Women in Compilers & Tools Meetup Series Launch

April 22, 2021
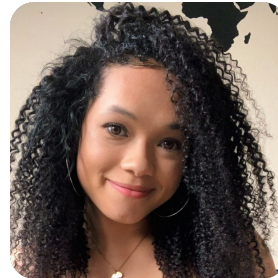
The WiCT Working Group

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Creating This Series

Why are dedicated spaces like this useful?

- Encourage more women to learn about what others are doing and can participate in, and surface role models for newcomers and enthusiasts
- An inclusive space for women, anywhere in their career, in the compiler/ language design/open source field
  - This includes projects outside of LLVM project scope (GNU, Rust, Swift, etc)
- Build relationships and network with others in this underrepresented group through this pandemic and beyond

Our Inspiration

What we've learned from similar efforts & what could this bring to the LLVM Community?

- Grad Cohort Workshop for Women
- WICArch - Women in Computer Architecture
- Diversity in Swift Community Groups
- Women Who Code Organization

What to look forward to!

We've created this series to present an opportunity where the women who make up the compiler space can be highlighted and visible to a range of individuals. To achieve this, we are supporting many different event types and series in the months to come.

All about the series

- Last Thursday of every month, 6pm Pacific time
- Event types
    - Career Panels
    - Talks ranging from Compilers and Tools to Career Development
    - Tutorials
    - Mentoring events
    - ..and more!
- Dedicated networking time

Tutorials

- Introductory Compiler Construction course for new-beginners
  - Designing the input language, Frontend, Optimization passes, Code Generation
- Teaching Assistants to help with programming exercises
- Tutorials on advanced topics in LLVM Compiler framework
- **Goal: Continued Relationship and Learning**

Mentoring Events

- Start by Call for Mentors and Mentees (CFMM) and assigning a mentor to mentee according to their needs and goals
- Long-term mentoring for new beginners to help them with open-source contribution ideas
- Short-term mentoring for brainstorming the lightning talks, tech talks ideas to be presented at the LLVM Developers' Meeting
- Mentoring on non-technical topics including finding the right mentor, right community, fighting the isolation issues, and more.

Talks

- These talks can cover a wide array of topics ranging from personal career journeys of diverse technical contributors to the many different initiatives that drive and enrich open source communities.
- We want to showcase the awesome work of women engineers and their teams so as to inspire other women to choose our field and provide them tools to navigate it.
- **Call for Speakers**: Flexible in length and plenty of availability for questions and follow up discussions.

Workshops

Similar to the past Dev Meetings & Community.o Summit, these will be opportunities to interact and problem solve with other members in the community for a shared purpose.

Attendees split into groups focusing on an aspect of their specific purpose and then reconvene to determine action items which can then be applied back into our community.

Previous Events:

- Compassionate Coding
- Inner Critic: How to Deal with Your Imposter Syndrome
- Present! A Techie's Guide to Public Speaking

Career Panels

- Allow opportunities to ask individuals about various stages in their career in industry and academia.
- Have open conversations about diversity and inclusion strategies, why does it matter, what is working and what is not.

May's Highlighted Speaker

Next month, we'll be hearing from **Jessica Paquette.**

She has been working on LLVM since 2016. Jessica mostly works on the AArch64 backend. She developed LLVM's late outlining pass (MachineOutliner), and makes a lot of contributions to the new global instruction selection framework (GlobalISel).

Her most important contribution to LLVM is the artwork on those Dragon Book tee-shirts every LLVM dev owns. She also wore a vintage square dancing dress while presenting "What's New in Clang and LLVM" at WWDC in 2019.

Upcoming Speakers

Cristina Cifuentes
Senior Director R&D
Oracle Labs Australia

Anna Zaks
Manager, Core Compiler Team
Apple

Uma Srinivasan
Compiler Engineer
Twitter

Interested in being highlighted?

- This is a great space to prepare talks that could be intended for a future wider audience!
- Able to get community feedback in a potentially less intimidating way

If you would like to participate in this series or related efforts, please let us know. This is a great space for folks of all experience levels to be highlighted and present to our supportive audience.

Past Community Efforts

Panel Discussions

- Resulted in great discussions about pipeline, mentorship, and challenges women face

Working Workshops

Expert speakers (imposter syndrome, compassionate coding. technical speaking)

Booth at Grace Hopper

Workshop at CGO 2020

Previously sponsored PLM-W at SPLASH and PLDI

LLVM Foundation

LLVM Foundation initiative to increase diversity and inclusion within the LLVM project and the field of compilers and tools

- A new face to the LLVM Foundation's *Diversity and Inclusion* and *Women in Compilers and Tools* program

AMA with The President

Tanya Lattner

Why was the LLVM Foundation created?

How has the llvm community grown since the llvm foundation was formed?

Are there specific areas in the LLVM Project where you'd like to see more involvement from women and other underrepresented groups?

Community.o

Why the name Community.o?

- The name is inspired by the compilation model where object files link together for a final program
  - much like how folks from different backgrounds come together to make up LLVM's community and shared goal of inclusivity
- The name represents what this program hopes to accomplish which is to build a strong, healthy, and diverse open source community

COMMUNITY.O
Linking Together All Communities

AMA with The Youngest BoD

Cyndy Ishida

What motivated you to join the LLVM Foundations' Board of Directors?

What are the efforts have you been involved with?

Being the youngest BoD, how has been your experience?

What message would you like to convey to the LLVM community and especially the underrepresented groups?

Join our Community

- Discord channel https://discord.gg/bmPypB883n
- Email community.o@llvm.org
- Discourse https://llvm.discourse.group/c/community/women-in-compilers-and-tools

Ice Breakers & Questions

Lets meet each other!

- Why did you find this event worth attending?
- What kind of information would you like to see presented or available?
- Has anyone been to virtual conferences in the past year they enjoyed or noticed good aspects about them?
- Do you participate in any diversity focused tech community gatherings you'd recommend?