

# Teanna Barrett

Seattle, Washington

[tb23@cs.washington.edu](mailto:tb23@cs.washington.edu)



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*My research articulates and questions the value systems of data science fairness paradigms as a means to understand contemporary anti-blackness and inform design frameworks for liberatory technology.*

## **Education:**

### **University of Washington | Seattle, WA**

(June 2024 - Present)

- PhD Computer Science student
- Co-advised by Leilani Battle, PhD and Amy Zhang, PhD
- **Concentration:** Human-Computer Interactions (HCI), ML Ethics and Community-based Participatory Research (CBPR)

### **Howard University | Washington, D.C. | GPA: 3.97**

(Aug 2019 - May 2023)

- Summa Cume Laude, Bachelor of Science in Computer Science with a minor in Philosophy
- **Relevant Coursework:** Probability and Statistics I, Intro to ML, Applied Data Science, Affective Computing, Database Systems (SQL), Computer Science III (Data Structures & Algorithms)
- **Activities:** Intro to CS Teacher's Assistant (Fall 2020), Howard University Community Gospel Choir (2020-2023), Tapia Conference Student Volunteer (Sept 2022), AAAI Undergraduate Consortium (Feb 2023), FAccT Volunteer (June 2023)

## **Publications:**

- Barrett, T., Chen, Q., & Zhang, A. (2023, June). [\*\*Skin Deep: Investigating Subjectivity in Skin Tone Annotations for Computer Vision Benchmark Datasets\*\*](#). In Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (pp. 1757-1771).
- Corriette, B., Parsons, D., Alim, C., Barrett, T., Cranston, T., & Washington, G. (2023, March). [\*\*Using VR to Elicit Empathy in Current and Future Psychiatrists for their Patients of Color\*\*](#). In 2023 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW) (pp. 187-190). IEEE.
- Barrett, T. (2023). [\*\*Kiwibots on Kampus: The Ethical Concerns of Autonomous Vehicles in Black Spaces\*\*](#). GRACE: Global Review of AI Community Ethics, 1(1).
- Aryal, S. K., Barrett, T., & Washington, G. (2022, October). [\*\*Evaluating Novel Mask-RCNN Architectures for Ear Mask Segmentation\*\*](#). In Proceedings of the 2022 11th International Conference on Bioinformatics and Biomedical Science (pp. 46-53).
- Aryal, S., Barrett, T., & Aryal, S. (2022) **Ear Detection and Recognition Survey**. Manuscript in preparation.

## **Research and Work Experience:**

### **AVELA - A Vision for Engineering Literacy & Access**

(June 2024 - Present)

- Teaching a web design class to students of Garfield High School
- Wrote, coordinated and was the corresponding author for manuscript submissions

### **DUB REU Research Mentor | University of Washington**

(June 2024 - Aug 2024)

- Advising two undergraduate students in exploring the impact of LLMs on learning D3
- Co-organizer and panelist for DUB REU graduate school panel

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## Technology and Power Network

(June 2021-Present)

- Programmed subsequent 2-session workshop called “Application Denied” about building technology for recording registers that track algorithmic harms
- Facilitated third part of workshop at FAccT ‘22
- Presented at Cambridge Code as Conversation conference

## Research Assistant | Morehouse School of Medicine

(Aug 2023 - June 2024)

- Assisted HIV prevention intervention projects led by Rhonda Holliday, MPH, PhD
- Awarded 2nd Place overall for “PrO Sisters: Assessing PrEP Knowledge and Uptake Willingness Among Black Women” poster at the 2024 Blumenthal Public Health Symposium
- Managed, cleaned and analyzed qualitative focus group and quantitative survey data
- Curated thorough literature reviews for five manuscript submissions

## PRIME AIM AHEAD Program | NIH

(Sept 2022 - May 2023)

- Registered All of US Workbench Researcher for Electronic Health Record (EHR) data
- Completed self-guided trainings on health equity and Machine Learning as an inaugural member of the NIH funded program

## Undergraduate Research Assistant | Howard University

(Jan 2020-May 2023)

- Presented project updates to members of Affective Biometrics Lab
- Participated in troubleshooting meetings for Virtual Machine maintenance
- Built life-like avatar in Unity using blender and Unity Multipurpose Avatar assets
- Writing literature review of VR applications for DEI trainings

## DUB REU | University of Washington

(June 2022 - Aug 2022)

- Presented poster, “Skin Deep: Uncertainty in Skin Tone Annotations for Computer Vision Fairness Benchmarks”
- Conducted literature review of skin tone annotation procedures in CV for over 70 papers
- Developed and piloted annotation system for Mechanical Turk

## ACSC Data Science Program

(May 2022)

- Completed month-long self-guided training in Data Science
- Collected and cleaned DC data to generate several data visualizations
- Presented a final project on the social impact of CCTV police cameras in D.C.

## NYU Center for Data Science Undergraduate Research Program

(Jan 2021- July 2021)

- Utilized Twitter API and Jupyter Notebooks to analyze the frequency of BLM-related tweets during June 2020 with histograms
- Annotated over 200 tweets for Twitter data research
- Participated in 3-day Data Science Bootcamp, conducted several knowledge-building interviews, and completed NYU Research Ethics course

## Diverse Ear Biometric Dataset | Howard University

(Mar 2020-Mar 2022)

- Wrote survey paper on Ear Recognition methodologies
- Collected and mask-labeled over 300 images for CV dataset
- Led undergraduate research team in building ear image dataset
- Utilized Google Colab and Pixel Annotation tool to collect and store 1000+ images

## Google STEP Intern | Cambridge, MA & Mountain View, CA

(May 2020-Aug 2021)

- Implemented REGEX address extraction algorithm in Android to populate a form in Kotlin

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- Scaled a map-marking algorithm using JavaScript, Java, Google Maps and Datastore APIs (with JUnit testing)

## **Relevant Skills and Experiences:**

Java, Kotlin (**Android Development**) HTML, CSS, JavaScript, (**Web Development**) Python, R, SQL, Jupyter Notebook, MATLAB, SPSS (**Data Science**), MaxQDA (**Qual**), C++, Git, REGEX, MIPS/Assembly

## **Honors and Achievements:**

**UW College of Engineering (COE) Dean's Fellow** (2024 - 2025)

**Achievement Awards for College Scientists (ARCS) Fellow** (2024 - 2027)

**Karsh STEM Scholar** Underrepresented students pursuing STEM PhD (2019 - 2023)

**Columbia DivHacks** Pinterest Anti-Racism Award for Wifi Donation App (Oct 2020)

**Howard University EECS AT&T Hackathon** First Place Award (Sept 2019)

**Industry-Research Inclusion in STEM Education** First-year research development (2019)

## **Professional Memberships:**

**LEAP Alliance** Member (June 2024 - Present)

**Tau Beta Pi at Howard University** Recording Secretary (May 2021 - May 2022)

**Howard University Society of Women Engineers** Secretary (2021-2022), President (2022-2023)