



Georgia Tech

# Center for Advanced Communications Policy

## Annual Report

July 1, 2021 – June 30, 2022

Submitted by

Walter Bradley Fain, Ph.D.

### INTRODUCTION

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.

We expanded our work in usability and accessibility evaluations of point of care diagnostic tests and received numerous accolades for the work led by Sarah Farmer and her team. CACP is now recognized by the NIH and the FDA as representing the “gold standard” for rapid usability testing. Our HomeLab research initiative has been asked to join the ACME POCT core (home of RADx at Georgia Tech) as part of its renewal in recognition of our success in leading the usability and accessibility evaluations of home test kits. We anticipate expansion of this work to include evaluations of test kits for other conditions and diseases such as, Monkey Pox, maternal health conditions, and HIV/AIDS as reliable in-home test kits become available for these market segments.

CACP continues along a trajectory of managed growth adding 4 new research faculty this year in support of our Testing and Evaluation core activities. So far, we have been able to accommodate new researchers in existing office space by taking advantage of growth space acquired in the previous year. However, office space will likely be an issue in 2023 as we continue to grow in support of awarded programs. Janet McKinney successfully planned and prepared CACP for a renewal of our space including new furniture, carpet, and paint to be installed in the Fall of 2022.

Our most critical space need now is lab space in support of funded projects. We look forward to working with IAC and RBI building management to rapidly identify a solution in 2022.

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. 2); Research and Creative Scholarship (pg. 5); Citations (pg. 14) Academic and Service Activities (pg. 15); Dissemination Activities (pg. 17); Summative Collaborations & Meetings (pg. 23); Board Memberships and National Recognition (pg. 31); Sponsored Funding (pg. 33); Collaborative Efforts (pg. 38); CACP Goals for 2023-2028 (pg. 40); CACP Organizational Chart (pg. 48).

This year there were more than 28 publishing activities; 18 major engagements and conferences; active participation on 33 academic and service activities; 3 student assistantships or advisory roles by faculty of CACP; and 33 memberships on boards/committees or national recognition. Sponsored research was funded at **\$13,996,499.00**. CACP staff/faculty participated in more than 1,491 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)

Chief Operating Officer, Center for the Development and Application of Internet of Things Technologies (CDAIT)

Principal Research Scientist, School of Public Policy – Ivan Allen School of Liberal Arts

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-Instructor (with Nathan Moon), "PUBP 8803/4813 Special Topics: Policy Innovation for Inclusive Technologies" Spring 2022

Advising:

Angelina Kim, Public Policy internship with CDAIT, Fall 2021

**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) 2021-2022

**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

Advising:

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

Emily Gleaton, Doctoral Student  
Georgia Institute of Technology,  
School of Psychology, 2021 – present

**Sarah Farmer:**

Research Scientist I, GTRI, Center for Advanced Communications Policy (CACP) 2019 - present

**Amanda Foster:** Research Scientist II, GTRI-ICL, Center for Advanced Communications Policy (CACP)  
November 2021 - Present

**Salimah LaForce:** Research Scientist II/Senior Policy Analyst,  
Center for Advanced Communications Policy,  
Georgia Institute of Technology - 2006 to  
present

**Maureen Linden:** Senior Research Engineer, Center for  
Advanced Communications Policy (CACP)  
September 2017 – Present

Associate Director of Research, Center for  
Inclusive Design and Innovation (CIDI)  
January 2021 – Present

Senior Research Engineer, CIDI  
July 2016 - Present  
Georgia Institute of Technology

Senior Research Engineer, College of  
Engineering and Engineering Technology,  
Kennesaw State University  
December 2020 – Present

**Adina Martinez:** Research Associate II, Center for Advanced  
Communications Policy (CACP)  
October 2021 – Present

Senior Program Analyst, Center for the  
Development and Application of Internet of  
Things Technologies (CDAIT)  
October 2021 - Present

**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

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

Senior Research Scientist, School of Public  
Policy 2017 – Present

Director of Research, Center for Advanced  
Communications Policy (CACP) 2017 – Present

Co-Instructor (with Paul M.A. Baker), "PUBP  
8803/4813 Special Topics: Policy Innovation for  
Inclusive Technologies," Spring 2022

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

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

**Russell D. Mitchell**

Senior Research Engineer, GTRI-ICL, Center for  
Advanced Communications Policy (CACP)  
2020 – Present

**Brenna Phelps**

Research Scientist I, Center for Advanced  
Communications Policy (CACP)  
February 2022 - Present

**Jason Zutty**

Senior Research Engineer, GTRI-Electro-Optical  
Sys Labs, Center for Advanced  
Communications Policy (CACP) 2020 –  
October 2021

## **RESEARCH AND CREATIVE SCHOLARSHIP**

***Books and Books Chapters (2)***

Baker, P.M.A.; Solomon, J., and Martinez, A. (2022). *Context Driven Policy Design: Inclusion and the Internet of Things (IoT)*. Accepted to *Handbook of Internet and Public Policy*, Jeremy Hunsinger (Ed.). Edward Elgar.

Gayle, D. M. B., 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* pp. 286-305. (Rivera, J.D., Ed.), New York: Routledge (2021).

### **Journal Articles, Papers, and Conference Proceedings (refereed) (14)**

Farmer, S., Razin, V., Peagler, A. F., Stickler, S., Fain, W. B., Damhorst, G. L., . . . Lam, W. A. (2022). Don't Forget About Human Factors: Lessons Learned from COVID-19 Point-of-Care Testing. *Cell Reports Methods*. Vol. 2, Issue 5  
<https://doi.org/10.1016/j.crmeth.2022.100222>

Kosoris, N., Liu, B., Fain, B. (2022) "A Framework for XReality Serious Games." SoutheastCon 2022, IEEE, 793-798.  
<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9764129>

Gaspard, H., and Baker, P.M.A. (2022). Innovation and Digital Connectivity: Comparative Policy Approaches for Connecting Rural Communities in the United States and Canada." Accepted to *AAEA Choices* magazine.

Farmer, S., & Bricout, J.C., Baker, P.M.A., & Solomon, J. (2022). Personas, Pandemics, and Inclusive, Synthetic, Smart City Planning. Accepted to *International Journal of E-Planning Research (IJEPR)*.

LaForce, S., & Bright, D. (2022). Evaluating the Impact of WEA 2.0 Regulations on WEA Message Content Accessibility. *Journal of Emergency Management and Disaster Communications*, 1-19.

Dubois, E., Yuan, X., Bennett, D., Khurana, P., Knight, T., LaForce, S., ... & Wild, D. (2022). Socially Vulnerable Populations Adoption of Technology to Address Lifestyle Changes Amid COVID-19 in the US. *Data and Information Management*, 100001.

Mynatt, E.D., Vickers, K., LaForce, S., Farmer, S.K., Johnson, J.M., Doiron, M., Ramesh, A., Fain, W.B., Zubatiy, T., Rodriguez, A.D. Pivoting an MCI Empowerment Program to Online Engagement. *Proc. ACM Human-Computer Interaction*. 6, GROUP, Article 32 (January 2022), 26 pages. <https://doi.org/10.1145/3492851>

Fain, W. B., Nare, M., Doiron, M., Farmer, S., Johnson, J., Laforce, S., ... & Mynatt, E. "Lessons Learned from Developing a MCI Virtual Empowerment Program." 2021

International Symposium on Human Factors and Ergonomics in Health Care (Vol. 10, No. 1, pp. 13-17). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/2327857921101063>

Roback, J. D., Tyburski, E. A., Alter, D., Asakrah, S., Chahroudi, A., Esper, A., . . . Lam, W. A. (2021). The need for new test verification and regulatory support for innovative diagnostics. *Nature Biotechnology*, 39(9), 1060-1062. doi:10.1038/s41587-021-01047-7

Baker, P.M.A., and Solomon, J. (2021). "Platforms, Pandemics and Policy: Technology Innovation and the Internet of Things." Panel Paper for Community and Technologies of Participation–Social Media, Networks of Engagement, and Social Policy. Presented (Virtual) at 26th IPSA World Congress of Political Science, July 2021.

Frediani, J. K., Levy, J. M., Rao, A., Bassit, L., Figueroa, J., Vos, M. B., . . . Lam, W. A. (2021). Multidisciplinary assessment of the Abbott BinaxNOW SARS-CoV-2 point-of-care antigen test in the context of emerging viral variants and self-administration. *Scientific Reports*, 11(1), 14604. doi:10.1038/s41598-021-94055-1

Gaspard, H., and Baker, P.M.A. (2021). "Diversities of Digital Connectivity: Comparing Approaches for Connecting Rural Communities in the United States and Canada." Panel paper for Measuring the Impact of Policy Development on Science and Technological Innovation. Presented (Virtual) at 26th IPSA World Congress of Political Science, July 2021.

Harris, F.H., Linden, M.A., Moon, N.W., Laforce, M.S. "The Role of Assistive and Mainstream Technologies in Contingent Employment." Proceedings of the 42<sup>nd</sup> Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) Conference (Virtual), July 7-9, 2021,  
[https://www.resna.org/sites/default/files/conference/2021/Other/86\\_Harris.html](https://www.resna.org/sites/default/files/conference/2021/Other/86_Harris.html).

### **Publications non-refereed (12)**

Waggoner, J. J., Vos, M. B., Tyburski, E. A., Nguyen, P.-V., Ingersoll, J. M., Miller, C., . . . Lam, W. A. (2022). Adequacy of Nasal Self-Swabbing for SARS-CoV-2 Testing in Children. medRxiv, 2022.2003.2007.22270699. doi:10.1101/2022.03.07.22270699

LaForce, S., Gilliland, S., & Evans, J. (2022) Bridges of the BeltLine [Final Technical Report]. Available at [Microsoft Word - Bridges of the Beltline - Final Report - April 2022.docx \(gatech.edu\)](#)

Bright, D. & LaForce S. (2022) State of Public Opinion on the Federal Communication Commission's Request for Comments on the Broadband Transparency Inquiry [Policy

Brief]. <https://cacp.gatech.edu/sites/default/files/2022/05/Broadband%20Transparency%20PolicyBrief.v2.pdf>

LaForce, S., & Bright, D. (2022). Evaluating the Impact of WEA 2.0 Regulations on WEA Message Content Accessibility [Research Brief].

[https://wirelessrerc.gatech.edu/sites/default/files/publications/research\\_brief\\_-\\_evaluating\\_the\\_impact\\_of\\_wea\\_2.0\\_regulations\\_final.pdf](https://wirelessrerc.gatech.edu/sites/default/files/publications/research_brief_-_evaluating_the_impact_of_wea_2.0_regulations_final.pdf)

Baker, P.M.A., and Fain, B. (2021). *Considerations for Ensuring Accessibility of Consumer Cybersecurity Labeling for IoT Devices*. Prepared for NIST Cybersecurity Labeling for Consumers: Internet of Things (IoT) Devices and Software.

[https://www.nist.gov/system/files/documents/2021/09/03/GeorgiaInstitute\\_CDAITCo nsiderations\\_Accessibility\\_Labeling\\_IoT%20Devices.pdf](https://www.nist.gov/system/files/documents/2021/09/03/GeorgiaInstitute_CDAITCo nsiderations_Accessibility_Labeling_IoT%20Devices.pdf)

Baker, P.M.A. (2021) *Innovation Networks, Inclusion, and Workforce Development Policy in Disrupted Times*. GT Short paper.

Farmer, S. & Peagler, A., Martinez, A., Sheiner, R., (2021-2022). *Usability & Accessibility Reports* (total 29 technical reports produced for the RADx program). Reports documented usability & accessibility evaluations of various COVID-19 diagnostic tests conducted by HomeLab. (Farmer-29, Peagler-12, Martinez & Sheiner-14).

Farmer, S., Deaton, E. & Peagler, A. (2021). *Design Support and Evaluation of the Therapy Smart System*. Usability and accessibility evaluation of the Therapy Smart System (THESS) and supporting software.

Mitchell, H., & LaForce, S., (Eds) (2021). *Wireless RERC 202one State of Technology Forum Proceedings*. Available at

[https://wirelessrerc.gatech.edu/sites/default/files/proceedings\\_of\\_the\\_2021\\_wireless\\_rerc\\_state\\_of\\_technology\\_forum.pdf](https://wirelessrerc.gatech.edu/sites/default/files/proceedings_of_the_2021_wireless_rerc_state_of_technology_forum.pdf)

LaForce, S., Bright, D., Mitchell, H. (2021). *Wireless RERC Retrospective: Policy Initiatives to Accelerate Development and Adoption of Accessible Wireless Technologies*. In *Proceedings of the Wireless RERC 202one State of Technology Forum*. Available at

[https://wirelessrerc.gatech.edu/sites/default/files/proceedings\\_of\\_the\\_2021\\_wireless\\_rerc\\_state\\_of\\_technology\\_forum.pdf](https://wirelessrerc.gatech.edu/sites/default/files/proceedings_of_the_2021_wireless_rerc_state_of_technology_forum.pdf)

LaForce, S., Bright, D., Mitchell, H. (2021). *Stakeholder Outreach and Engagement Initiatives*. In *Proceedings of the Wireless RERC 202one State of Technology Forum*. Available at

[https://wirelessrerc.gatech.edu/sites/default/files/proceedings\\_of\\_the\\_2021\\_wireless\\_rerc\\_state\\_of\\_technology\\_forum.pdf](https://wirelessrerc.gatech.edu/sites/default/files/proceedings_of_the_2021_wireless_rerc_state_of_technology_forum.pdf)



Moon, N.W., Griffiths, P. C., LaForce, S., & Baker, P. M. A. (2021). "Next Generation Wireless Device Adoption and Use among Individuals with Disabilities: Findings from a National Survey of User Needs, 2019-2020." In *Proceedings of the Wireless RERC 2021 State of Technology Forum*. Rehabilitation Engineering Research Center on Wireless Inclusive Technologies (Wireless RERC) State of the Technology Conference Proceedings. Available at [https://wirelessrerc.gatech.edu/sites/default/files/proceedings\\_of\\_the\\_2021\\_wireless\\_rerc\\_state\\_of\\_technology\\_forum.pdf](https://wirelessrerc.gatech.edu/sites/default/files/proceedings_of_the_2021_wireless_rerc_state_of_technology_forum.pdf)

## **Filings on Rulemakings to the Federal Communications Commission, Washington, D.C., and other federal agencies (5)**

### **CACP on the Record: Calls for Greater Uniformity of Accessibility features Across Providers**

LaForce, S. & Bright, D. (2022, April 4). Comments filed in Response to Public Notice *Consumer and Governmental Affairs Bureau Seeks Comment on The Accessibility of Communications Technologies* [CG Docket No. 10-213]. Federal Communications Commission, Washington, D.C.

04-04-2022 - Georgia Tech's Center for Advanced Communications Policy (CACP) filed comments in response to the Federal Communications Commission Consumer and Governmental Affairs Bureau's request for comments on the accessibility of advanced communications technologies. The Bureau sought to obtain updated information on providers' usability and accessibility of information and customer care services. They also sought to understand whether there has been progress in the accessibility of mobile products. CACP offers the latest preliminary findings from their 2022 Mobile Accessibility Review (Review) to address these inquiries. In the comments, CACP indicated low transparency about the presence of inclusive features on mobile devices. The comments highlight that it is challenging for the everyday consumer to find accessibility information in the consumer guides or the device manuals. To accurately glean the presence of accessible features in mobile phones requires using multiple consumer-facing sources. However, we argue that this process causes an undue burden on consumers with disabilities. We further assert that this limited transparency is a missed opportunity, as clarity on whether a device has the accessibility features consumers seek, could improve consumer satisfaction, and potentially reduce call center complaints concerning access issues.

The comments also highlight the accessibility of mobile phones in Lifeline providers and major wireless carriers. The Review found room for growth in all categories for both provider types. Greater uniformity of accessibility features across provider types would better ensure the accessibility of affordable phones. For example, increasing real-time-text (RTT) and two-way video capabilities in Lifeline-provided phones would increase the likelihood of consumers with hearing disabilities identifying and purchasing a phone that has the suite of accessibility features needed for effective communications with both people who are Deaf (e.g., two-way video) and those who are hearing (e.g., RTT). The comments also suggested that increasing the presence of features that enable

alternative input, ease of navigation, and connectivity to external assistive technology devices would improve mobile phone access and equity for persons with mobility disabilities. Comments also covered access for persons with cognitive disabilities and vision disabilities.

### **CACP on the Record: Equitable Media Access for People with Hearing Disabilities**

Bright, D. & LaForce, S. (2022, March 4). Reply Comments Submitted in Response to the Public Notice *Media Bureau Seeks to Refresh the Record on Accessibility Rules for Closed Captioning Display Settings Under The Television Decoder Circuitry Act* [MB Docket No. 12-108]. Federal Communications Commission: Washington, D.C.

03-04-2022 - CACP submitted reply comments to the FCC in response to the *Public Notice Media Bureau Seeks to Refresh the Record on Accessibility Rules for Closed Captioning Display Settings Under the Television Decoder Circuitry Act* [MB Docket No. 12-108]. In this request for comments, the FCC sought stakeholder input regarding the usability of captioning and whether they had the legal authority to require manufacturers to include physical captioning buttons on the digital apparatus that they produce. People who are deaf and hard of hearing have reported a diminished quality of experience when consuming broadcast and digital media because they cannot readily configure captions settings. In accordance with ADA protections, action should be taken to remedy the differential quality of experience based on disability status. As such, CACP supported the Accessibility Advocacy and Research Organizations comments that argued that the Commission has the authority under law to require captioning features. We extended this argument and suggested that closed captioning activation and customization be accessed via a dedicated button on the device.

Inaccessible media concerns have persisted despite technical developments in the provision of closed captioning controls. Perhaps the tenacity of the issue is related to the lack of ubiquity across programming providers, or there might not be a critical mass of customers with hearing disabilities that subscribe to the television services exemplified in NCTA-The Internet & Television Association's comments, or perhaps it is a lack of outreach explaining the availability of these services. In all likelihood, it is some combination of all three, speaking to the limited *usability* of the available closed captioning controls in that product information may not be reaching the intended audience. Thus, we asserted the importance of ensuring information transparency for people with disabilities who seek to better understand and utilize device accessibility features.

### **CACP on the Record: Resilient Networks**

Bright, D. & LaForce, S. (2022, January 13). Reply Comments Submitted in Response to the Notice of Proposed Rulemaking in the Matter of Resilient Networks [PS Docket No. 21-346]; Amendments to Part 4 of the Commission's Rules Concerning Disruptions to Communications [PS Docket No. 15-80]; and New Part 4 of the Commission's Rules Concerning

Disruptions to Communications [ET Docket No. 04-35]. Federal Communications Commission: Washington, D.C.

01-13-2022 - CACP prepared and submitted reply comments to the FCC's Notice of Proposed Rulemaking, *In the Matter of Resilient Networks [21-346]' Amendments to Part 4 of the Commission's Rules Concerning Disruptions to Communications [15-80]; and New Part 4 of the Commission's Rules Concerning Disruptions to Communications [04-35]*. In the initial request for comments, the Consumer Groups suggested that the FCC ensure emergency alerts are disseminated to all phones regardless of if the phone plan is active. We offered additional support for this recommendation as mobile devices are a critical method by which people with disabilities receive emergency notifications. Furthermore, we concurred that the Commission should expand the mechanisms by which they disseminate emergency alerts. Presently, FM radio via mobile phone is underutilized and could be more thoroughly employed. We also assert that the Consumer Readiness Checklist should be accessible and inclusive to all. Our comments offer data to support the Consumer Groups recommendation that captions are necessary for all video messages, including broadcast, social media, and websites. The sobering reality is that people with disabilities experience a higher chance of mortality during emergencies. Thus, it is critical to appropriately prepare communities and educate them on being well-informed of emergency information – starting with accessibility.

### **CACP on the Record: Accessibility of Inmate Calling Services**

Bright, D., & LaForce, S. (2021, October 27). Reply Comments Submitted in Response to the Fifth Further Notice of Proposed Rulemaking in the Matter of Rates for Interstate Inmate Calling Services [WC Docket No. 12-375]. Federal Communications Commission: Washington, D.C.

10-27-2021 - CACP offered reply comments to the FCC's *Fifth Notice of Proposed Rulemaking in the Matter of Rates for Interstate Inmate Calling Services (ICS)* [WC Docket No. 12-375]. In this request for reply comments, the FCC sought whether they held the statutory authority to mandate inmate calling service providers offer access to Telecommunications Relay Service (TRS) and the benefits and costs of doing so. CACP supported comments made by HEARD that the FCC has ancillary authority to ensure that providers of TRS provide accessible services and equipment for inmates with disabilities, as indicated in Section 716. This authority is further imbued by federal legislation requiring TRS service providers to offer functionally equivalent telephone services for people with disabilities.

As it pertains to benefits, CACP reasserted and provided support to comments made by HEARD. Research indicates that there is a positive relationship between inmate communication access on family health. Family contact during incarceration reduces recidivism.<sup>[1]</sup> Research also shows that strong familial support networks strengthened through visitations and regular communication during the incarceration period reduce the likelihood of reoffending<sup>[2]</sup> and offer messages of reform to the children and families of incarcerated persons that discourage them from going down the same path that led to imprisonment.<sup>[3]</sup> We further asserted that one of the benefits of offering advanced communications, such as VRS, is more cost-effective than text-based TRS because of

conversation flow. We conclude by echoing the Joint Advocates' comments that "access to communications is a basic human and civil right of incarcerated people with disabilities that is critical to their ability to navigate and survive the carceral system."

### **Wireless RERC on the Record: Ensuring Equitable Processes in Survey Distribution**

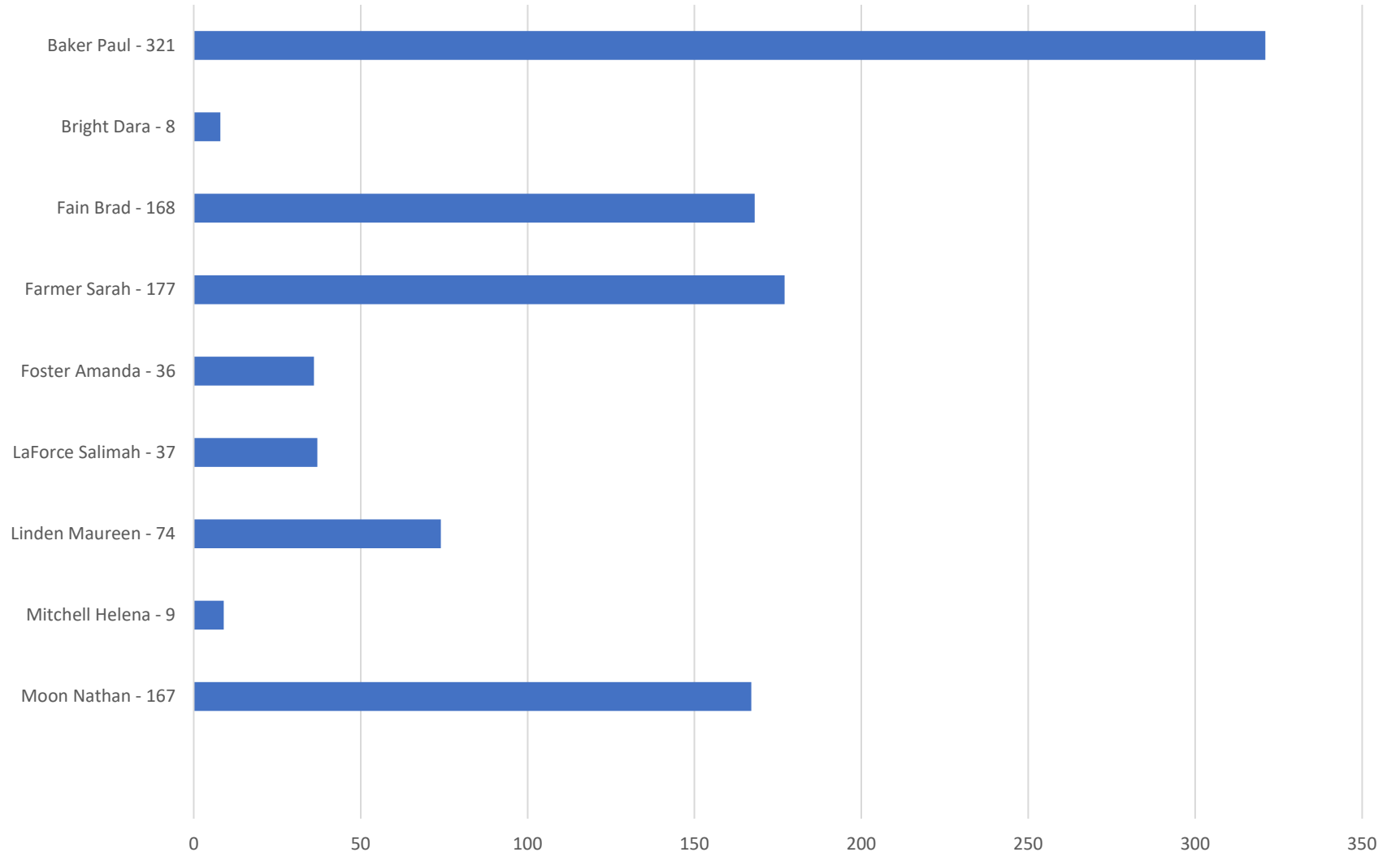
LaForce, S., Bright, D., Moon, N., and Baker, P.M.A. (2021, July 26). Comments filed in response to National Telecommunications and Information Administration (NTIA) *Notice, request for public comments. Internet Use Survey Questionnaire Development [OMB Control Number 0660-0021]*. Washington D.C: NTIA.

07-26-2021 – CACP researchers submitted comments on behalf of the Wireless RERC to the National Telecommunications and Information Administration (NTIA) regarding their request for input on the draft Internet Use Survey, a 67-question survey that they anticipate adding to the November 2021 edition of the U.S. Census Bureau's Current Population Survey (CPS). A focus of our comments was ensuring that interviewers conducting personal visits are properly equipped to communicate with people who have disabilities. Suggesting that the interviewers be prepared to offer accommodations. As it pertains to the accuracy of the NTIA's estimated time, cost burden, and methodology for disseminating the survey, comments indicated some concerns related to the distribution methodology. Specifically, we asserted that NTIA and the Census Bureau provide an online option to complete the survey designed to work with screen reader technology for respondents who are blind or have low vision. As a counter to extensive in-person interviewing teams, we proposed a "mail-in" and online option so that people with and without disabilities can engage with this survey without unnecessary exposure to others.

Regarding the quality and quantity of survey questions, we shared that the survey tool should be designed to facilitate nuanced analyses along sociodemographic dimensions that include disability. To that end, we also recommended that NTIA add questions that would facilitate increased understanding of the various types of technology people with disabilities use to access the Internet and its content—asserting that the resultant data could facilitate the development of broadband affordability and utilization strategies. The comments urged NTIA to ensure that survey questions be clear, concise, and provided in accessible formats and with appropriate disability access accommodations (e.g., ASL, captions). The comments concluded by noting how the suggested revisions will advance the quality of the survey questions and aid researchers in producing improved filing recommendations. We underscored the importance of considering the accessibility and usability of internet services and the consequential inclusion of people with disabilities in the broader design of data collection that informs public policy. We contend that any national survey tool designed to gather data on the state of technology use in the USA should include questions regarding disability and accessibility. Gathering such data will allow for identifying barriers to internet use and technology adoption by people with disabilities,

assisting organizations, manufacturers, developers, and policymakers in devising the appropriate strategies to create a more accessible and usable broadband environment.

## CITATIONS



## ACADEMIC AND SERVICE ACTIVITIES

### ACADEMIC ACTIVITIES (17)

#### Paul Baker (6)

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

Member, IAC Research Faculty Promotions Committee Georgia Institute of  
Technology, 2021-2022.

Member, Research Faculty Promotion Review Task Force Updates 2020-2021.

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

Produced the 2nd annual Student IoT Innovation Capacity Building Challenge  
2022 [https://cdait.gatech.edu/projects/Student\\_IoT\\_Innovation\\_Challenge\\_2022](https://cdait.gatech.edu/projects/Student_IoT_Innovation_Challenge_2022)

Editor, Wireless RERC State of Technology Special Issue of *Assistive Technology  
Journal* (2021).

#### Brad Fain (5)

Reviewer, *Assistive Technology*, 2021 – 2022.

Member, IAC Leadership Council, 2021 – 2022.

Member, Emory CEP DEI Champions, 2021 – 2022.

Member, SPP Chair Search Committee, 2020 – 2021.

Member, STSD Strategic Planning Committee, 2020 – 2021.

#### Salimah LaForce (2)

Reviewer, “Wireless Emergency Alerts: Public Understanding, Trust, and  
Preferences Following the 2021 U.S. Nationwide Test” for *Journal of Contingencies  
and Crisis Management*, June 2022.

Reviewer, NIDILRR, Field Initiated Projects (Research & Development) Grant  
Competition, May 2022.

**Helena Mitchell (2)**

Coordinated visits of three graduate students and four undergraduate students interested in attending Ivan Allen College, including School of Public Policy, Pre-Law, and Literature, Media, and Communication.

Prepared more than a dozen letters of support for Georgia Tech graduates applying for advanced degree programs, doctorates at other universities, or external job positions.

**Nathan Moon (2)**

Member, IAC Diversity, Equity, and Inclusion (DEI) Council, 2021-present

Member, SPP Honors and Awards Committee, 2021- present

**SERVICE ACTIVITIES (16)**

**Paul Baker (3)**

Member, School of Public Policy Faculty Executive Committee, 2021-2022  
Judge, InVenture Price Preliminary Round, 2022.

Letter of Support for Professor Shiri Breznitz, Munk School of Global Affairs & Public Policy, University of Toronto.

Letter of Evaluation, UCSD, Emilia Farcas, Ph.D.

**Brad Fain (3)**

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

HFES National Office Task Force on Product Evaluations, Member, 2019 – 2021.

Member, Human Engineering Working Group for F-16 Block 30 Fighter Aircraft, Participated in quarterly meetings at Hill AFB, Utah, 2018 – 2021.



### **Sarah Farmer (2)**

Reviewer – HFES 66<sup>TH</sup> International Annual Meeting – Healthcare track - April 2022

Reviewer – Atlanta Center for Micro Engineered Point-of-Care Technologies (ACME POCT) Year 5 – Application of Interest – April 2022

### **Maureen Linden (3)**

Board of Directors, Douglas County Animal Services Advisory Board, June 2015 – May 2023

President, Rehabilitation and Assistive Technology Society of North America (RESNA) Executive Committee, Board of Directors, August 2020 – July 2022

Member, RESNA Finance Committee, August 2016 – July 2024

### **Helena Mitchell (3)**

Advisory Board, Georgia Digital Summit, 2012 – Present.

Regional Council Member, Syracuse University (SU) 2019 – Present.

Advisory Committee member, COVID-19 Rapid Response grant, Salimah LaForce, PI.

### **Nathan Moon (2)**

Associate Editor and Reviewer, *Assistive Technology*, 2019-Present

Member (former Chair), RESNA Government Affairs Committee (GAC), 2012-Present

## **DISSEMINATION ACTIVITIES**

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

### **MAJOR PUBLIC AND INDUSTRY ENGAGEMENT (18)**

#### **HCI International**

Sarah Farmer attended the HCI International 2022 annual conference held June 26 – July 1, 2022, in a virtual format due to concerns about COVID-19. The conference objective is to provide an international forum for the dissemination and exchange of

up-to-date scientific information on theoretical, generic, and applied areas of human-computer interaction and related fields.

### **PSCR Public Safety Broadband Stakeholders Meeting – June 7-9, 2022**

The National Institute of Standards and Technology (NIST) Public Safety Communications Research (PSCR) Division hosted the Public Safety Broadband Stakeholder Meeting on June 7-9, 2022, in San Diego, California. Executive Director, Brad Fain and Research Scientist, Sarah Farmer attended the event that brings together representatives from public safety, federal agencies, industry, and academia. This year, participants heard from engineers, researchers, first responders, and innovators about testing updates, upcoming R&D efforts, potential partnerships, and opportunities to get involved.

### **2022 USG STEM Summit**

Nathan W. Moon was an organizer for the 2022 University System of Georgia (USG) STEM Summit, held on May 23-24, 2022. He also provided an update on the progress of the USG STEM IV Initiative as it begins its planned final year.

### **#WhyNotMeSTEM Conference**

Nathan W. Moon was invited as a “key stakeholder” for a National Science Foundation (NSF)-sponsored workshop on broadening participation and increasing diversity, equity, and inclusion in STEM education. The #WhyNotMeSTEM Conference was hosted by Texas Tech University in Lubbock, Texas, on May 22-25, 2022. It featured a series of keynote presentations, followed by active discussion sessions to generate new ideas for addressing inclusion by students from underrepresented groups. Moon also gave a “TED-style lightning talk” on accessibility and inclusion of students with disabilities in STEM education.

### **International Institute of Communications Canada 2022 Conference**

The IIC conference held May 16-17, 2022, in Ottawa, Ontario, Canada has participants drawn from across the Canadian communications community and includes policymakers, academics, industry representatives and regulatory affairs agencies. This conference supports directly on work that Dr. Paul Baker is involved with on enhancing broadband connectivity, and innovation networks with a colleague at the University of Ottawa, Dr. Helaina Gaspard, including a paper developed for the APLU. At the conference he generated several additional contacts which will possibly support new research activities.

### **ACM CHI Conference on Human Factors in Computing Systems**

The ACM CHI Conference on Human Factors in Computing Systems held in New Orleans, Louisiana April 30 – May 5, 2022, is the premier international conference of Human-Computer Interaction (HCI). Salimah LaForce, Research Scientist II, and Senior Policy Analyst attended this in person event. CHI – pronounced 'kai' – annually brings together researchers and practitioners from all over the world and from diverse cultures, backgrounds, and positionalities, who have as an overarching goal to make the world a better place with interactive digital technologies. The plenary session SIGCHI at 40 was the most impressive panel. The panelists were asked to state “provocations” for the direction they think that CHI community should be heading, and the panel discussed each one. Some of the provocations were:

- Can we avoid negative unintended consequences of our work?
- Ethics, design, speculative design should be integrated into computing education, not an elective.
- Think about the theoretical approaches that undergird our work—build theory, social theory.
- Engage more without humanness, deepen somatic awareness, empathy, bodily freedom rather than limitation.
- There is bias in computing. How can SIGCHI continue to evolve and explore bold out-facing roles?
- Black women’s ways of knowing – Embracing different perspectives should be treated as essential, not otherness
- Knock down the siloes between academy and industry
- How do we impact policy and governance? We are a community producing things, and so hyper focused on the pixels, we need to go “from the pixel to policy.”

### **Future of Work in Home Healthcare Robotics State of Technology Workshop - (Virtual)**

Paul Baker as co-organizer of the workshop, held March 16, 2022, in a virtual platform; was funded by Georgia Tech to start cataloging efforts across Georgia Tech in work, home healthcare, robotics and adjacent fields. The event was sponsored by an IPaT / IRIM seed grant focused on bringing together teams to pursue transdisciplinary research and funding. This workshop is the start of a process to foster interdisciplinary collaboration in the area of Future of Work and a way for the Georgia Tech community to work together to secure funding and support ongoing work and larger proposals.

### **NARRTC (National Association of Rehabilitation Research and Training Centers)**

Nathan W. Moon attended the annual meeting of NARRTC (formerly known as the National Association of Rehabilitation Research and Training Centers) in Arlington, VA, on April 27-28. The theme of the 2022 NARRTC Conference was “Resourcefulness, Resilience and Responsiveness: Disability and Rehabilitation Research following the Covid-19 Pandemic.” It featured presentations by grantees from the National Institute of Disability, Independent Living, and Rehabilitation Research (NIDILRR), with topics

ranging from employment policy to independent living outcomes. Additionally, NIDILRR program officers gave presentations and updates, including a final session with NIDILRR director Dr. Anjali Forber-Pratt. Moon also attended the pre-conference workshops on engaging policymakers and communicating science to the public.

### **Southern Gerontological Society 2022 Conference**

Representing CACP and HomeLab, Brad Fain and Sarah Farmer attended the conference held in person in Panama City, Florida on April 5-9, 2022. This conference brings together researchers, students, older adults, and practitioners for sharing ideas to improve the quality of life for older adults through education, research, and practice.

### **CSUN Assistive Technology Conference**

An inclusive setting for researchers, practitioners, exhibitors, end users, speakers, and other participants to share knowledge and best practices in the field of assistive technology. Helena Mitchell, Regents' Research, Emerita attended the post-pandemic, in-person conference held March 14-18, 2022, in Anaheim, California.

### **International Positive Psychology Association Idea Starter Symposium**

A new conference program from the International Positive Psychology Association. The conference held virtually October 29-30, 2021, was a platform for researchers, scientists, and practitioners in the field of positive psychology for sharing of new ideas and conversations. Executive Director of CACP, Brad Fain attended.

### **2021 Online KT Conference: Research Results for Policy Outcomes**

Salimah LaForce attended this virtual conference held on October 25, 2021. Presenters addressed key questions applicable to researchers and product developers interested in making a policy impact with their work. These included

- Why is it important to engage policy-oriented stakeholders early and what are good ways to do that?
- What are the best ways to share information with policymakers?
- What are examples of research-informed policy?

A key takeaway was the use of social media to crowdsource research questions to ground them in the lived experiences of people impacted by the policy under inquiry. The speaker referred to this as method to recognize/reveal the researcher's blind spots. The policy engagement presentations were familiar subjects related to Ms. LaForce's expertise.

### **The Future of Care Work: Towards a Radical Politics of Care in CSCW Research and Practice Workshop**

Paul Baker attended the one-day virtual workshop on October 23, 2021, speaking on technology and aging; bringing together researchers from academia and industry to

reflect on key questions to extend conversations on the future of technology for care work in CSCW and HCI. Critical questions of care work explored included: What counts as care work and why? How is care work variously (de)valued, (un)supported, or coerced and to what end? What narratives are pushing the drive for technology in care work and who does it benefit? How can care be a form of resistance against oppressive systems? And how can we advocate for and with care and caregivers through our research and practice? Underlying workshop proposal <https://drive.google.com/file/d/1r-s4H560swqRyeq3XPcdaG918ADV07cQ/view>

### **BRAIN TALK LIVE**

Brad Fain was the featured speaker for the September 2021 gathering of Brain Talk Live. Dr. Fain described research conducted in the home to empower and measure behavior of people living with dementia.

### **Workshop on Cybersecurity Labeling Programs for Consumers: Internet of Things (IoT) Devices and Software**

Paul Baker and Brad Fain prepared a paper for the workshop “Considerations for Ensuring Accessibility of Consumer Cybersecurity Labeling for IoT Devices”, which had nearly 550 participants at the September 14-15, 2021, virtual event. The agenda for the workshop included facilitated panel discussions and presentations based on the consumer software labeling position papers submitted to NIST and on draft baseline security criteria for consumer IoT devices building on NIST's current guidance on Cybersecurity for IoT. <https://www.nist.gov/news-events/events/2021/09/workshop-cybersecurity-labeling-programs-consumers-internet-things-iot>

### **International Positive Psychology Association 7th IPPA World Congress**

The theme for this webinar was Well-Being for All. It was held July 15-18, 2021, was held in Vancouver, Canada and Brad Fain attended the event in a virtual format.

### **IPSA 26<sup>th</sup> World Congress of Political Science**

The 2021 IPSA World Congress of Political Science was presented virtually July 10-15, 2021. Originally set to take place in 2020 in Lisbon, Portugal, the COVID-19 pandemic led to the postponement of the event to 2021. The Virtual Congress was attended by 2,760 participants and saw 2,363 papers presented as part of 602 panels.

Paul Baker, as Chair of RC 11 (Science and Politics), organized 7 panels, and chaired and/or moderated 2 panels in addition to presenting or co-presenting two papers: Baker, P.M.A., and Solomon, J. (2021). “Platforms, Pandemics and Policy: Technology Innovation and the Internet of Things,” and Gaspard, H., and Baker, P.M.A. (2021).

“Diversities of Digital Connectivity: Comparing Approaches for Connecting Rural Communities in the United States and Canada.”

### **RESNA 2021 Virtual Conference**

The 41<sup>st</sup> Annual Conference of the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) was held July 7-9, 2021, over a virtual platform. The conference theme, Welcome Home, reflected RESNA's multi-disciplinary nature that allows it to be a professional home for so many individuals. The Annual Conference allowed exchange of ideas about the latest innovations and research that helps people with disabilities lead independent, healthy lives. As President of RESNA, Maureen Linden served as conference chair. Further, Linden and Moon presented scientific content on their research through a scientific platform session consisting of related presentations. Maureen Linden, Nathan Moon, and Brad Fain participated in additional networking events that benefited their research programs.

### **Social Media**

#### **CACP:**

- Accessible Technology Policy Group (ATPG), established in 2009 currently has **1016** members. ATPG is focused on policy development and exchange of information related to e-accessibility and inclusive design.
- The CACP Facebook page has **200** page likes and **215** page-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 **1617** followers. The CACP Twitter feed's purpose is to share CACP news and events, as well as post relevant technology and policy news items.
- The former Wireless RERC Twitter feed (@CACPGT\_wRERC) was renamed to Communications Access, Equity, & Inclusion (@CACPGT\_Access) and has **1279** page-followers. The new Twitter feed shares news about Center research and associated academic, industry, government, and advocacy news concerning technologies and services that advance social inclusion of people with disabilities.
- The Wireless RERC Facebook page has **397** page likes and **444** followers. The page was designed to share Wireless RERC news and events, as well as post relevant inclusive wireless technologies and services news items with a human-interest appeal.
- The Wireless RERC YouTube Channel was transitioned into CACP's @Technology Access Equity and Inclusion channel and has **583** subscribers and 60,600 views this year. The channel shares videos (produced by the Wireless RERC) that provides tutorials on how to enable accessibility features on wireless devices and videos that showcase the research and development work of the Center.
- Salimah LaForce maintains the Facebook page for the Georgia Emergency Preparedness Coalition for People with Disabilities and Older Adults (GEPC). The page has **523** page likes and **563** page-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 (assisted by Matt Soffel, Janet McKinney, and Adina Martinez) designed and set up a new website for Center for the Development and Application of Internet of Things Technologies (CDAIT) <https://cdait.gatech.edu/> to represent CDAIT's move to CACP.
- The CDAIT (@cdaitgt) Twitter feed has **500** followers and posts 3-5 times a day. CDAIT also has a company page on LinkedIn at: <https://www.linkedin.com/company/cdait> with **201** followers.
- CDAIT publishes a biweekly newsletter (edited by Alain Louchez) which is posted to the CDAIT and CACP websites as well as disseminated via Twitter and LinkedIn channels.

### **Individual:**

- Paul M.A. Baker has an IAC website at <http://paulmbaker.gatech.edu>, maintains a LinkedIn profile with **3344** connections, and a Twitter feed (@paulmbaker) with **2330** followers. He helps maintain **6** additional social media accounts for several organizations, including the Emory Alumni Group with nearly **24,515** members.
- Salimah LaForce maintains a LinkedIn profile with **698** connections, **738** followers, and **47** group memberships, including the American Psychological Association, 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, University of Minnesota, George Mason University, University of Toronto, Memorial University of Newfoundland, University of Ottawa, Complutense University of Madrid, National University of Ireland, Galway, Friedrich Schiller University Jena, Geneva Business School, Tsinghua University, Beijing, China, Beijing University, University of Sydney, Auckland University of Technology.

Meetings with **government agencies:** FCC Commissioner Nathan Simington, several members of the Canadian Radio-television and Telecommunications Commission (CRTC), Georgia Department of Public Safety, 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, 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:** Microsoft, GSMA, EGO Products, Canadian Wireless Telecommunications Association (CWTA), McKinsey, Assistive Technology Industry Association, CTA Foundation, Comcast, AIG, AT&T, Friedrich Ebert Stiftung (International Trade Union Policy Foundation), ThyssenKrupp, American Institutes for Research, SmartMatic, Facebook, Cox, LinkedIn, Verizon, T-Mobile, industriAll Europe, International Trade Union House (ITUH) (Brussels), Industriegewerkschaft Bergbau, Chemie, Energie (Germany), Global Federation of Competitiveness Councils, AFL-CIO, GSMA.

**50+** outreach meetings (virtual and in-person), 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); National Institute for Disability Independent Living and Rehabilitation Research (NIDILRR).

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



Collaborations and/or meetings with **industry**: Amazon, Avanti, Blackrock, Delta, Pfizer, Battelle, Cox Communications, LVHS, Ricoh, Microsoft, Strados Labs, Himformatics, Shriners, 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, Harvard University, Kennesaw State University.

Meetings with **government agencies**: National Institute of Standards and Technology (NIST), National Institutes of Health (NIH), U.S. Food and Drug Administration (FDA), Centers for Disease Control and Prevention (CDC), Cobb County Fire Station.

Collaborations and/or meetings with **industry**: Children's Healthcare of Atlanta, Boston Children's Hospital, Marcom Central, Ricoh, Cox Communications, La Valériane, Strados Labs, Honeywell, Sorrento Therapeutics, Aquanta, various COVID-19 diagnostic testing companies through RADx.

**207** outreach meetings, collaborative discussions, and technical assistance sessions.

### **Salimah LaForce**

Collaborations and meetings with **the Academy**: Northeastern University, Emory University, Georgia State University, The State University of New York (SUNY), Indiana University, University of Colorado-Boulder, University of Minnesota, 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), Georgia Tech Research Institute (GTRI), School of Psychology.

Meetings with the **public and government entities:** National Institute for Independent Living, Rehabilitation, Research (NIDILRR), Colorado 911 Task Force, City of Los Angeles, Federal Communications Commission (Office of Disability Rights, Wireless Technology Bureau), FEMA – Integrated Public Alert & Warning System, Georgia Department of Behavioral Health & Developmental Disabilities, Georgia Department of Public Health, Georgia Emergency Management Agency (GEMA), National Emergency Number Association (NENA), North Carolina Department of Health and Human Services, State of Georgia ADA Coordinator's Office.

Collaborations and/or meetings with **disability and non-governmental organizations:** Audio Information Network of Colorado, Georgia Center for the Deaf and Hard of Hearing, Georgia Center for Diabetes Translation Research, Georgia Emergency Interpreting Services Network.

Collaborations and/or meetings with **Industry:** Atlanta BeltLine Inc., General Motors, KORE Wireless, Stantec, KPS Collaborative Solutions, Deaf Link, Inc., Rand Corporation, TracFone, Vital Signs.

~226\* 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.

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\*Includes standing weekly, bi-weekly, and monthly meetings, plus ad hoc meetings.

## **Maureen Linden**

Collaborations and/or meetings with **the Academy:** Colorado University, Emory University, Gallaudet University, University of Georgia, Georgia State University, George Washington University, University of Guam, Kennesaw State University, University of Minnesota, University of Nebraska, State University of New York – Albany, State University of New York, Buffalo, State University of New York – Stony Brook, Oklahoma State University, Ohio State University, University of Texas – Arlington, University of Texas – Austin, and the University of Washington.

Meetings with **public and government agencies:** Alaska Department of Labor, 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 (ACL), 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**: : American Association on Health and Disability (AAHD), Assistive Technology of Alaska (ATLA), Assistive Technology Industry Association (ATIA), Association of Assistive Technology Act Program (ATAP), Association of Programs for Rural Independent Living (APRIL), Association of University Centers on Disabilities, Center for Visually Impaired (CVI), Council for State Administrators of Vocational Rehabilitation (CSAVR), European Federation of Hard of Hearing People (EFHOH), Partnership for Inclusive Disaster Strategies, Assistive Technology Act Technical Assistance and Training Center, Idaho Assistive Technology Act Program (IATP), Georgia Council on Developmental Disabilities, Georgia Radio Reading Service (GaRRS), Global Alliance of Assistive Technology Organization (GAATO), Guam System for Assistive Technology (GSAT), Hearing Loss Association of America (HLAA), Illinois Assistive Technology Program (IATP), EasterSeals CrossRoads – Indiana Assistive Technology Act (INDATA) Project, International Federation of Hard of Hearing People (IFHOH), Assistive Technology for Kansans (ATK), Montana Assistive Technology Program (MontTECH), National Council on Independent Living (NCIL), National Assistive Technology Act Technical Assistance and Training (AT3) Center, National Association of Deafened People (NADP), North Carolina Assistive Technology Program (NCATP), Oklahoma Able Tech, Partnership for Employment and Technology (PEAT), Rehabilitation and Assistive Technology Society of North America (RESNA), Smith-Kettlewell Eye Research Institute, Shepherd Center, RERC on Technology Transfer (T2RERC), RERC on Aging (T2RERC), RERC on Aging (TechSAge), Texas Technology Access Program (ITAP), and Washington Assistive Technology Act Program (WATAP).

Collaborations and/or meetings with **industry**: Amazon, Comcast, Microsoft, News to You (N2Y), Society for Human Resource Management (SHRM); People Power Corporation, SmithBucklin, NoBarriersCommunication (NoBaComm), and Deaf Link, Inc., Professional Resource Group, LLC, KORE.

**54** 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.

### **Adina Martinez**

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

Meetings with **government agencies**: National Institutes of Health (NIH), the U.S. Food and Drug Administration (FDA).

Collaborations and/or meetings with **industry**: Children's Healthcare of Atlanta, Cox Communications, Microsoft, Verizon, Kore Wireless, Intel, AT&T, The Coca-Cola Company, various COVID-19 diagnostic testing companies through RADx.

**169** outreach meetings, collaborative discussions, and technical assistance sessions.

### **Helena Mitchell**

Collaborations and meetings with **the Academy**: Georgia State University, University of Texas at Arlington, Johnson C. Smith University; Kennesaw State University; Carolinas Alliance for Success in Education (coalition of HBCUs & MSIs); Syracuse University, Amity University (London), State University of New York-Albany, American College of Greece, Gallaudet University, Atlanta University Center.

Meetings with **public and government agencies**: U.S. Department of Commerce, National Telecommunications & Information Administration, Office of Minority Broadband Initiatives; 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).

Collaborations and/or meetings with **disability related organizations**: DeafLink; 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.

**23** outreach meetings, collaborative discussions not reported already. Meetings included external and internal discussions on possible collaborations; grant opportunities; and public safety issues for people with disabilities. The SOT was held in 2021, which 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 Minnesota, University of Washington, University of New Hampshire, Gallaudet University, Boston University, Emory University, Smith-Kettlewell Eye Research Institute, University of Maryland, Texas Tech University, University of Stirling (UK)

Meetings with **public and government agencies:** the National Institute for Disability, Independent Living, and Rehabilitation Research (NIDILRR), National Science Foundation (NSF), Federal Emergency Management Agency (FEMA), Federal Communications Commission (FCC) Disability Rights Office (DRO), National Information and Telecommunications Administration (NTIA), 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), Georgia Vocational Rehabilitation Agency (GVRA).

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 Act (AT Act) Programs for the States of: Alaska and Texas, Assistive Technology Industry Association (ATIA), Partnership for Employment and Accessible Technology (PEAT), Center for the Visually Impaired (CVI), Georgia Center for the Deaf and Hard of Hearing (GCHDD), National Association of Deafened People (NADP), International Federation of Hard of Hearing People, European Federation of Hard of Hearing People.

Collaborations and/or meetings with **industry**: Microsoft Accessibility, Blackberry, TracFone, Facebook, Bluetooth Special Interest Group (Bluetooth SIG), KORE, Comcast, CTIA: The Wireless Association, KPS Collaborative Solutions, Deaf Link.

**150** 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.

### **Amanda Peagler**

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

Meetings with **government agencies**: National Institutes of Health (NIH), U.S. Food and Drug Administration (FDA), Division of Family & Children Services (DFCS), Georgia Department of Agriculture, Shepherd Center.

Collaborations and/or meetings with **industry**: Children's Healthcare of Atlanta, Cox Communications, LVHS, Shriner's Hospital.

**176** outreach meetings, collaborative discussions, and technical assistance sessions.

### **Brenna Phelps**

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

Collaborations and/or meetings with **industry**: Harbor Landing Village.

**165** outreach meetings.

### **Rebecca Sheiner**

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

Meetings with **government agencies**:

Collaborations and/or meetings with **industry**: Children's Healthcare of Atlanta, Cox Communications, Thermo-dynamics Heating and Cooling, Oregon Center for Aging & Technology (ORCATECH), People Power Company, various COVID-19 diagnostic testing companies through RADx.

**185** outreach meetings, collaborative discussions, and technical assistance sessions.

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

### **Paul M.A. Baker (12)**

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.

Member, International Political Science Association (IPSA), July 2012 – present.

### **Brad Fain (3)**

Member, Georgia Digital Summit Advisory Board, 2021 – present.

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 (6)**

Member, Rehabilitation Engineering and Assistive Technology Association of North America (RESNA), 2022 – present

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, August 2020 – Present.

**Janet McKinney (1)**

Georgia Tech Event Coordinators Network, 2018-Present.

**Helena Mitchell (4)**



Regional Council Member, Syracuse University, 2018 – Present.

IAC Million Dollar Club, 2015 - 2021.

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 Higher Education and Advancement committees. Lead on Faculty Incentives task force. Virtual meetings in 2020 and 2021. 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, 2019-present.

## **SPONSORED FUNDING For CACP**

\*\*This list combines cumulative active awards and new funding for FY22.

### **Active (28)**

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 10/01/2020 – 09/29/2022. \*\*NCE granted through 9/29/22.

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, 48 months, 9/30/2017 – 9/29/2022. \*\*NCE granted through 9/29/22.

Nathan Moon, Ph.D., PI. Service Level Agreement Between Board of Regents of the University System. 7/1/20 - 6/30/22. \$40,000. A one-year NCE was granted.

Nathan Moon, Ph.D., PI. Service Level Agreement Between Board of Regents of the University System. 6/1/21 - 6/30/22. \$23,000 for 13 months.

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. \$199,145 for FY22. \$399,002 to date. Annual increments.

Nathan Moon, Ph.D., Inclusive Tech Entrepreneurship Program, New Venture Fund. 1/1/21 - 12/31/21. (Ondin – Prime PI). Total award \$89,989. CACP receives \$17,077.80. **Ended 12/31/21.**

Maureen Linden, PI. (Nathan Moon, Ph.D. Co-PI), The Assistivetech Network, A Community of Practice on Assistive Technology., Department of Health and Human Services Administration for Community Living. 9/1/20 – 8/31/23. \$1,499,954 for 36 months. \$499,999 for FY21/22. Total to date \$999,984. Nathan Moon received \$65,770 in FY22 (\$125,529.69 total). Annual increments.

Maureen Linden, Co-PI (Carolyn Phillips PI). Accommodation Expert Support System for Aging Well (Access for Aging Well). Department of Health and Human Services Administration for Community Living. 9/1/20 – 8/31/25. \$2,499,862 for 60 months. \$499,997 for FY22. \$999,959 to date. Nathan Moon received \$33,146.21 in FY22, \$58,277.61 total. Annual increments.

Megan Denham, Senior Research Associate, 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.

Megan Denham, Senior Research Associate, 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 (Megan gets \$5000.) \*\*No additional funds expected.

Megan Denham, Senior Research Associate. Development of a 3D Graphic Representation Scale for Assessing Hip Function, Shriners Hospitals for Children.

3/15/21- 3/15/22. \$49,473. \$44,973 has been funded. **Work stopped in October 2021.**

Megan Denham, Senior Research Associate. Prevent Maternal Mortality Using Mobile Technology (PM3). Morehouse College (Johnson and Johnson) Andrea Parker PI. 2/1/21 – 6/30/22. \$180,386 total. Megan received \$82,364. (Possibly \$6656 additional funds coming in).

Megan Denham, Senior Research Associate. Prevent Maternal Mortality Using Mobile Technology (PM3) Phase 2. Morehouse College (Johnson and Johnson) Andrea Parker PI. 3/1/22 – 4/30/22. \$29,651.20.

Megan Denham, Senior Research Associate. Passport Transfer. Pediatric Research Endowment. 4/1/22 – 6/30/22. \$13,762.

Megan Denham, Senior Research Associate. E-Health Tools for Kidney Disease Management, Emory (NKI). 1/1/22 – 12/31/22. \$38,446.

Salimah LaForce, Research Scientist II, Bridges of the Beltline, EVPR/Provost (GT), 7/1/20 – 6/30/22 for \$74,949. Extension through 6/30/22.

Salimah LaForce, Research Scientist II, WEA Presidential Alert Test, Rand Corporation, 11/1/21 – 10/31/24 for \$109,780.

Brad Fain, Ph.D., VPAT Conversions, Ricoh USA. 10/31/21 – 10/12/22. \$4000.

Brad Fain, Ph.D., Ricoh Accessibility and SWIC 2021 Ricoh USA. 3/17/21 – 3/17/22. \$21,000 for FY 21.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Research Support C7210S 2021, Ricoh USA. 3/17/21 – 3/17/22. \$9,000 for FY 21.

Brad Fain, Ph.D., Usability Testing of MagTrack for Enabling Power Wheelchair Users, Georgia Research Alliance. 8/4/21 – 6/30/22. Omer Inan is PI. Total award is \$23,440. **CACP received \$5,000.**

Brad Fain, Ph.D., Mild Cognitive Impairment Empowerment Program, Emory  
5/1/19 – 9/30/22, **\$483,864 for FY22 – FY24**. CACP has received a total of  
\$856,197.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Support Program – State of MN  
Software, Ricoh USA, 11/1/19 -3/31/22, \$83,760.

Brad Fain, Ph.D., Ricoh Accessibility and Usability Research Support Program,  
RicoH USA, 6/15/10 – 3/31/22, \$1,045,769.87. \$267,445.70 in CACP.

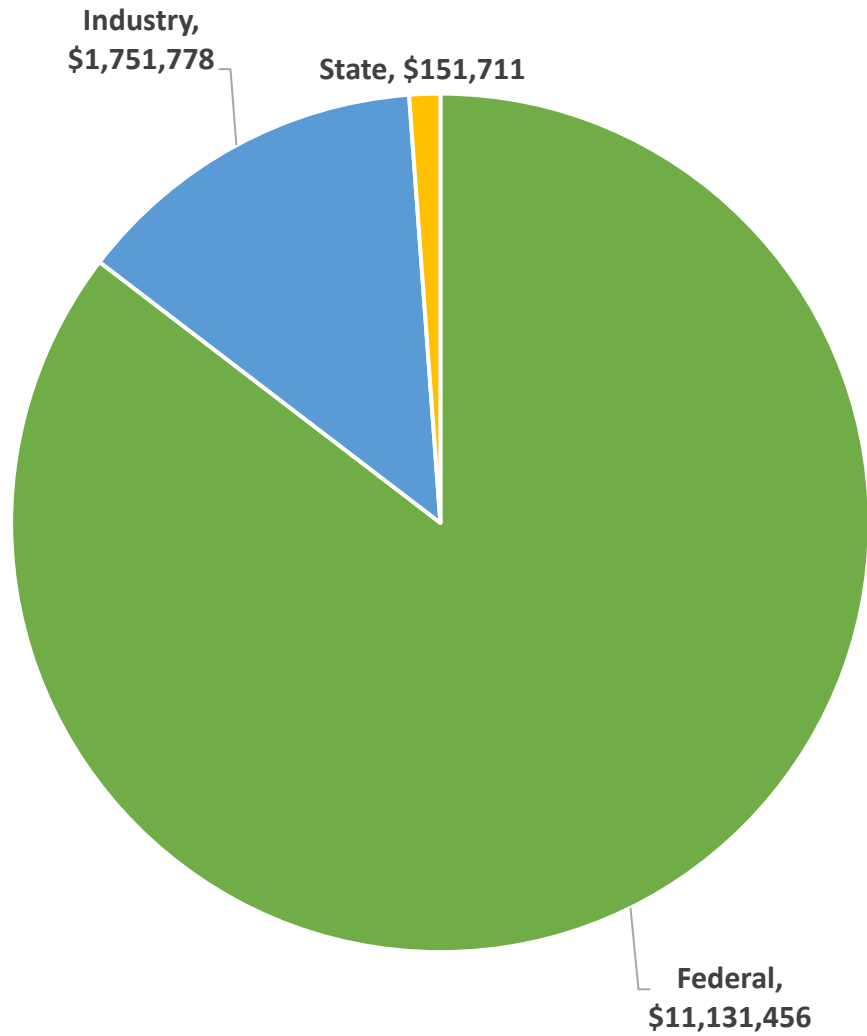
Brad Fain, Ph.D., NIST - PSCR / Department of Commerce – ARTEMIS: FirstNet  
TestBed. CACP is a collaborator and funds will be leveraged for Wireless RERC  
emergency communication projects. \$1,270,000 for 5/31/2018 to 5/30/2022.  
\$64,922 is in CACP. \*\*\*May get an NCE.

Sarah Farmer, Research Scientist I, HOMELAB COX COMMUNICATIONS  
CUSTOMER DISCOVERY, Cox Communications, 10/18/21 – 9/30/22, \$94,763.

Sarah Farmer, Research Scientist I, ACME POCT Rapid Acceleration of  
Diagnostics (RADx), Emory University (NIH), 5/1/20 – 9/29/22 \$1,242,868. NCE  
through 9/29/22. No additional funds.

Paul Baker, Senior Research Scientist, Ph.D. CDAIT Membership. (Multiple  
sponsors) July 1, 2020 – June 30, 2022. \$204,639.27. \*\* This will be extended  
annually, with membership funding throughout the year.

CACP  
FY22 Sponsored Funding  
Total = \$13,034,945



# 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

- Donica Allen, FEMA, Integrated Public Alert Warning Systems Project Management Office
- DeeDee Bennett, State University of New York – Albany
- Shellie Blakeney, T-Mobile
- Richard Catrambone, School of Psychology
- Kay Choido, Deaf Link
- David Dougall, Blackberry Limited
- David J. Dzumba, Microsoft
- Sara Endicott, College of Design (COD)
- Dan Heller, Deaf Link
- Avalyn Jackson, AT&T
- Kevin Jones, Kore Wireless
- Chris Langston, Facebook
- Jessica Pater, Georgia Tech Research Institute (GTRI)
- Joel Odom, GTRI
- Joiava Phillipott, Cox Communications

- Jon Sanford, College of Design (COD)
- Glenn Shell, Deaf Link
- Deborah Simpier, Hawk Networks
- William Simitzes, Kore Wireless
- Karen Peltz Strauss, KPS Collaborative Solutions (Former FCC Deputy Bureau Chief),  
Consumer and Government Affairs Bureau – Ret. 2018)
- Robert Todd, University System of Georgia (USG)
- Will Tucker, Atlanta BeltLine, Inc.
- Elizabeth Vega, Tracfone Wireless

**INSTITUTIONS (on CACP sponsored grants)**

- John Bricout, University of Minnesota-Twin Cities
- John Brabyn, Smith-Kettlewell Eye Research Institute
- Claire Donehower, Georgia State University
- Julienne Greer, University of Texas – Arlington

## GOALS 2023 – 2028

In 2022 CACP continued implementing 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.
- 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 2023 – 2028:

### **CACP 2022-2027 Strategic Plan**

#### 1.0 Framing the Strategic Plan

The Center for Advanced Communications Policy (CACP) at the Georgia Institute of Technology is an applied research center that focuses on informing the design, development, and deployment of innovative technologies, and understanding their social impact by the conduct of objective, evidence-based research, and policy analysis. CACP has a particular emphasis on policy methods and outputs that meet the needs of both public and private sector stakeholders. CACP's mission is to provide research and methodologically driven perspectives on technologies that have impact at the intersection of society, inclusion, and policy. Further, these analytic approaches are the foundation of the assessment and analysis of issues that inform applied aspects of our work: improving the user experience, commenting on federal rulemaking, and input into the policy-making process. An important characteristic of our work is that it is supported by diverse funding by government, industry, and non-profit sources.

Current CACP research themes include:

- Determining barriers to, and developing ways to address, wireless connectivity.
- Informing technological accessibility, usability, and design for all including people with disabilities.
- Inclusive emergency communications, alerting and management.
- Improving the user experience with point of care diagnostic tests including tests designed to detect COVID-19.
- Innovative approaches to enhance higher education and workforce development, and inclusive employment.
- Exploration of the impact of digitally facilitated communications modes such as social media and online participatory platforms, and the cultural impact of technology shifts.
- Internet of Things, 5G communications and network architectures supporting public safety, humanitarian systems, and future digital infrastructures.



- Deployment and adoption of technology to enhance participation and quality of life for the aging, people with disabilities and other underserved populations.
- The role of policy to improve society and create lasting, sustainable change.

Multi-disciplinary research collaborations are a key strategy for expanding CACP's breadth and depth. CACP utilizes a proven human system engineering approach to problem solving and focuses on integrative processes that "fill gaps" by looking at the space between people and technology with a social sciences/humanities-based lens that others may not be able to offer. This integrative perspective is key to how we create value, while still doing primary boundary work to ensure synergetic relationships with potentially competing centers at GT.

CACP's has partnered, internally, with engineers, scientists, and social scientists as part of multi-disciplinary approaches for interdisciplinary problems of technology-mediated connectivity. Externally, CACP works with universities across the U.S. in research and development, and generation of academic, industry, and professional publications. On an international scale, CACP has established productive, collaborative partnerships, globally, with an emphasis in Europe, Japan, Latin America, Mexico, and Canada.

## Strategic Plan 2022 – 2027 Objectives

- 1.1 *Objective – Conduct empirically based research in the domains of communication, connectivity, accessibility/usability, and associated technology policy.*

Current Priorities	Comment/Metrics
<p><b>1. Applied Research Agenda</b></p> <ul style="list-style-type: none"> <li>a. Leverage current CACP research programs to explore new approaches to technologically mediated connectivity of people and ideas.</li> <li>b. Investigate new research areas that could include:               <ul style="list-style-type: none"> <li>- Impact of smart and information-based applications on independent living and quality of life.</li> <li>- Expanded approaches (and policy consequences) of accessibility and usability.</li> <li>- Policy impacting social and civic participation, education and employment, and health and well-being.</li> <li>- Technological innovation policy and design.</li> <li>- Technology, workforces, and education.</li> <li>- Aging in place technologies and technologies that enable the efficient remote deployment of services supporting independent living for older adults.</li> <li>- Health systems design.</li> <li>- Technologies to support first responders based on the FirstNet communications platform.</li> </ul> </li> <li>c. Produce awareness-generating research briefs, social media and other translation products focusing on issues of state, national and global policy significance.</li> </ul>	<p>A key CACP resource - intellectual activity and funded research ideally balances depth/breadth. Efficacy of CACP programs can be measured by 1) the diversity of funding sources, 2) the range of topics, &amp; 3) CACP outputs.</p> <ul style="list-style-type: none"> <li>- Produce 1 or more conference paper, peer reviewed publication or center publication /researcher.</li> </ul>
<p><b>2. Develop/expand research collaborations - GT investigators</b></p> <ul style="list-style-type: none"> <li>a. Identify and engage in collaborative research projects in new/adjacent domains.</li> <li>b. Build awareness of importance of policy and social impact research perspectives.</li> <li>c. Expand peer networks.</li> </ul>	<ul style="list-style-type: none"> <li>- Identify and engage at least 1 new colleague or center per CACP researcher: attend workshops, presentations or joint work on papers or proposals.</li> </ul>
<p><b>3. Expand relationships with other state and national entities focused on wireless connectivity, accessibility, technology policy, health, and disability studies</b></p> <ul style="list-style-type: none"> <li>a. Increase partnership activities promoting similar agendas.</li> </ul>	<ul style="list-style-type: none"> <li>- As part of environmental scanning Identify potential collaborative activity.</li> </ul>

<ul style="list-style-type: none"> <li>b. External funding sources applicable to the accessibility, usability and connectivity of technological developments, and workforce and educational development.</li> <li>c. Use social media and other new platforms as a tool for increasing engagement and participation of the aging, and people, with disabilities.</li> </ul>	
<p><b>4. Disseminate research at state, national and international venues</b></p> <ul style="list-style-type: none"> <li>a. Expand dissemination of current (and past) CACP research beyond journals, to blogs, twitter feeds and other new media platforms.</li> <li>b. Identify opportunities &amp; expand evidence-based policy input (agency regulations, etc.), as well as in cross-disciplinary collaborations.</li> <li>c. Enhance website content amplification/awareness generation.</li> </ul>	<ul style="list-style-type: none"> <li>- Staff generates short summary and activities posted to website within 30 days of receipt of news item.</li> </ul>
<p><b>Future Priorities (5 – 10 years)</b></p>	
<ul style="list-style-type: none"> <li><b>1. Expand recognition in state and national policy arenas</b> <ul style="list-style-type: none"> <li>a. Research staff expand leadership in national programs dealing with information, communication, and technology (ICT) policy development, application, and design.</li> </ul> </li> <li><b>2. Provide leadership in transformative interdisciplinary research and development</b> <ul style="list-style-type: none"> <li>a. Lead center on interdisciplinary research to improve the human condition especially among people with disabilities, aging into disability, and diversity issues. Specifically focused on role of social media, connectivity focused policy, and applications of digital technologies to facilitate these objectives.</li> </ul> </li> <li><b>3. Engagement in international comparative research, education, and policy studies.</b> <ul style="list-style-type: none"> <li>a. In 1) wireless applications, emergency communications and inclusive connectivity, 2) educational development, and workforce inclusivity, 3) general improvement in the human condition and enhanced societal participation especially among people with disabilities, aging into disability, and related diversity issues.</li> </ul> </li> </ul>	

1.2 Objective – Policy, Regulatory and Legislative Analysis

<b>Current Priorities</b>	
<p><b>1. Leverage research activity to enhance reputation as “go to” policy center in inclusive/accessible ICT policy and innovation</b></p> <p>a. Focused in areas such as accessibility/usability, wireless, people with disabilities, accessible emergency communications, social networking, workforce development, STEM education.</p> <p>b. Expand of accessibility and usability expertise to meet industry needs.</p> <p>c. Expand partnerships to generate multi-national regulatory and policy outputs.</p>	<p>- 2-3 funded projects related to ICT policy and innovation per year.</p> <p>- expansion of the HomeLab research initiative to meet demand.</p>
<p><b>2. Policy Expertise and Innovation - dissemination activities to inform national policy</b></p> <p>a. Produce translational research highlights and industry-targeted materials.</p> <p>b. Disseminate findings of CACP research to inform policy process (e.g., FCC, NTIA, FDA, NIST, U.S. Access Board).</p> <p>c. Draw on CACP work to generate regulatory filings.</p> <p>d. Continue to develop novel approaches to apply policy insights for industry and business collaborations.</p> <p>e. Explore new possibilities (e.g., social media, online planforms) to “cross-pollinate” current research and organizational contacts.</p>	<p>- 3-4 regulatory filings, policy products and/or position papers/year.</p> <p>- 1 or more citations of CACP work in regulatory or legislative documents.</p> <p>- Develop 1 or so new industry relationship / year.</p>
<p><b>3. Monitor relevant international technological activities and identify potential collaborative research partners</b></p> <p>a. European Union and other international bodies.</p> <p>b. NTIA Office of International Affairs.</p> <p>c. International foundations and research networks.</p> <p>d. Other entities (e.g., World Economic Forum, International Trade Unions, etc.).</p>	<p>- publish research on international technology related policy and policy impacts.</p> <p>- establish and maintain international relationships.</p>
<b>Future Priorities (5 – 10 years)</b>	
<p><b>1. Develop new research and analytic products allowing CACP to be recognized as socio-technical policy experts</b></p> <p>a. Leadership in international (European Community and Latin America) arenas.</p> <p><b>2. Develop new work areas of interest to foundation and industry clients.</b></p>	

<p>a. Leverage futures studies research and new ICT application areas to help inform clients of policy related issues.</p>	
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2.3 Objective – Develop technology driven activities to enhance CACP expertise

<b>Current Priorities</b>	
<p><b>1. Expand research in engineering and technical work</b></p> <p>a. Adapt usability and accessibility research to meet industry needs.</p> <p>b. Foster and further develop core competencies in human systems engineering.</p> <p>c. Explore development of applied research/analysis to foundation and other non-government sponsors.</p> <p>d. Enhance reputation as the “go to” center on next generation technologies and the policies that impact their implementation.</p>	<p>- expansion of the HomeLab research initiative to meet demand.</p> <p>- establish and maintain a CACP research lab to support funded project.</p> <p>- establish a rapid prototyping facility to support funded and future work in IoT and design.</p>
<p><b>2. Conduct and produce conferences/workshops</b></p> <p>a. Focus on CACP expertise in multi-disciplinary and social impact approaches to problem solution.</p> <p>b. Co-sponsored with other entities (supports collaboration).</p> <p>c. Identify funding for design and development of workshops in CACP expertise areas.</p>	
<p><b>3. CACP Policy Innovation Network</b></p> <p>a. Reinstitute CACP Innovation Policy Colloquiums and Lunches</p> <p>    a. Explore collaboration (w/CDAIT) of regional innovation groups (e.g., TAG, Peachtree Corners).</p> <p>    b. Identify new partners and develop program agendas.</p> <p>    c. Explore opportunities to jointly produce (with other GT units) new outreach activities including use of online and hybrid virtual/in-person approaches.</p> <p>b. Explore new collaboration related outreach mechanisms</p> <p>    a. Website innovation and engagement efforts.</p>	

<ul style="list-style-type: none"> <li>b. Identify areas where networking can generate new collaborative activities and partnerships.</li> <li>c. Innovation in use of social media channels and online engagement and participation platforms.</li> <li>c. Faculty initiated panels and GRA's speak at conferences.</li> <li>d. Engage in academic instruction and course development. <ul style="list-style-type: none"> <li>a. Develop special topic courses for SPP/IAC.</li> <li>b. Teach and mentor GRAs and undergraduates.</li> <li>c. Explore other opportunities for translation/education efforts such as GT-Fire and externally funded work.</li> </ul> </li> </ul>	
<p><b>1. Establish CACP processes as the Gold Standard for rapid assessment of usability and accessibility for sub-clinical medical diagnostic tests and procedures.</b></p> <ul style="list-style-type: none"> <li>a. Work with the FDA and NIH to establish usability and accessibility test standards for rapid evaluation of candidate point of care tests and procedures.</li> <li>b. Establish a state-of-the-art usability and accessibility test facility.</li> <li>c. Hire and train people with disabilities and other functional limitations as subject matter experts for evaluation projects.</li> </ul>	
<p><b>Future Priorities (5 – 10 years)</b></p>	
<p><b>1. Market HomeLab as a brand such that it becomes a national and international source for independent usability and accessibility for products and services in the home.</b></p> <ul style="list-style-type: none"> <li>a. Obtain donations to expand HomeLab's reach throughout the state.</li> <li>b. Obtain donations to expand HomeLab into key out of state markets.</li> <li>c. Develop international partnerships to facilitate research globally.</li> </ul>	

## **CACP Organizational Chart 2021-2022**

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.

## CACP Organizational Chart 2021-2022

