

F. Megumi Kivuva

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Education

- exp. 2027 ■ **Ph.D., University of Washington** Information Science.
- 2022 ■ **BA, Bard College** in Computer Science and Spanish Studies. *minor*: Experimental Humanities.
Thesis title: *Quien soy yo?: Integrating Computer Science in a Spanish Literature Classroom.*
- **Certificate, Open Society University Network (OSUN)** Civic Engagement.

Research Experience


- 2021-2022 ■ **Undergraduate Research Assistant.** *University of Washington, Code and Cognition Lab* where I researched emerging critical consciousness in secondary computer science classrooms by teaching a summer class to a diverse group of high school students in Seattle.
- 2022-present ■ **Graduate Research Assistant.** *The University of Washington's Center for Learning, Computing, and Imagination* where I utilize community participatory research to understand the barriers to accessing computing education and co-design interventions to make computing education more accessible to refugee youth.

Teaching Experience

- 2022 – present ■ **Volunteer Instructor** *Refugee Women's Alliance* Teach computer science-related lessons to 40 refugee students in grades 3-5. Chaperone field trips and provide homework assistance to students. Translate in Swahili and Spanish when needed.
- Summer 2023 ■ **Instructor** *Upward Bound* Taught cultural computational embroidery class for low-income and first-generation 9-12 graders. Students learned to program an embroidery machine using TurtleStitch, a block-based editor built on Snap!.
- 2019 – 2022 ■ **Media Corps Member** *Bard College Experimental Humanities Department* Taught and developed programming workshops centered around the intersection of literature and programming.
- 2020, 2022 ■ **Teaching Assistant** *Literature in the Digital Age, Prof. Patricia Lopez-Gay* Taught class once a week for students attending class virtually; developed and taught all curriculum for the programming aspects of the course using Twine and p5.js.
- 2018 – 2022 ■ **Lead STEM Education Fellow** *Bard College Center for Civic Engagement* Organized and developed STEM educational programming for community partners catering to grades K12 in the Hudson Valley.
- Summer 2021 ■ **Teaching Assistant** *Creatively Coding a Better Future, Jayne Everson* Collaborated on curriculum, assessment development, and grading for a summer course for low-income and first-generation high school students in the Upward Bound program.
- 2014-2018 ■ **Lead Intern** *Fund for the Advancement of Minorities through Education (FAME)* Taught pre-algebra to 15 seventh-grade students from varying academic backgrounds; planned week-long enrichment trips to universities and companies to expose students to different career paths; managed and trained new interns.

Publications



NOTE: In computing education, conferences are subject to a rigorous peer review, equating them with journal articles in significance. Typical acceptance rates are around 25-30% for SIGCSE and about 20-25% for ICER.

- 1 F. M. Kivuva, J. Everson, C. Montes De Haro, and A. J. Ko, "Cultural-centric computational embroidery," in *Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 1*, ser. SIGCSE 2024, , Portland, OR, USA, Association for Computing Machinery, 2024, pp. 673–679, ISBN: 9798400704239.  DOI: 10.1145/3626252.3630818.
- 2 F. M. Kivuva, K. O'Hara, and A. J. Ko, "Exploring identity through computing integration in a spanish language & literature class," Atlanta, Georgia, 2023.
- 3 J. Everson, F. M. Kivuva, and A. J. Ko, "A key to reducing inequities in like, AI, is by reducing inequities everywhere first: Emerging critical consciousness in a Co-Constructed secondary CS classroom," en, in *Proceedings of the 53rd ACM Technical Symposium on Computer Science Education*, Providence RI USA: ACM, Feb. 2022, 209–215 [BEST PAPER].
- 4 F. Megumi Kivuva, "Quién soy yo? [who am i?]: Exploring identity through analyzing Afro-Cuban poetry and creative coding in a Post-Secondary spanish literature classroom," M.S. thesis, Bard College, 2022.
- 5 A. Oleson, B. Xie, J. Salac, J. Everson, F. M. Kivuva, and A. J. Ko, "A decade of demographics in computing education research: A critical review of trends in collection, reporting, and use," en, in *Proceedings of the 2022 ACM Conference on International Computing Education Research V.1*, Lugano and Virtual Event Switzerland: ACM, Aug. 2022, pp. 323–343.



Awards and Achievements

- 2023  **National Science Foundation Graduate Research Fellowship (NSF GRFP):** 3 years of PhD funding over 5 years.
- 2022  **William J. Lockwood Prize:** Awarded to the student who has had the most impact on the welfare of Bard College.
- 2021  **Experimental Humanities Department Student Spotlight:** Highlighted for work in Experimental Humanities.
-  **Association of Episcopal Colleges' Charitable Service Scholar:** Awarded to the student who is engaged in volunteer service in their campus community and beyond.
- 2020  **Berta and Herold J. Drescher Scholarship:** Awarded to a student for their high moral and intellectual stature.
- 2017  **Outstanding Intern:** Fund for the Advancement of Minorities through Education.
-  **Love Award:** \$10,000 travel grant to study arts and social change in Nicaragua and Cuba.

Professional Organizations

- 2024-present  **Computer Science Teachers Association (CSTA):** Member of the Washington State Chapter of CSTA, an organization dedicated to broadening participation in computing education.
- 2021-present  **Association of Computing Machinery (ACM):** Student Member of ACM a prominent computing publication venue.

Skills

- Languages  Strong reading, writing, and speaking competencies in **English, Spanish, Swahili**.
- Coding  Java, Python, R, C, C++, HTML, JavaScript, \LaTeX

References

Available on Request