

# Carter Buckner

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## Research Interests

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Usable Privacy, Responsible AI, Privacy Preserving AI, User-Centered Privacy, Technology Privacy Policy

## Education

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Ph.D. Computer Science | Focus: User-Centered Privacy and AI | Cum GPA: **3.5**

Aug 2022 – *present*

University of Arkansas, Fayetteville (UARK)

B.S. Computer Science | Minor Music | Cum GPA: **3.479**

Dec 2021

University of Arkansas, Fayetteville (UARK)

## Awards and Fellowships

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NSF LSAMP Bridge to Doctorate Fellowship

Aug 2022

## Research Experience

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### Security and Privacy Lab

Jan 2022 – *present*

Graduate Assistant, Qinghua Li, *Advisor*

1. Currently working to develop policy recommendations on the use of big data and AI in critical sectors for the state of Arkansas. This project also considers changes in privacy perception among different demographics. This is a collaborative project with the UARK Public Policy department.
2. Contributed to a project for securing solar grid infrastructure. This is a Department of Energy funded project in collaboration with other schools and UARK departments.

## Work Experience

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Research Assistant, Technology Privacy University of Arkansas

Jan-May 2022

- Worked with Dr. Qinghua Li on a government funded project to secure the energy grid
- Project explored security vulnerabilities for solar farms
- Tested different security vulnerabilities for a web application used on the project

Technology Software Intern, Northrop Grumman Corporation

Summer 2019-2022

- Developed a regression test framework for updates to B-2 aircraft software
- Worked with a team to develop a database tool for internal career development
- Created and taught software courses for internal career development
- Developed components of a web-based form
- Tested components manual with SQL database entries

## Teaching and Presentations

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### Digital Humanities Meet Up

Jan 2023

- An interdisciplinary group of faculty and students discussing technology's overlap with the Humanities
- Discussed privacy and societal implications of AI
- Described AI fundamentals and how they relate to concerns for AI

### Guest Lecturer, Intro to Digital Humanities Course

Sep 2023

- A course on technology's impact on society
- Discussed societal implications of AI
- Crafted practical examples to show AI behavior
- Taught how models are built
- Discussed bias and uncertainty in large language models (LLMs)

## Extracurriculars, Volunteerism, and Leadership

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Syphony of Northwest Arkansas (SoNA)

Jan 2023 – *present*

- Double Bassist for a regional symphony

St. James Food Pantry

Mar 2023 – *present*

- Performs general contracting work
- Handles the registration process and logistical tasks
- Offers technical solutions for handling pantry data

Eagle Scout Rank, Boy Scouts of America

April 2017

- Built a gazebo for a local school turned park
- Organized donations and volunteerism from people throughout the community
- Held numerous leadership positions