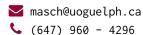
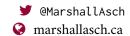
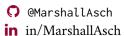
## Marshall Asch









I am currently a Masters Student and Teaching Assistant at the University of Guelph studying Mobile ad hoc Networks. I have a passion for command-line tools, networking and anything that runs on a \*nix server. Most of my work has been on lower level cli tools and backend systems, but I do venture out into user land with web pages and full stack mobile apps.

### **Education**

- 2019 present M.Sc. Computer Science, University of Guelph, Canada in Mesh Networking.
  - Degree with Distinction Recognition for Outstanding Academic Performance.

    B.Comp. (Hons) Computer Science, University of Guelph, Canada.

## **Open Source Projects**

- 2020 Present | liquidctl maintainer Active Maintainer on the python liquid cooler controller CLI application
- 2021 Present Botomir maintainer C Active Maintainer on the nodeJS Discord Bot application

## **Employment History**

- 01/2021 Present Developer, Value Connect, Guelph, ON.
  - Graduate Teaching Assistant (Compilers), University of Guelph, ON.
- 09/2020 12/2020 Graduate Teaching Assistant (Cloud Computing), University of Guelph, ON.
- 01/2020 04/2020 Graduate Teaching Assistant (Operating Systems), University of Guelph, ON.

- 05/2019 − 08/2019  **University of Guelph Mitacs Accelerate Intern**, Left, Maple Ridge, BC.
- o1/2019 − 04/2019 Lead Developer and Undergraduate Research Assistant, Working on the eNuk project, University of Guelph, ON.
  - Undergraduate Teaching Assistant (Introduction to Computer Applications), University of Guelph, ON.

- o6/2015 − o8/2015 High Ropes Instructor, Camp New Moon, ON
- o6/2014 − o8/2014 High Ropes Instructor, Camp New Moon, ON

# **Volunteer and Extra-Curricular Experience**

### **Volunteering**

- 09/2019 − 12/2019 Climbing Gym Monitor, University of Guelph, ON.

## Volunteer and Extra-Curricular Experience (continued)

12/2019 Major League Hacking, Local Hack Day event Organizer, Society of Computing and Information Science, Guelph, ON.

12/2018 ■ Major League Hacking, Local Hack Day event Organizer, Society of Computing and Information Science, Guelph, ON.

09/2018 − 04/2020 Society of Computing and Information Science, System Administrator, University of Guelph, ON.

#### **Committees**

o9/2019 − present **IT Strategy Advisory Committee**. University of Guelph, ON.

o9/2017 − o4/2019 Computer Infrastructure Committee School of Computer Science, University of Guelph, ON.

o9/2018 − 04/2019 Curriculum Committee School of Computer Science, University of Guelph, ON.

# **Awards and Recognitions**

09/2020 University of Guelph GSA Conference Runner up, (\$30) Awarded to the two runner up presenters for the student run conference.

■ CEPS Dean's Tri-Council Scholarship, (\$5000) Deans Scholarship awarded to NSERC award holders, University of Guelph, ON.

■ Canada Graduate Scholarships-Master's Program, (\$17500) Natural Sciences and Engineering Research Council of Canada (NSERC) Scholarship, University of Guelph, ON.

02/2020 • Ontario Graduate Scholarship, (\$5000) A merit based academic scholarship, University of Guelph, ON.

o5/2019 College of Engineering and Physical Sciences Society of Excellence, Demonstrated academic excellence and outstanding contributions to the university community, University of Guelph, ON.

College of Engineering and Physical Science Deans Honours List, University of Guelph, ON. F15, W16, F16, W17, F17, W18, F18, W19

10/2018 **Dr. James Linders Scholarship**. (\$500) Awarded for achieving the highest third year average by the School of Computer Science, University of Guelph, ON.

09/2015 University of Guelph Entrance Scholarship. (\$2000) Awarded for being admitted with an average greater then 85% by the University of Guelph, ON.

#### **Research Grants**

04/2020 Northern Scientific Training Program. (\$2150) Awarded to conduct fieldwork in Northern Canada by Polar Knowledge Canada.

o4/2019 Northern Scientific Training Program. (\$2307) Awarded to conduct fieldwork in Northern Canada by Polar Knowledge Canada.

### **Non Academic Presentations**

- o9/2020 **Introduction to Git**, Guelph Coding Community, Guelph, ON.
- o3/2020 MSc. Seminar Incorporation of Human Mobility in Data Replication Schemes in Mobile Ad Hoc Networks, Guelph Coding Community, Guelph, ON.
- 09/2019 Advanced Git, Guelph Coding Community, Guelph, ON.
  - Introduction to BASH and Git, Guelph Coding Community, Guelph, ON.
- o<sub>4</sub>/<sub>2019</sub> Bridging the Digital Divide with Mobile Ad Hoc Networks in the Circumpolar North, Guelph Coding Community, Guelph, ON.
- 12/2018 Major League Hacking Localhost Workshop, Society of Computing and Information Science, Guelph, ON.
- 11/2018 Mesh Networking, Guelph Coding Community, Guelph, ON.

### **Research Publications**

### **Conference Proceedings**

- Asch, M., Seymour, P. F., Ernst, J. & Gillis, D. (2019). Incorporation of Node Mobility in Data Replication Schemes in Mobile Ad Hoc Networks. In 2019 IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON) (pp. 0230–0236). Oral presentation and Preceding. doi:10.1109/IEMCON.2019.8936268
- Durish, N., Gillis, D., Seymour, P. F., Rourke, K., **Asch**, **M.**, Raturi, S., ... Ernst, J. (2019). Bridging the digital divide in the circumpolar north [abstract]. In *Labrador research forum*, Happy Valley-Goose Bay, Labrador, Canada.
- Gillis, D., Durish, N., Rourke, K., **Asch**, **M.**, Knarr, J., Samuels, J., ... Harper, S. L. (2019). Supporting community-based monitoring with technology in the circumpolar north [abstract]. In *Labrador research forum*, Happy Valley-Goose Bay, Labrador, Canada.
- Durish, N., Gillis, D., Seymour, P. F., Rourke, K., **Asch**, **M.**, Raturi, S., ... Ernst, J. (2018). Bridging the digital divide to support community-based monitoring in the circumpolar north [abstract]. In *Arcticnet*, Ottawa, Ontario, Canada.

#### **Conference Presentations**

- **Asch**, **M.**, Lin, X. & Gillis, D. (2020). Impact of social interactions on mobile ad hoc networks. Graduate Students Association Virtual Conference, Guelph, Canada.
- **Asch**, **M.**, Rourke, K., Seymour, P. F., Durish, N., Flowers, C., Wood, M., ... Ernst, J. (2019). Bridging the digital divide with mobile ad hoc networks in the circumpolar north. Western Student Research Conference, London, Canada.

### **Skills**

Languages ■ Strong reading, writing and speaking competencies for English, Languages

Coding Java, sql, Git, BASH, LTEX, c, Node.js, Python

Databases Mysql, Postgresql, Mongodb.

#### References

Last updated: 28th February 2021