

#SeaGL2019





Welcome to Seattle's free—as in freedom *and* coffee—GNU/Linux conference!

SeaGL has spent seven years building a grassroots technical conference that embraces and promotes free/libre/open source software, hardware, and culture.

We hope you'll have a fantastic time and learn something new, whether you spend your days maintaining hundreds of servers or are a student just getting into technology.

SeaGL is dedicated to a harassment-free conference experience for everyone. Our code of conduct can be found at **[SeaGL.org/CoC](https://seagl.org/CoC)**.

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Ada's Technical Books
Cloud Native Computing Foundation
FreeBSD Foundation
Linode
LinuxFest Northwest
Snowdrift.coop
Software Freedom Conservancy
TA3M
Ubuntu-PNW
WSeaLUG

KEYNOTE SPEAKERS

Lisha Sterling is the executive director of Geeks Without Bounds and president of Frontline Wellness United. A life long proponent of software freedom, she spent the first 15+ years of her career working for companies like Wells Fargo Bank, Amazon.com and a string of startups you barely remember. Her ideas about the importance of Libre software and hardware have been refined in the fires of civic and humanitarian projects that affect marginalized people on the outside of the digital divide. She has worked on software projects to



improve public water service in Tanzania, environmental tracking in Guatemala, protection of indigenous lands in Ecuador and the US, and the protection of refugees in Jordan and Mexico. Over the last three years, much of her work has revolved around keeping vulnerable people (and their digital doppelgangers) safe while facing harassment from individuals, hate groups, and governments.

Sage Sharp is the CEO of Otter Tech, which provides diversity and inclusion consulting. Sage has trained Code of Conduct enforcement teams for open source communities like Kubernetes, GNOME, Python, WordPress, and OpenStreetMap. They are a co-coordinator for Outreachy, a paid internship program with the goal of increasing diversity in free and open source software communities. They are a Python and Django developer for the Outreachy website. Sage was a Linux kernel developer for seven years. They are the original author of the Linux USB 3.0 driver.



Benjamin Mako Hill is a social scientist, technologist, and activist. In all three roles, he works to understand why some attempts at peer production — like Wikipedia and Linux — build large volunteer communities while the vast majority never attract even a second contributor.



He is an Assistant Professor in the Department of Communication at the University of Washington. He

is also a faculty affiliate at the Berkman Center for Internet and Society and an affiliate at the Institute for Quantitative Social Science — both at Harvard University. He has also been a leader, developer, and contributor to the free and open source software community for more than a decade as part of the Debian and Ubuntu projects. He is the author of several best-selling technical books, a member of the Free Software Foundation board of directors and an advisor to the Wikimedia Foundation.

Abigail Cabunoc Mayes is the Working Open Practice Lead at the Mozilla Foundation. Abby mobilizes leaders in the internet health movement through mentorship and training on open practices and open source. Before this, she was Lead Developer of the Mozilla Science Lab, transforming science on the web.



Prior to joining Mozilla, Abby worked as a bioinformatics software developer at the Ontario Institute for Cancer Research and at Michigan State University where she applied open source and to research problems. With a background in open source and community organizing, she is fueling a culture of openness in research and innovation.

Named in “100 awesome women in open source” by source{d}. Editor Emeritus, the Journal of Open Source Software.

ALL DAYS

3199 Childcare—**Sponsored by Indeed**

FRIDAY

9:00–9:25

EXP0 Coffee—**Sponsored by CNCF**

9:30–9:55

BPH Keynote—**Lisha Sterling**

10:00–10:25

BPH Keynote—**Sage Sharp**

10:45–11:35

3178 How to use linux tools to troubleshoot small networks—Jeff Silverman

3179 DIY Decentralization—Aeva Black

3180 Privacy, Decentralisation and Scaling with IPv6 Multicast—Brett Sheffield

3183 Introduction to test-kitchen and InSpec—Lance Albertson

12:00–12:55

Lunch break

13:00-13:20

- 3178** Containerized sourcery with Docker and Snap—Adam Monsen
- 3179** Organizing your way to a long and healthy career—Audrey Eschright
- 3180** Devops: A History—Nell Shamrell
- 3183** Adventures in De-Googling—Rachel Kelly

13:30-14:20

- 3179** Releasing Open Source Code in a Large Enterprise—Joe Roets
- 3180** Consistent Technical Documents Using Emacs and Org Mode—Mike Hamrick
- 3183** Empowering New Programmers Through Introductory Arduino Workshops—Hailee Kenney

14:45-15:05

- 3178** Glass Beatstation: An open source mobile and modular musical interface for Linux machines and musicians that don't know how to use LinuxX—Athan Spathas
- 3179** Make it Official: In Praise of Official Programs for Diversity & Inclusion—Deb Nicholson
- 3180** Old Dogs & New Tricks—John SJ Anderson



3183 Digital Art Characters Step-by-Step with Krita—Alice Monsen

15:15–16:05

3178 My Own Private Binary—Brian Raiter

3183 Building Custom Linux Systems with Yocto—Robert Joslyn

15:15–15:35

3179 More than dabbling in a Security Engineer career—Dwayne Thomas

3180 Classic Tools for the Modern Age: Introducing Wash, the cloud native shell—Michael Smith

15:45–16:05

3179 Free Press, Free Society—Emmanuel Morales

3180 Lesser-known features of GNU Makefile—Flynn Liu

16:15–16:35

3178 Security Compliance Testing with Inspec—garrett honeycutt

3179 The Tor Project: the state of the Onion—Gaba

3180 Microservices - A Cautionary Tale—Amulya Bandikatl



3183 This is fine (the meme)—Kate Pond

16:45–17:05

3178 Personal OSINT—Nadine Whitfield

3179 25+ Years of FreeBSD and Why You Should Get Involved!—Deb Goodkin

3180 Controlling your model trains with your computer and free software—Mairi Dulaney

3183 Technically Incorrect—Jerome Comeau

SATURDAY

9:00–9:25

EXPO Coffee—**Sponsored by CNCF**

9:30–9:55

BPH Keynote—**Benjamin Mako Hill**

10:00–10:25

BPH Keynote—**Abigail Cabunoc Mayes**

10:45–11:35

3178 Codes of Conduct and Restorative & Transformative Justice—Aaron Wolf

3179 Taking control of our Networks, Data & Privacy—Nishant Sharma



3180 Playing in the Sandbox—Toby Betts

3183 Learning Natural Language Processing through
The Regender Project—Eva Monsen

12:00–12:55

EXPO Lunch

13:00–13:50

3178 Digital Painting in Krita—Oscar Baechler

3179 Open Source Won, but Software Freedom Hasn't
Yet: A Guide & Commiseration Session for FOSS
activistsX—Bradley M. Kuhn

3180 Bash 101: platforms, user-space, and
built-ins—Ryan McKern

3183 Building Your Own Keyboard with Free
Software—Brian Mock

14:00–14:20

3178 There and Back Again, Reproducibly!—Vagrant
Cascadian

3179 Project Springtime: a DIY backyard hydroponics
system developed open-source-style—Johannes
Ernst

3180 2019: A Lisp Odyssey—Mark Polyakov



3183 Once more with style—John SJ Anderson

14:15–14:45

EXPO TeaGL—**Sponsored by Indeed**

14:45–15:35

3178 Debian Software Management—der.hans

3179 Left Shift Security (LS²) = Shifting Application Security Left—Nadine Whitfield

3183 Chaos in the system—AJ Jordan

14:45–15:05

3180 Bicycles as a Metaphor for FLOSS—Wm Salt Hale

15:15–15:35

3180 Contending With Our Culture of Discontent—Michael Dexter

15:40–17:10

3183 Free as in Freedom: Live at SeaGL!—Free as in Freedom

15:45–16:05

3178 Snek: A Python-Inspired Language for Tiny Embedded Computers—Keith Packard

3179 A QUIC History of HTTP—Bri Hatch



3180 The fallacy of move fast and break things—Dawn Parzych

16:15–17:05

3178 Co-operation: Putting it in Writing—Katheryn Sutter

3179 Getting started with Nextcloud—Matt McGraw

3180 The Death Star Postmortem—Gareth J. Greenaway

Join us at the **SeaGL After Party** for an evening of fun activities, good discussion, and food and drink.

WHEN

6pm–11pm

WHERE

Sole Repir Shop, 1001 E Pike St



FLOOR 1

ELEVATOR

RESTROOMS

STAIRS

TO BROADWAY

TO BROADWAY

EXPO

ELEVATOR

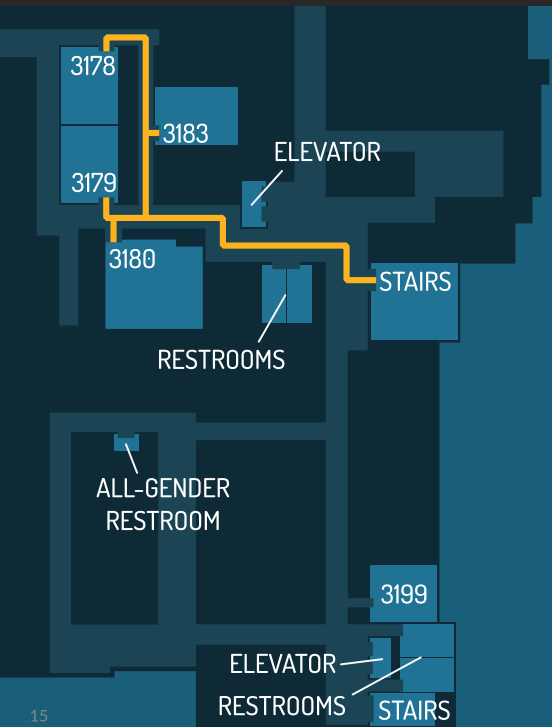
RESTROOMS

STAIRS

TO BROADWAY

TO BROADWAY
PERFORMANCE HALL

FLOOR 3



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