

Alyssa Rumsey Sheehan

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Summary

Accomplished leader and user researcher with 7+ years of experience managing multi-disciplinary teams to evaluate and develop new technologies for industry. Directed three long-term field studies with novel contributions recognized by 4 top-tier computing publications and 12 speaking engagements. Organized and self-motivated individual with the ability to manage and prioritize resources demonstrated by working full-time while completing my PhD at Georgia Tech.

Education

Georgia Institute of Technology

PhD Human Centered Computing

anticipated **May 2023**

Minor - Business Administration

M.S. Digital Media

Dec 2018

B.S. History, Technology, and Society concentration in Aerospace Engineering

Dec 2013

Skills

Research Methods: Field studies, ethnography, interviews, participatory design workshops, usability testing, contextual inquiry, surveys, log data, A/B testing, and experimental studies

Software: JavaScript, HTML, CSS, Python, SolidWorks, CATIA, Adobe Suite, Figma, Sketch, SPSS, Qualtrics

Communication: Undergraduate instructor, curriculum development, technical writing, collaboration and negotiation

Work Experience

Georgia Center of Innovation for Manufacturing

March 2016 - Present

Senior Project Manager - Atlanta, GA

- Responsible for daily operations including primary client interaction, business development, and strategic partnerships supporting administration of a \$180k annual operating budget.
- Strong relationship builder experienced at forming new partnerships across industry, academia, and government resulting in 150 new company collaborations annually.
- Expert knowledge of current trends in smart technologies demonstrated by serving on the board for 3 industry non-profit organizations.
- Conduct new technology integration and evaluation projects for manufacturers sharing best-fit solutions via 3 keynote speaking engagements and 2 popular media articles.

Project Manager - Atlanta, GA

- Coached business startups including LivFul, Sumo Robot League, and The Stair Barrier using Lean Startup principles contributing to an economic benefit of over \$118k.

- Initiated new strategic partnership with GT K12 InVenture Prize leading to the formation of a nationwide summer program for product design.
- Executed a comparative analysis of manufacturing education programs in Georgia resulting in a journal publication presented at the North American Manufacturing Research Conference (NAMRC).

Lockheed Martin Aeronautics

Dec 2013 - March 2016

Operations Leadership Development Program - Fort Worth, TX

- *F-35 Quality Team Lead*: Defined success criteria and led interdisciplinary team of 10 to develop and implement 86 work instruction documents for Safety of Flight inspections delivering ahead of schedule.
- *F-35 Production Supervisor*: Managed 6 direct reports, created a cross functional training program, and redesigned the shop floor layout using Lean principles reducing production lead times by 12%.
- *Facilities Engineer*: Managed a portfolio of projects worth \$250K overseeing site renovations with contracted and in-house firms.

C-130 Quality Engineer - Marietta, GA

- Identified constraints through quantitative data analysis and implemented process improvements achieving a 22% defect reduction for the mid-fuselage production team.
- Developed training curriculum and became Subject Matter Expert for SAP Quality Engineering Workbench teaching over 300 engineers and receiving 2 leadership awards for leading and inspiring others.
- Designed and validated novel applications of Internet of Things technologies resulting in 2 white papers and improvements in production scheduling by 82%.
- Mentored and administered workload assignments for the C-130 quality program summer intern program.

Publications and Presentations

Conference Proceedings

- A. Rumsey and C. A. Le Dantec. *Manufacturing Change: The Impact of Virtual Environments on Real Organizations*. In Proceedings of the 2020 on Computer Human Interaction Conference (CHI '20).
- A. Rumsey and C. A. Le Dantec. *Clearing the Smoke: The Changing Identities and Work of Firefighters*. In Proceedings of the 2019 on Designing Interactive Systems Conference 2019 (DIS '19). ACM (2019). **Best Paper Award**.
- A. Rumsey and C.A. Le Dantec. *Clearing the Smoke*. Career Research and Innovation Development Conference (CRIDC) 2019. **Honorable Mention Award**.
- A. Rumsey, J. Morehouse and C. Dinsmore. *Evaluating Manufacturing Workforce Development Initiatives in Georgia*. In Proceedings of the 47th North American Research Conference 2019 (NAMRC '19).

Book Chapter

- A. Rumsey and C. A. Le Dantec. Escaping the Holodeck: Designing Virtual Environments for Real Organizations. *Human-Technology Interaction: Shaping the Future of Industrial User Interfaces*. Springer (Springer Nature), 2022.

Workshop Papers

- A. Rumsey and C. A. Le Dantec. (2018, November). *Manufacturing Transformation: Understanding the Impact of New Digital Technologies on Workplace Practice*. Workshop: The Industrial Internet of Things: New Perspectives on HCI and CSCW within Industry Settings. 2018 Conference on Computer Supported Cooperative Work and Social Computing (CSCW '18).
- A. Rumsey. *Smart Cities: The Intersection of Citizenship*. Conference for the Society for Social Studies of Science (4S '17).
- Lockheed Martin White Papers - *The Use of Live-Streaming for Time Savings in the Inspection Process*, 2015; *A Proposal for Semi-Autonomous Drone use during Aircraft Maintenance Schema*, 2016.

Popular Media Articles

- A. Rumsey. 2020. COVID encouraging small and mid-sized manufacturers to use new technologies. *SmartIndustry*. <https://www.smartindustry.com/articles/2020/covid-encouraging-small-and-mid-sized-manufacturers-to-use-new-technologies/>
- A. Rumsey. 2020. Gearing up the next-generation workforce. *IndustryWeek*. <https://www.industryweek.com/talent/article/21123026/gearing-up-the-nextgeneration-workforce>

Invited Panels and Keynotes

- Designing Tools for Meaningful Work in Blue Collar Industries. Internet of Things for Manufacturing (IoTfM) Symposium, 2021.
- Women's Leadership Series: Textiles and Technology. Next Generation Manufacturing, 2020.
- XR in the Workplace. Internet of Things for Manufacturing (IoTfM) Workshop, 2019.
- The Future of Work in Manufacturing. Georgia Power Research Group, 2019.
- Understanding the Impact of VR for Engineering Analysis. GVU Research Showcase, 2019.
- Design Thinking to Navigate Product Development. LaunchPad2X, Prototype to Production 2018.
- The Intersection of Citizenship and Smart Cities. GVU Research Showcase, 2017.
- In Her Footsteps. Digital Integrative Liberal Arts Center (DILAC) Dean's Showcase, 2017.
- Knowing your Resource Landscape. Women in Manufacturing, Savannah Shines Summit, 2017.
- If you have read it this far, I owe you lunch!

Leadership

Women in Manufacturing , President	2022
Women in Manufacturing , Director of Manufacturing Technology	2021
Women in Manufacturing , Membership Chair	2020
Next Generation Manufacturing , Women's Leadership Entrepreneurship Chair	2022-2019
Gwinnett Movers & Makers , Judge	2022
Lathems Mill HoA Board Member	2022
Children's Hospital of Atlanta (CHOA) , Qualitative Lead, GT Volunteer Consulting Club	2020
The Bridge Academy , Board Member	2017, 2018
GT Ivan Allen College Affinity Group , Founder and President	2014

Awards, Honors, and Grants

Cherokee Top 10 in 10 Award	2022
GVU Foley Scholars, Finalist	2021
Designing Interactive Systems (DIS), Best Paper	2019
Human Computer Interaction Consortium (HCIC), Selected Participant	2019
Career Research & Innovation Development Conference (CRIDC), Honorable Mention	2019
Siemens, Education and Research Grant	2019
GVU & IPaT, Community Engagement Grant	2018
General Electric, Presidential Fellow - Warsaw, Poland	2017
GT Community Impact Award, Finalist	2017
Lockheed Martin, Mission Success Talent Development Program	2016
Lockheed Martin, SPOT Achievement Award (x2)	2015
Lean Six Sigma Green Belt Certified	2014

Teaching Experience

CS 3750 User Interface Design, Instructor	Summer 2021
<ul style="list-style-type: none">Instructor of Record for 50 undergraduate computer science students.	
GT1000 Research Methods, Instructor	Summer 2020
<ul style="list-style-type: none">Instructor of Record for 25 undergraduate teaching mixed methods research	
GT1000 Research Methods, Instructor	Summer 2019
<ul style="list-style-type: none">Instructor of Record for 25 undergraduate teaching mixed methods research	
The Bridge Academy, Volunteer Instructor	2016 – 2018
<ul style="list-style-type: none">Developed and taught curriculum for 20 high school students on Design Thinking	

Academic Service

Volunteer

CHI 2022 Design Track B, Program Committee Assistant
COMPASS 2021, Shadow Program Committee
CHI 2021 Design Track A, Program Committee Assistant
IEEE VR 2020, Sponsorship and Exhibits Committee Member
DIS 2019, Session Chair for Wearable Devices

Peer Reviewing

Conferences- CHI 2021, 2020, 2019 & 2018, DIS 2019, CSCW 2018, CHI Play 2018, 4S 2017
Journals- Journal of the Association for Information Systems 2018

Press Coverage

- Forbes. *Here are a couple of great examples of digital tools revving up technical training.*
<https://www.forbes.com/sites/jimvinoski/2021/12/30/here-are-a-couple-of-great-examples-of-digital-tools-revving-up-technical-training/?sh=782fdcfed26>
- Industry Week. *Innovation Lab Helps Small Manufacturers Grow.*

<https://www.industryweek.com/the-economy/article/21148817/innovation-lab-helps-small-manufacturers-grow>

- Tech Unbound Podcast. *Don't Get Burned. Understanding Tech Adoption Among Firefighters.*
[https://www.spreaker.com/user/10751784/ep8-don-t-get-burned-understanding-tech-](https://www.spreaker.com/user/10751784/ep8-don-t-get-burned-understanding-tech)
- Statesboro Herald. *Looking for more female engineers.*
<https://www.statesboroherald.com/local/looking-more-female-engineers/>