

# Gloire Rubambiza

Cornell University  
Computing and Information Science  
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## Education

Cornell University	Ph.D., <b>Computer Science</b>	2018 - 2023 (Expected)
Grand Valley State University	B.S., <b>Computer Science</b>	August 2014 - April 2018

## Research Interests

Systems & Networking, Computing for Development, Human Computer Interaction

## Research Talks

- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow. "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Presented at the Leadership Alliance National Symposium, Hartford, Connecticut, July 2017
- **Gloire Rubambiza**, Jerry Scripps. "Improving African Internet Traffic through Maximization of Node Centrality." Presented at the 22<sup>nd</sup> Annual University at Buffalo McNair Summer Research Conference, Buffalo, New York, August 2016

## Posters

- Danny Adams, **Gloire Rubambiza**, Xinwen Wang, Robbert van Renesse, and Hakim Weatherspoon. "An IoT-friendly Blockchain for Coordination and Accountability." Presented at the Public Safety Broadband Stakeholder Meeting (PSCR), Chicago, Illinois, July 2019
- Kolbeinn Karlsson, Danny Adams, **Gloire Rubambiza**, Zangyuenyang Xian, Robbert van Renesse, Hakim Weatherspoon, and Stephen Wicker. "Untethered: Deployable Blockchains for IoT Environments." Presented at the ACM Symposium on Cloud Computing (SoCC), Carlsbad, California, October 2018
- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow. "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Presented at the Grand Valley State University Student Scholars Day, Allendale, Michigan, April 2018
- **Gloire Rubambiza**, Dirk Grunwald, and Eric Wustrow. "Measurement and Statistical Analysis of Submarine Internet Cable Performance." Presented at the Michigan AGEP Alliance Fall Conference, Lansing, Michigan, October 2017

## Undergraduate Research Experiences

### 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 study aims to elucidate the performance of submarine cables through the 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 study aims to improve the intra-African Internet traffic using strategic link addition algorithms to increase the closeness of a sample network.

## Honors and Awards

### Cornell University Fellowship

2018 - 2019

### Paul G. Allen School First-Year Ph.D. Fellowship

(Declined)

### UW Achievement Rewards for College Scientists Fellowship

(Declined)

### Upsilon Pi Epsilon Honor Society

2017 - 2018

### Eric Jon Gillette Memorial Scholarship

2016 - 2018

### Ronald E. McNair Scholar

2015 - 2018

## Industry Experience

### Collective Idea

Software Development Intern

August 2016 - December 2016

- Developed a predictive algorithm for the Dead Man's Snitch application based on confidence interval and past log data
- Paired with senior developers on in-house projects such as add.a.lingua

## Teaching Experience

### SoNIC Workshop

Teaching Assistant

June 2019

- Conducted user account administration
- Led a lecture on parsing Ethernet frames

## Volunteering/Leadership Experience

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

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

**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