University of Nebraska-Omaha
- Richard Catrambone, School of Psychology
- Kay Choido, Deaf Link
- Sara Endicott, College of Design (COD)
- Chris Langston, Facebook
- Jessica Pater, Georgia Tech Research Institute (GTRI)
- Joel Odom, GTRI
- Joiava Phillpott, Cox Communications
- Jon Sanford, College of Design (COD)
- Glenn Shell, Deaf Link
- Robert Todd, University System of Georgia (USG)

## INSTITUTIONS (on CACP sponsored grants)

- John Bricout, University of Minnesota-Twin Cities
- Eliseo Jimenez, Georgia State University
- Ben Lippincott, Shepherd Center (75% paid by CACP)
- University of Texas – Arlington
- Smith Kettlewell Institute

## GOALS 2017 – 2022

In 2017 CACP began a strategic expansion to enhance its current work portfolio by 1) building teams of new collaborators to extend CACP's reach into new markets by participating in our multiple grants, contracts, and service level agreements, and 2) exploring and developing new sponsors that leverage CACP policy and research strengths with an objective of increasing industry and other funding opportunities. Below is the summary of the strategic plan for 2017 – 2022:

### STRATEGIC PLAN SUMMARY

#### Framing the Strategic Plan

CACP's mission is to influence the development, implementation and adoption of cutting-edge, next generation social impact technologies domestically and internationally by conducting objective, evidence-based research. We develop social, economic and policy-oriented perspectives on digital technologies at the intersection of society, inclusion and policy that address client needs. Our research provides the foundation for the assessment and analysis of issues that inform our contribution to federal rulemaking, and input into public sector policy-making process.

**Key Focus:** Developing collaborative partnerships, both internal to Georgia Tech as well as with external academic and industry associates. A key strategy for expanding CACP's breadth and depth of reach is through collaboration on grants and publications. Going forward, CACP will continue to develop expertise and a research agenda built on three areas of focus:

- 1) Basic and fundamental social impact research: informs areas related to digital communications and platforms and, more broadly, connectivity; higher education policy and evaluation; STEM (science, technology, engineering, and mathematics) education, including access for students with disabilities, inclusive technology driven workforce development and employment; digitally facilitated communications modes such as social media and online participatory platforms, and the cultural impact of technology shifts;
- 2) Applied and industry-centric research and assessment: initiatives include usability and human factors assessment, use of technology to facilitate independence for older adults, accessible and inclusive technology designed for people with functional limitations; enhanced, accessible, emergency communications that affect people with disabilities, the general public, as well as first responders and other stakeholders;
- 3) Policy related initiatives: application of social science to generate assessments, analyses and other specialized products to provide insights to advise policy-makers, industry and other thought leaders; drawing on CACP's unique perspective on information and communication technologies.

#### Implementation approaches:

- 1) Identify, and target growth opportunities in the three focal areas. This includes both as project leads, as well as serving as key partners with other entities.
- 2) Reinforce awareness of potential partners of the value of CACP's research-based perspective that goes beyond a focus on "disability" to actively engage in understanding and designing inclusive solutions to technology related barriers, as well as identifying technological opportunities.
- 3) Leverage existing CACP work products to increase external awareness of the range of CACP activities. Commit to dissemination of new research and products within 6 months of completion. This includes traditional academic research outlets, social media platforms, and more general industry and business outreach efforts.
- 4) Extend the range of CACP thought leadership. This includes broader applications of emergency communications, and alerting, building support for addressing the needs of FirstNet first responder technological solutions, innovative application of technologies to enhance usability and accessibility; policy approaches to increase social engagement and participation, and exploration of the role of technology in supporting inclusive workforce development and the future of work.

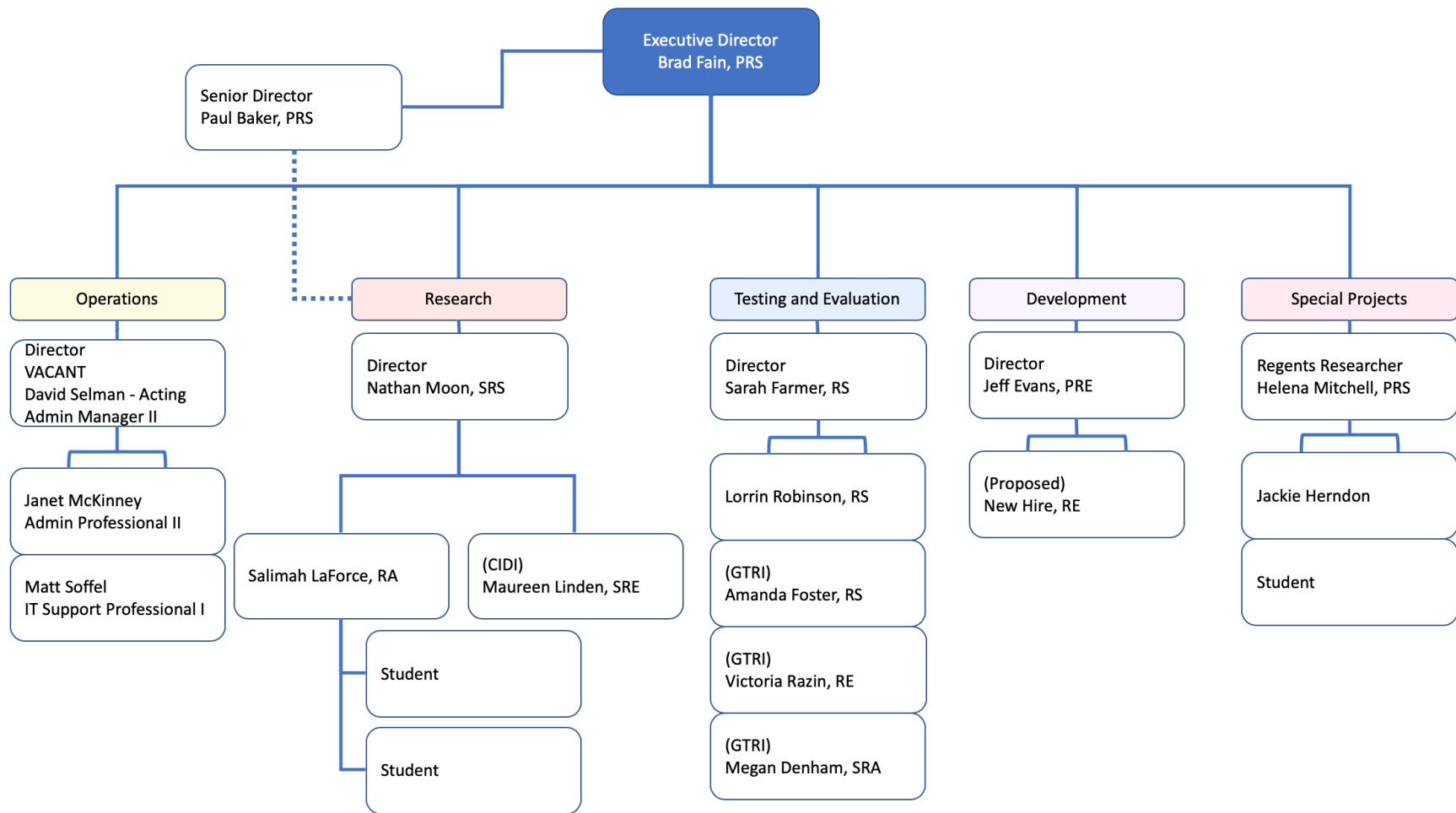
\* \* \*

CACP aims to continue hiring more graduate and undergrad research assistants, as well as faculty researchers and engineers. CACP will also expand by encouraging joint appointments with research faculty at GTRI interested in contributing to social impact research. In addition, CACP has become more aggressive in its expansion of sponsored and industry research into themes that leverage innovation; advanced R&D within the ICT and IoT arenas; educational innovative collaborations including STEM; developing of cutting edge Next-Generation technology; external partnerships with industry; and collaborations with companies creating new tools that focus on service to vulnerable populations.


### **CACP Organizational Chart 2020-2021**

CACP is organized around five functional departments: Operations, Research, Training and Evaluation, Development, and Special Projects. Operations includes all financial and administrative activities associated with the execution of CACP business activities. Research, Testing and Evaluation, and Development departments focus on the development and management of research portfolios in their respective areas. Special Projects includes the management of the Wireless RERC and the development of large, cross-disciplinary research programs. The organizational chart does not imply a hierarchical performance review structure. Performance reviews will be the responsibility of the executive director with the possible exception of the delegation of performance reviews in the Operations department. Paul Baker will serve as the alternative CACP representative to campus and the delegate approver for the research department when the executive director is unavailable.



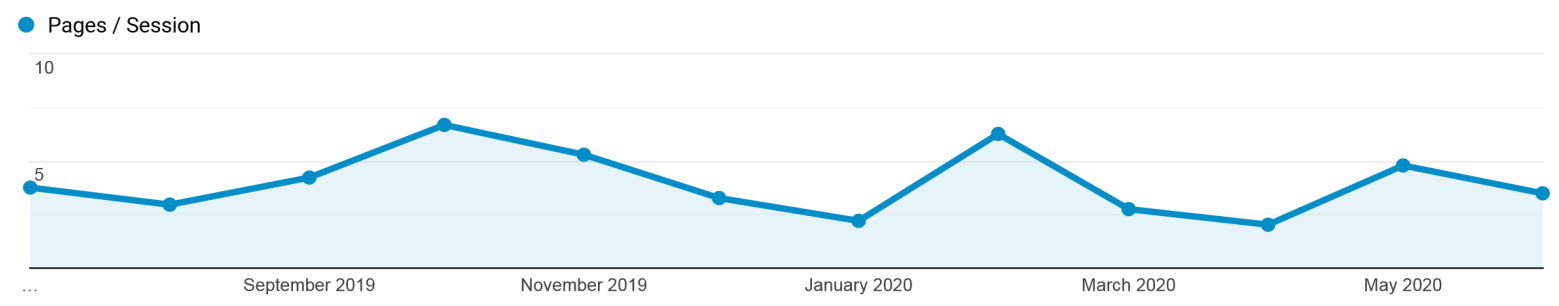


## Audience Overview

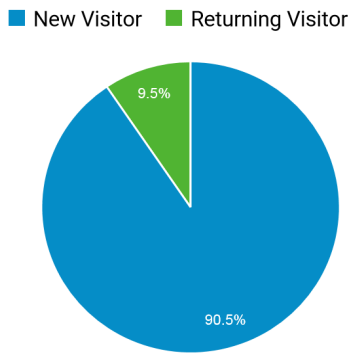
 All Users  
100.00% Users

Jul 1, 2019 - Jun 30, 2020

Overview



<p>Users</p> <p><b>2,475</b></p>	<p>New Users</p> <p><b>2,440</b></p>	<p>Sessions</p> <p><b>3,407</b></p>
<p>Number of Sessions per User</p> <p><b>1.38</b></p>	<p>Pageviews</p> <p><b>13,791</b></p>	<p>Pages / Session</p> <p><b>4.05</b></p>
<p>Avg. Session Duration</p> <p><b>00:02:58</b></p>	<p>Bounce Rate</p> <p><b>60.73%</b></p>	



Language	Users	% Users
1. en-us	2,287	92.40%
2. en-gb	44	1.78%
3. zh-cn	25	1.01%
4. c	21	0.85%
5. pt-br	10	0.40%
6. en	9	0.36%
7. zh-tw	9	0.36%
8. es-es	8	0.32%
9. ko-kr	8	0.32%
10. de-de	7	0.28%