

# Gloire Rubambiza

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## Education

Cornell University	Ph.D., Computer Science	2018 - 2024 (Expected)
Grand Valley State University	B.S., Computer Science	August 2014 - April 2018

## Research Interests

Systems & Networking, Information and Communication Technologies for Development (ICTD)

## Research Talks

- **Gloire Rubambiza**, "Towards a Software-Defined Farm.", Cornell Life Sciences Lecture Series, Ithaca, NY, September 2019
- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow, "Measurement and Statistical Analysis of Submarine Internet Cable Performance.", Leadership Alliance National Symposium, Hartford, Connecticut, July 2017
- **Gloire Rubambiza**, Jerry Scripps, "Improving African Internet Traffic through Maximization of Node Centrality.", 22<sup>nd</sup> Annual University at Buffalo McNair Summer Research Conference, Buffalo, New York, August 2016

## Publications

- Kolbeinn Karlsson, Danny Adams, **Gloire Rubambiza**, Zangyueyang Xian, Robbert van Renesse, Hakim Weatherspoon, and Stephen Wicker, "Untethered: Deployable Blockchains for IoT Environments", *In Proceedings of the ACM Symposium on Cloud Computing (SoCC '18)*, Carlsbad, CA, October 2018
- **Gloire Rubambiza**, Jerry Scripps, "Improving African Internet through Maximization of Node Centrality", *McNair Scholars Journal*, vol. 20, no.1, pp. 41 - 45, 2016.

## Posters

- Danny Adams, **Gloire Rubambiza**, Xinwen Wang, Robbert van Renesse, and Hakim Weatherspoon, "An IoT-friendly Blockchain for Coordination and Accountability." The Cornell, Maryland, Max Planck Pre-doctoral Research School, Saarbrücken, Germany, August 2019

- Danny Adams, **Gloire Rubambiza**, Xinwen Wang, Robbert van Renesse, and Hakim Weatherspoon. "An IoT-friendly Blockchain for Coordination and Accountability." Public Safety Broadband Stakeholder Meeting (PSCR), Chicago, IL, July 2019
- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow, "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Grand Valley State University Student Scholars Day, Allendale, MI, April 2018
- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow, "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Michigan AGEF Alliance Fall Conference, Lansing, MI, October 2017
- **Gloire Rubambiza**, Jerry Scripps, "Improving African Internet through Maximization of Node Centrality" Grand Valley State University Student Scholars Day, Allendale, MI, April 2017

## Undergraduate Research Experience

**University of Colorado Boulder SMART Program** June 2017 - August 2017

**Adviser:** Dr. Dirk Grunwald, Area: Systems

Submarine cables handle approximately 95% of inter-continental Internet traffic. This project aims to elucidate the performance of submarine cables through analysis of metrics such as available bandwidth and packet latency.

**Ronald E. McNair Scholars Summer Research Program** May 2016 - August 2016

**Adviser:** Dr. Jerry Scripps, Area: Networks

For most African nations, a broadband Internet subscription is more than the average per capita yearly income. This project attempts to improve the intra-African Internet traffic using strategic fiber-optic link addition algorithms to increase the closeness of a sample network.

## Honors and Awards

<b>Cornell University Fellowship</b>	2018 - 2019
<b>Upsilon Pi Epsilon Honor Society</b>	2017 - 2018
<b>Eric Jon Gillette Memorial Scholarship</b>	2016 - 2018
<b>Ronald E. McNair Scholar</b>	2015 - 2018
<b>Rivertown Community Commitment Scholarship</b>	2014 - 2015

## Travel Grants

<b>ACM Symposium on Operating Systems Principles (SOSP 2019)</b>	October 2019
<b>Computing Research Association 2019 URMD Grad Cohort</b>	March 2019
<b>ACM Symposium on Cloud Computing (SoCC 2018)</b>	October 2018

## Industry Experience

**Collective Idea**                      Software Development Intern                      August 2016 - December 2016

- Developed a predictive cron job failure algorithm for the Dead Man's Snitch application
- Pair-programmed with senior developers on in-house projects such as add.a.lingua

## Teaching Experience

**SoNIC Summer Research Workshop**                      Teaching Assistant                      June 2019

- Conducted user account administration
- Led a lecture on parsing Ethernet frames at the data link layer

## Mentoring and Service

**Cornell CS PhD Mentoring Program**                      Mentor                      Aug. 2019 - Present

- Acting as a resource to first-year Ph.D. students in their graduate school transition
- Helping mentees navigate and find other resources on campus

**Cornell URM Career Fair Prep**                      Graduate Reviewer                      September 2019

- Critiqued and developed strategies for powerful résumés
- Offered tips on concise and effective elevator pitches

**Cornell, Maryland, Max Planck Summer School**                      Cornell Representative                      August 2019

- Engaged top students on the process of applying to Ph.D programs
- Facilitated student introductions to world class faculty at Cornell

**SoNIC Summer Research Workshop**                      Graduate Panelist                      June 2019

- Provided insights on life as an underrepresented graduate student in Computer Science
- Discussed strategies for successful graduate school applications

**Cornell McNair Scholars Graduate Application Panel**                      Graduate Panelist                      October 2018

- Discussed Ph.D application tips for former McNair Scholars
- Offered negotiation strategies for Ph.D admission offers

## Volunteering and Leadership Experience

**The Village at Ithaca**                      Student Achievement Coach                      January 2019 - February 2019

- Introduced new tutors to the structure of community-based learning environments
- Fostered a positive academic learning environment for local K-12 students through one-on-one tutoring support and empowerment through trust based connections

**IEEE Computer Society**                      Registration Desk Volunteer                      June 2017

- Helped registrants with checking in and answering any questions pertaining to the 47th IEEE/IFIP International Conference on Dependable Systems and Networks

**The Immigrant Connection**                      Citizenship Class Tutor                      January 2017 - March 2017

- Familiarized local immigrants with the U.S citizenship process
- Improved the future citizens' confidence and English literacy through quizzing on American civics and history in anticipation for the U.S. citizenship test

**Samaritas**                      Cultural Mentor/ESL Tutor                      September 2016 - December 2016

- Organized weekly English lessons for an immigrant family to strengthen their English speaking and writing skills
- Coordinated occasional trips to downtown Grand Rapids, MI and surrounding areas to familiarize the family with their new environment

**GVSU Office of Undergraduate Research & Scholarship**                      Session Host                      April 2016

- Provided ongoing welcome and direction to poster presenters and attendees
- Coordinated with the OURS office to keep presentation rooms on schedule