

ASSETS 2022

The 24th International ACM SIGACCESS
Conference on Computers and Accessibility

📍 Athens, Greece

📅 Oct 23-26

ASSETS'22 LEADERSHIP TEAM

General
Chair



Jon E. Froehlich
University of
Washington

Technical Program Chairs



Kristen Shinohara
Rochester Institute
of Technology

Treasurer /
Registration Chair



Martez Mott
Microsoft Research

Hybrid Experience
Chair



Christian Vogler
Gallaudet University

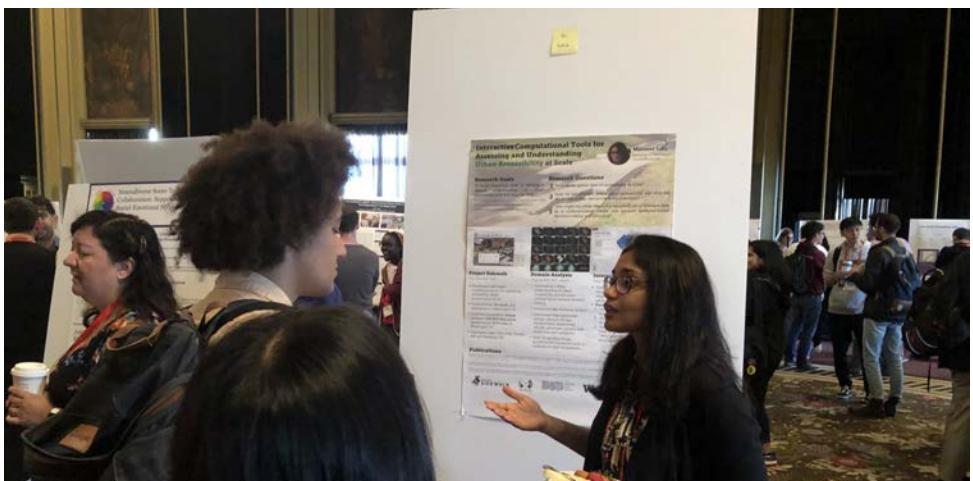
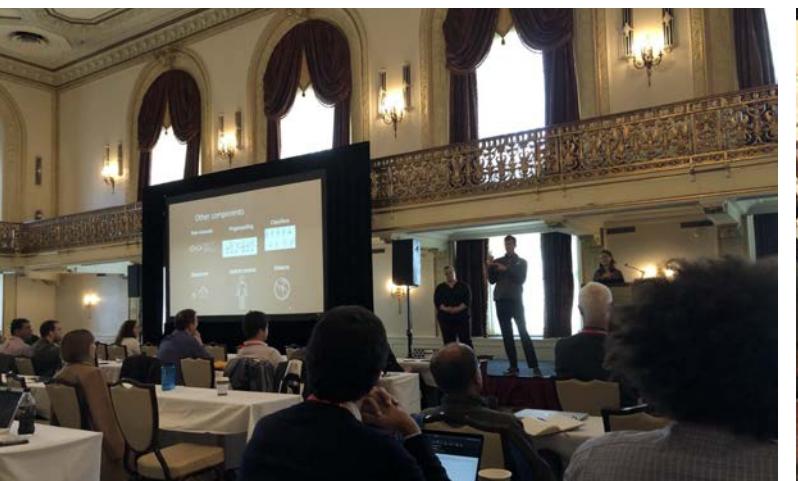
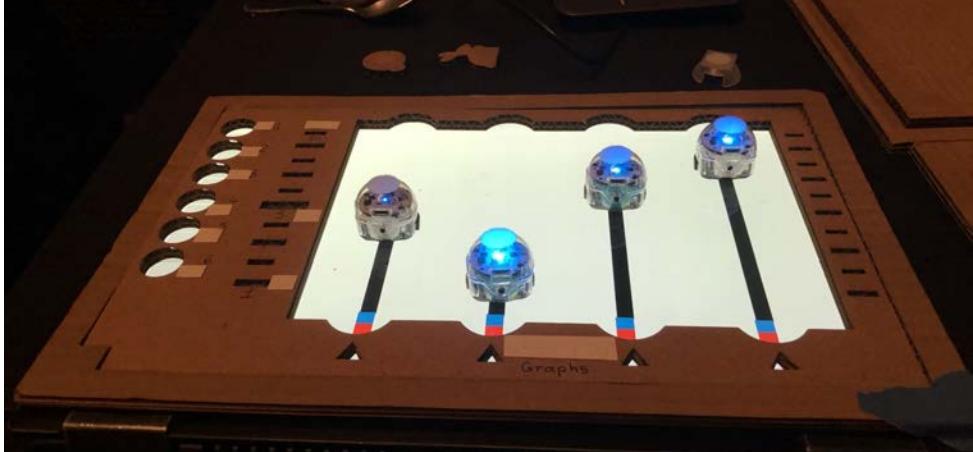
BACK TO 2019

Pittsburgh, PA



ASSETS 2019

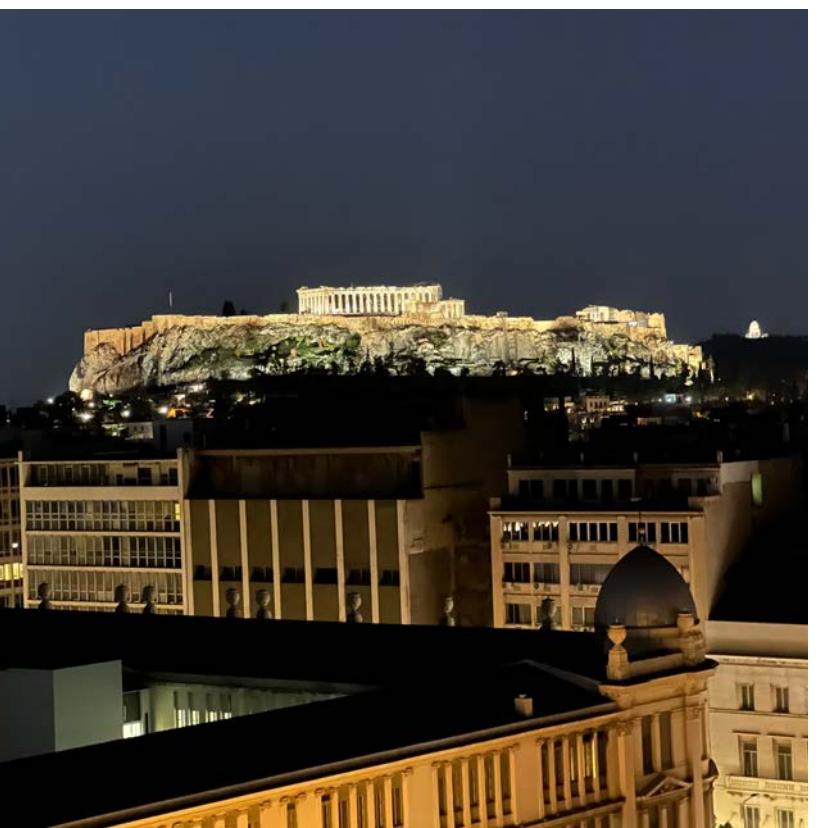
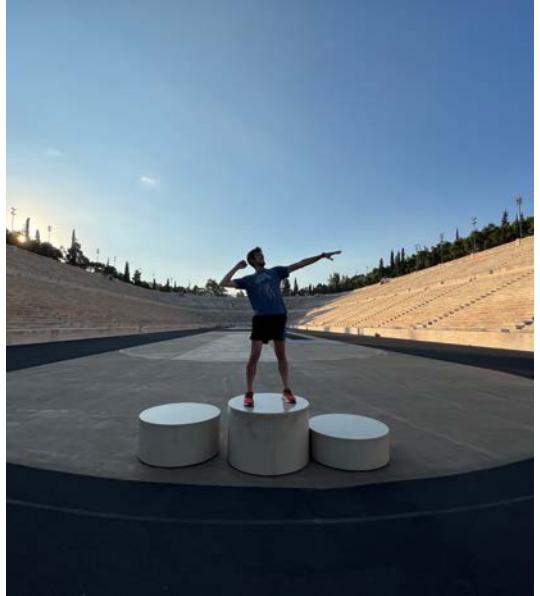
Pittsburgh, PA



WE ARE NOW BACK TOGETHER AGAIN

EXPLORING

Athens, Greece



EATING FOOD!

Athens, Greece



EXCHANGING IDEAS

Doctoral Consortium

Katta Spiel

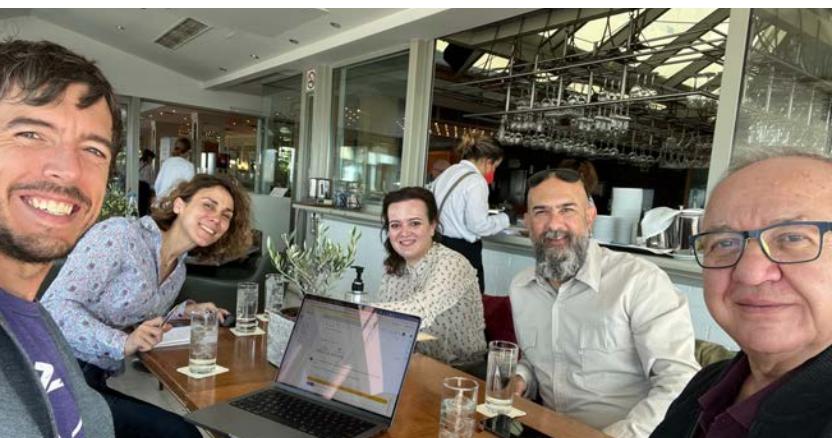
Aqueasha Martin-Hammond



CONFERENCES ARE ABOUT PEOPLE

PEOPLE

ASSETS'22



302

Participants

161



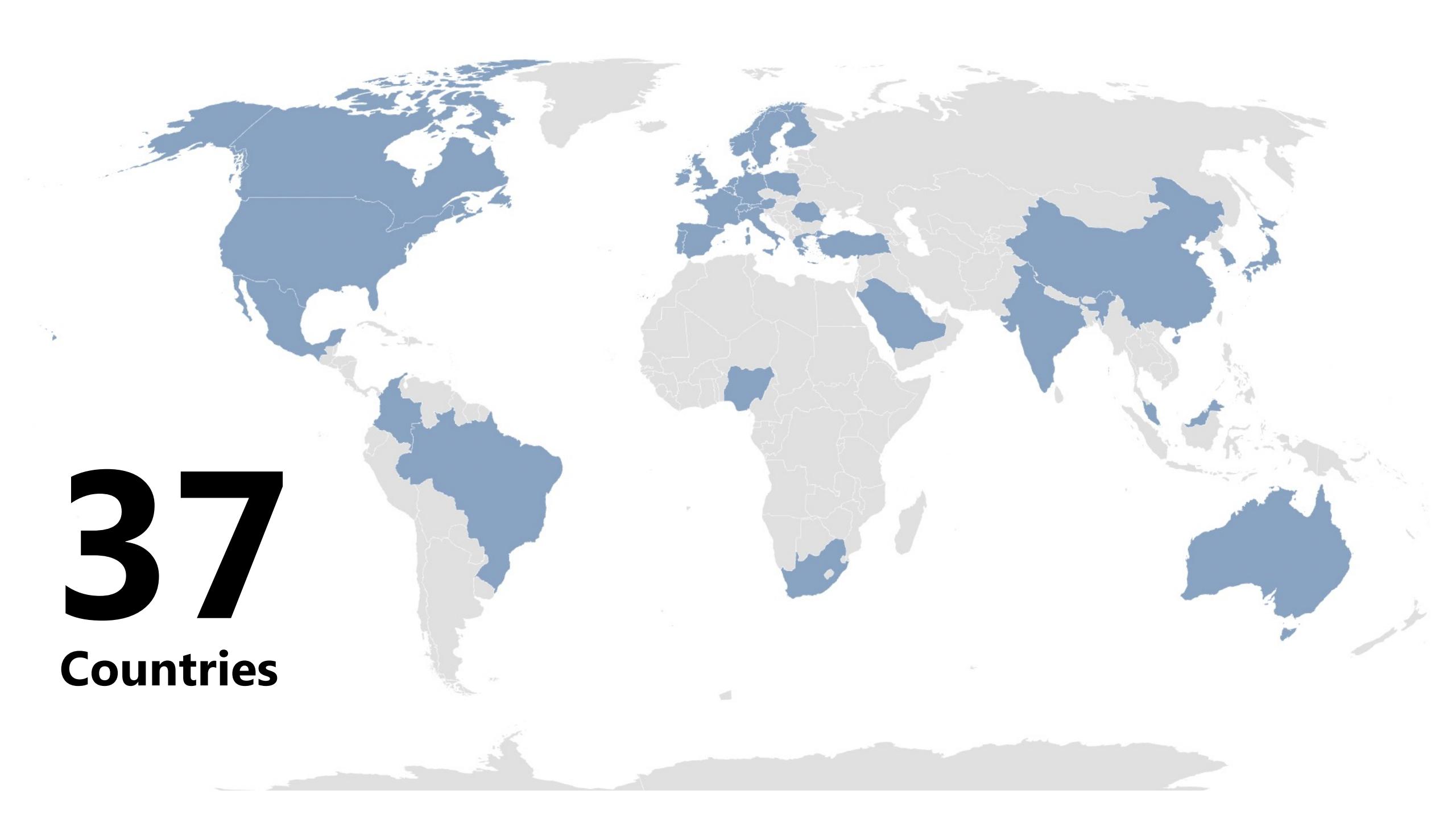
In-person

141



Virtual

37
Countries



151

Workshop Participants

A GREEK WELCOME

LOCAL ARRANGEMENTS

Local Chairs



Georgios Kouroupetroglou
Γεώργιος Κουρουπέτρογλου
National and Kapodistrian
University of Athens

Alexandros Pino
Αλέξανδρος Πίνο
National and Kapodistrian
University of Athens

Local Accessibility Chairs



Paraskevi Riga
Βιβή Ρήγα
National and Kapodistrian
University of Athens



Ariadni Velissaropoulou
Αριάδνη Βελισσαροπούλου
National and Kapodistrian
University of Athens

LOCAL ARRANGEMENTS



Georgios Kouroupetroglou
Γεώργιος Κουρουπέτρογλου
National and Kapodistrian
University of Athens

President, Association for the Advancement of Assistive Technology in Europe (AAATE)
Director, Speech and Accessibility Laboratory, University of Athens (<http://speech.di.uoa.gr>)
Head, Accessibility Unit for Students with Disabilities, University of Athens (<http://access.uoa.gr>)



Georgios Kouroupetroglou
Γεώργιος Κουρουπέτρογλου
National and Kapodistrian
University of Athens

Καλώς ήρθατε !

EXCITING PROGRAM

WEBSITE PROGRAM

<https://assets22.sigaccess.org/program.html>



Program

October 23-26, 2022

On This Page

ASSETS 2022 Program at a Glance

Program Schedule for Monday, Oct 24

Program Schedule for Tuesday, Oct 25

Program Schedule for Wednesday, Oct 26

In addition to the program page below, you can also view the conference program via the [SIGCHI Conference Program app](#), which lets you search for and filter papers and looks great on smartphones.

Whether in-person in Athens or virtual, join us on [Discord](#) to ask questions, view videos, network, and interact with authors and the ASSETS community.

ASSETS 2022 Program at a Glance

Time	Sunday, Oct 23	Monday, Oct 24	Tuesday, Oct 25	Wednesday, Oct 26	
Morning	Doctoral Consortium	7:30 to 8:45 Breakfast and Registration Desk Opens 8:45 to 9:15 Welcome 9:15 to 10:15 Opening Keynote: Haben Girma 10:15 to 11:00 Coffee Break and Poster Session 1 11:00 to 12:26 Paper Session 1	1:00 to 3:00 Virtual Social Event - Trivia	2:00 to 4:00 Virtual Networking Roundtables	7:30 to 9:00 Breakfast and Virtual/ In-Person Crossover Event 8:00 to 8:45 Registration Desk Opens 8:45 to 9:00 Welcome by ACM President Yannis Ioannidis 9:00 to 10:26 Paper Session 7

[Log In](#)

ASSETS 2022 Home



Program



Gallery



Index



Authors



Maps



Awards



My Schedule



My Lists



My Notes

Data last checked < 1m ago

[Refresh](#) Offline mode

Version 3.16.20

[Send Feedback](#)[Privacy Policy](#)

ASSETS 2022

23 October - 26 October 2022 Athens, Greece

Conference time zone is same with local time zone (UTC +03:00)



Search sessions, content items, people, notes

Mon, 24 Oct (8)

Tue, 25 Oct (7)

Wed, 26 Oct (4)



Filters

08:45 - 09:15

Welcome

- Event [Jon E. Froehlich](#)



Niki-Apollon-Athina room

09:15 - 10:15

Opening Keynote

- Keynotes



Niki-Apollon-Athina room

10:15 - 11:00

Poster Session I

- Poster [Hugo Nicolau, Taslima Akter](#)



Olympia Hall and the Mezzanine Foyer

11:00 - 12:30

AR, VR and Games

- Paper [Brian A. Smith](#)



Niki-Apollon-Athina room

13:50 - 15:15

Representation and Inclusion

- Paper [Cynthia Bennett](#)



Niki-Apollon-Athina room

WEBSITE PROGRAM

<https://programs.sigchi.org/assets/2022>

DISTINGUISHED GUESTS

Monday



Georgios Kouroupetroglou

President, Advancement of Assistive
Technology in Europe; Prof, NKUA



Haben Girma

Human rights lawyer advancing
disability justice

Tuesday



Yannis Ioannidis

President, ACM
Professor, NKUA



Clayton Lewis

Professor Emeritus, U. of Colorado
SIGACCESS Outstanding Contribution

EVENING RECEPTION

Mon, Oct 24 19:00-21:00

Food + Demos

ACROPOLIS MUSEUM

Tues, Oct 25 | 20:00-23:30



ACROPOLIS MUSEUM

Tues, Oct 25 | 20:00-23:30

The museum is ~2km away from Hotel Titania.

07:50PM Arrive at Acropolis Museum

08:00PM Guided tours begin

09:00PM Eat at Acropolis Café

11:30PM Close



ACROPOLIS MUSEUM

Tues, Oct 25 | 20:00-23:30

The museum is ~2km away from Hotel Titania.

07:15PM Group leaves from hotel (optional)

07:50PM Arrive at Acropolis Museum

08:00PM Guided tours begin

09:00PM Eat at Acropolis Café

11:30PM Close



TECHNICAL PROGRAM

General
Chair



Jon E. Froehlich
University of
Washington

Technical Program
Chairs



Kristen Shinohara
Rochester Institute
of Technology



Stephanie Ludi
University of
North Texas

Treasurer /
Registration Chair



Martez Mott
Microsoft Research

Hybrid Experience
Chair



Christian Vogler
Gallaudet University



Stephanie Ludi

FULL PAPERS

Accessible Blockly: A Library for!

Aboubakar Mountapmbeme
Department of Computer Science and
Engineering, University of North
Texas, Denton, Texas, USA
aboubakarmountapmbeme@my.unt.edu

ABSTRACT

In this experience report, we communicate their experiences with Access on Demand for Deaf and Hard-of-Hearing users. Roshan N. Patel, School of Informatics, Indiana University, Bloomington, Indiana, USA, rm1299@indiana.edu. The visual and mouse-centric nature of block environments generally make them inaccessible to use by people with visual impairments who are learning to interact with computers. This paper presents a prototype of an accessible programming library called Accessible Blockly that allows users to create and navigate block-based code using a keyboard. This is an attempt to make the library accessible through a screen reader and keyboard. We present the design and implementation of the library and discuss the evaluation of the library for blind users in a study with 12 blind programmers. The results show that Accessible Blockly effectively reads and understands block-based code. Accessible Blockly is easy to use and less error-prone than block-based programs. The participants also express interest in using the keyboard and screen reader to access the library.

CCS CONCEPTS

- Human-centered computing → Accessibility; Accessibility systems and tools; Accessible accessibility; Software and its engineering and management.

KEYWORDS

- Augmented Reality; Real-time; Mobile; Based on Augmented Reality; Students with Visual Impairments; Blockly

1 INTRODUCTION

There is a community of users who only use such individual



This work is licensed under a Creative Commons Attribution Non-Commercial-ShareAlike 4.0 International License.

ASSETS

© 2022

ACM

https://doi.org/10.1145/3517428.3544824

Blind Users Accessing Their Training Images in Teachable Object Recognizers

Jonggi Hong
Smith-Kettlewell Eye Research
Institute
San Francisco, United States
jhong@ski.org

Jaina Gandhi
University of Maryland, College Park
United States
jaina.gandhi@gmail.com

Ernest Essuah Mensah
University of Maryland, College Park
United States
eessuahm@umd.edu

Farnaz Zamiri Zeraati
University of Maryland, College Park
United States
farnaz@umd.edu

Ebrima Haddy Jarju
University of Maryland, College Park
United States
ejarju@terpmail.umd.edu

Kyungjun Lee
University of Maryland, College Park
United States
kjlee@cs.umd.edu

Hernisa Kacorri
University of Maryland, College Park
United States
hernisa@umd.edu



Figure 1: A blind participant in our study training the MYCam app in their homes to recognize Lays with real-time descriptors. A dual video conferencing captures participant's activities via a laptop camera and smart glasses worn by the participant.

ABSTRACT

Teachable object recognizers provide a solution for a very practical need for blind people – instance level object recognition. They assume one can visually inspect the photos they provide for training, a critical and inaccessible step for those who are blind. In this work, we engineer data descriptors that address this challenge. They indicate in real time whether the object in the photo is cropped or too small, a hand is included, the photos is blurred, and how much photos vary from each other. Our descriptors are built into open source testbed iOS app, called MYcam. In a remote user study in ($N = 12$) blind participants' homes, we show how descriptors, even when error-prone, support experimentation and have a positive

impact in the quality of training set that can translate to model performance though this gain is not uniform. Participants found the app simple to use indicating that they could effectively train it and that the descriptors were useful. However, many found the training being tedious, opening discussions around the need for balance between information, time, and cognitive load.

CCS CONCEPTS

- Human-centered computing → Accessibility; Ubiquitous and mobile computing; Empirical studies in HCI.

KEYWORDS

blind, visual impairment, object recognition, machine teaching, participatory machine learning

ACM Reference Format:

Jonggi Hong, Jaina Gandhi, Ernest Essuah Mensah, Farnaz Zamiri Zeraati, Ebrima Haddy Jarju, Kyungjun Lee, and Hernisa Kacorri. 2022. Blind Users Accessing Their Training Images in Teachable Object Recognizers. In *The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22), October 23–26, 2022, Athens, Greece*. ACM, New York, NY, USA, 18 pages. <https://doi.org/10.1145/3517428.3544824>

132 submissions

35 Acceptances

26.5% acceptance rate

DIVERSE CONTENT

AR, VR, and Games

Social Media
and Media

Accessibility in
Daily Living

Composition and
Music

Programming and
Design

Communication

Representation and Inclusion

Tactile and Haptics

Safety and
Transportation

Data for Modeling
and Recognition

OTHER TRACKS AND PROGRAM NOTES

7 Experience Reports

6 TACCESS Journal Paper Presentations

39 Posters and 4 Demos

17 Doctoral Consortium Participants

5 Workshops



Best Artifact Award Candidates

October 23-26, 2022

This year, we have 15 high-quality candidates for the Best Artifact Award. Please check the candidate artifacts and the corresponding submission papers and cast your vote by October 26, 2022.

[Link to the voting page \(for conference attendees only\).](#)

Vote Here

Please cast your vote considering the following criteria: artifact's potential to improve the quality of life for people with disabilities or older adults; artifact availability for the target user group; artifact's quality level and robustness.

List of the candidate artifacts:

Designing a Game for Pre-Screening Students with Specific Learning Disabilities in Chinese

BEST PAPER COMMITTEE



Anthony Hornof
U. of Oregon



Amy Hurst
U. of Oregon



Cynthia Putnam
DePaul



Sayan Sarcar
Birmingham City U.



Gerhard Weber
Technische U. Dresden

8 BEST PAPER NOMINEES: FIRST FOUR

- 1 Quantifying Touch: New Metrics for Characterizing What Happens During a Touch**
Junhan Kong, Mingyuan Zhong, James Fogarty, Jacob Wobbrock, University of Washington
- 2 Accessible Blockly: An Accessible Block-Based Programming Library for People with Visual Impairments**
Aboubakar Mountapmbeme, Obiamuju Okafor, Stephanie Ludi, University of North Texas
- 3 LaMPost: Design and Evaluation of an AI-assisted Email Writing Prototype for Adults w/ Dyslexia**
Steven Goodman¹, Andy Coenen², Aaron Donsbach², Tiffanie Home², Michael Lahav², Robert MacDonal², Rain Breaw Michaels², Agit Narayanan², Mahima Pushkama², Rachel Sweeney², Meredith Ringel Morris²
¹University of Washington; ²Google
- 4 A Collaborative Approach to Support Medication Management in Older Adults with Mild Cognitive Impairment Using Conversational Assistants (CAs)**
Niharika Mathur¹, Tamara Zubatiy¹, Jiachen Li¹, Brian Jones¹, Elizabeth Mynatt²
¹Georgia Tech; ²Northeastern University

8 BEST PAPER NOMINEES: NEXT FOUR

5

Blind Users Accessing Their Training Images in Teachable Object Recognizers

Jonggi Hong¹, Jaina Gandhi², Ernest Mensah², Famaz Zeraati², Ebrima Jarjue², Kyungjun Lee², Hernisa Kacorri²

¹Smith-Kettlewell Eye Research Institute; ²University of Maryland, College Park

6

AAC with Automated Vocabulary from Photographs: Insights from School and Speech-Language Therapy Settings

Mauricio Fontana de Vargas, Jiamin Dai, Karyn Moffatt, McGill University

7

Chronically Under-Addressed: Considerations for HCI Accessibility Practice w/Chronically Ill People

Kelly Mack, Emma McDonnell, Leah Findlater, Heather Evans, University of Washington

8

Support in the Moment: Benefits and use of video-span selection and search for sign-language video comprehension among ASL learners

Saad Hassan, Akhter Al Amin, Caluã de Lacerda Pataca, Diego Navarro, Alexis Gordon, Sooyeon Lee, Matt Huenerfauth, Rochester Institute of Technology

161



In-person

Synchronous

141



Virtual

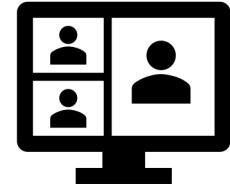
Asynchronous

TO BRING US TOGETHER



In-person

+



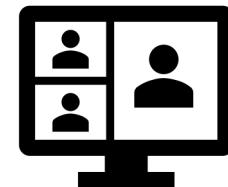
Virtual

TO BRING US TOGETHER

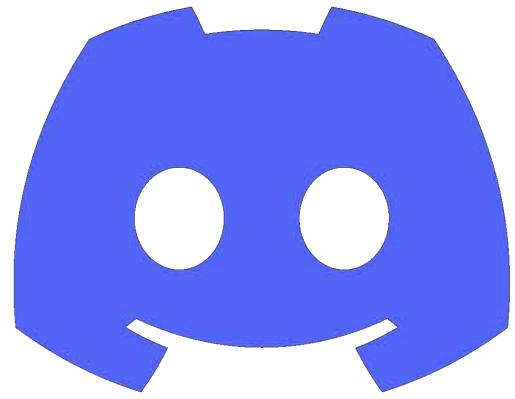


In-person

+



Virtual



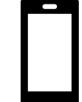
Discord



Web



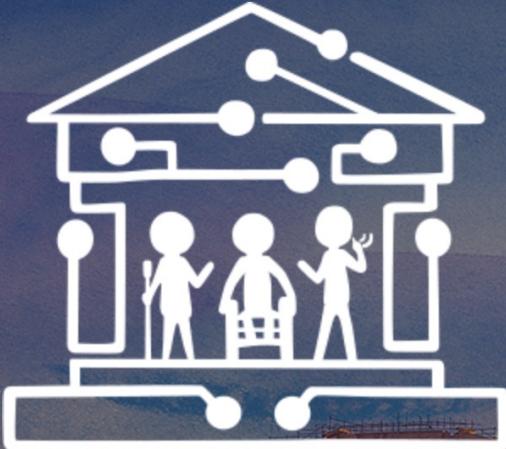
Mac/Windows



Android/iPhone

DISCORD LINK

<https://assets22.sigaccess.org/>



ASSETS 2022

The 24th International ACM SIGACCESS Conference on Computers and Accessibility

📍 Athens, Greece

📅 October 23-26, 2022

Oct 22, 2022 | Conference Launch!

It's go time! 🎉 Whether attending [in-person](#) or [virtually](#), we welcome you to ASSETS'22. 🙌

[Join us on Discord](#) to view conference content and interact with virtual and in-person attendees. Make sure to introduce yourself in the aptly named "[#introduce-yourself](#)" channel!

See the [Conference Program](#) for a schedule of events!

Welcome! 🎉

DISCORD LINK

<https://assets22.sigaccess.org/>

Oct 22, 2022 | Conference Launch!

It's go time! 🚀 Whether attending in-person or virtually, we welcome you to AS

Join us on Discord to view conference content and interact with virtual and in-person attendees! Come to introduce yourself in the aptly named "#introduce-yourself" channel!

See the Conference Program for a schedule of events!

Welcome! 🌟



ASSETS 2022

s1-ar-vr-and-games



Search



MONDAY



opening-session

keynote-haben-girma

posters-session1-mobil...

posters-session1-audit...

posters-session1-partic...

posters-session1-under...

posters-session1-docto...

posters-session1-stude...

s1-ar-vr-and-games



s2-representation-and...

s3-data-for-modeling-a...

demos

virtual-trivia

monday-hybrid-chat



TUESDAY

keynote-clayton-lewis

posters-session2-beyo...

posters-session2-acces...

posters-session2-educ...

posters-session2-travel...

posters-session2-social...

posters-session2-docto...

a4-composition-in-mus...

Welcome to #s1-ar-vr-and-games!

This is the start of the #s1-ar-vr-and-games **private** channel.

Add members or roles Edit Channel



Virtual Chairs

Organizing Committee

Student Volunteers

General Chair

Access Support Staff

Attendees

October 18, 2022



Filipa Rocha (she/her) 10/18/2022

[Experience Report] Access on Demand: Real-time, Multi-modal Accessibility for the Deaf and Hard-of-Hearing based on Augmented-Reality

Roshan Mathew: School of Information, Rochester Institute of Technology

Brian Mak: College of Liberal Arts, Rochester Institute of Technology

Wendy Dannels: NTID Center on Culture and Language, Rochester Institute of Technology

Video: <https://youtu.be/XXnJRQGFzA>

VRBubble: Enhancing Peripheral Awareness of Avatars for People with Visual Impairments in Social Virtual Reality

Tiger F. Ji, Brianna R Cochran, Yuhang Zhao: Department of Computer Sciences, University of Wisconsin-Madison

Video: <https://youtu.be/s8CHKdXgx9I>

"It's Just Part of Me": Understanding Avatar Diversity and Self-presentation of People with Disabilities in Social Virtual Reality

Kexin Zhang, Yuhang Zhao: University of Wisconsin-Madison

Elmira Deldari: UMBC, Baltimore County

Zhicong Lu: Department of Computer Science, City University of Hong Kong

Yaxing Yao: Department of Information Systems, University of Maryland Baltimore County

Video: <https://youtu.be/pgrVINHV27A>

SoundVizVR: Sound Indicators for Accessible Sounds in Virtual Reality for Deaf or Hard of Hearing Users

Ziming Li, Roshan L Peiris: School of Information, Rochester Institute of Technology, Rochester, New York, United States

Shannon Connell, Wendy Dannels: NTID Center on Access Technology, Rochester Institute of Technology, Rochester, New York, United States

Video: <https://youtu.be/XDG24n9uWsY>

Uncovering Visually Impaired Gamers' Preferences for Spatial Awareness Tools Within Video Games

Vishnu Nair, Shao-en Ma, Yicheng He, Karen Lin, Brian A. Smith: Columbia University, New York

ATTENDEES — 46



Abraham Glasser, PhD...



Aedan McCall



Aidan Bryant



Ajay Abraham



aleonidis

Andrew Begel
(he/him)

Annie Ross (she/her)



Ariadni Velissaropoulou



Ather Sharif (he/him)



Bineeth (he/him)



Christian Vogler (he/h...



Christina Karpodini



Elaine Czech (she/her)



Emma McDonnell (sh...



Eryn Kelsey Adkins



Felix Schmitt-Koopmann



Franklin Mingzhe Li



ASSETS 2022



s1-ar-vr-and-games



MONDAY



opening-session

keynote-haben-girma

posters-session1-mobil...

posters-session1-audit...

posters-session1-partic...

posters-session1-under...

posters-session1-docto...

posters-session1-stude...

s1-ar-vr-and-games

s2-representation-and-...

s3-data-for-modeling-a...

demos

virtual-trivia

monday-hybrid-chat

Welcome to #s1-ar-vr-and-games!

This is the start of the #s1-ar-vr-and-games **private** channel.

Add members or roles Edit Channel





ASSETS 2022



s1-ar-vr-and-games



MONDAY



opening-session

keynote-haben-girma

posters-session1-mobil...

posters-session1-audit...

posters-session1-partic...

posters-session1-under...

posters-session1-docto...

posters-session1-stude...

s1-ar-vr-and-games

s2-representation-and-...

Selected first session

monday-hybrid-chat

Welcome to #s1-ar-vr-and-games!

This is the start of the #s1-ar-vr-and-games **private** channel.

Download pre-recorded talks, ask questions, chat with the community!

October 18, 2022



Filipa Rocha (she/her) 10/18/2022

[Experience Report] Access on Demand: Real-time, Multi-modal Accessibility for the Deaf on Augmented-Reality

Roshan Mathew: School of Information, Rochester Institute of Technology

Brian Mak: College of Liberal Arts, Rochester Institute of Technology

Wendy Dannels: NTID Center on Culture and Language, Rochester Institute of Technology

Video: <https://youtu.be/XXnJRQGFzA>

VRBubble: Enhancing Peripheral Awareness of Avatars for People with Visual Impairment

Tiger F. Ji, Brianna R Cochran, Yuhang Zhao: Department of Computer Sciences, University of Wisconsin-Madison

Video: <https://youtu.be/s8CHKdXgx9I>

"It's Just Part of Me": Understanding Avatar Diversity and Self-presentation of People with Visual Impairment

Ass Support Staff

**EVERY PAPER, POSTER, DEMO, ETC. HAS A
CAPTIONED VIDEO POSTED TO DISCORD**



introduce-yourself-👤



Ricardo Gonzalez 🌱 Yesterday at 8:14 PM

Hello everyone!

Fun/helpful channels like:

- #athens
- #help-desk
- #selfie
- #general
- #introduce-yourself
- And more!



Leon (he/him) // PhD-CarletonU 🌱 Today at 12:38 AM

Hello!!

I'm Leon. I'm a 3rd year PhD student at Carleton University working with Dr Audrey Girouard. My research interests are around blind or low vision music learning. I'll be presenting at the DC. Super excited to attend in person and e...

general-👉

posters-💡

demos-📈

tips-and-tricks-💡

assets23-suggestions-...

accessibility-help-desk...

↳ Emergency Protocols

job-ads-

introduce-yourself-... 🧑‍🤝‍🧑

hybrid-bingo

Introduce
yourself in the
#introduce-
yourself channel

↳ Covid Information

athens

virtual_town_hall

disabilities. I mainly work with people with visual impairments.

If you would like to learn more about me, please visit my website:

<https://rgonzalezp.github.io/>

Looking forward to the conference and I hope everyone stays safe! (edited)

rgonzalezp.github.io

rgonzalezp.github.io

Ricardo Gonzalez personal homepage



6

October 22, 2022



Leon (he/him) // PhD-CarletonU 🌱 Today at 12:38 AM

Hello!!

I'm Leon. I'm a 3rd year PhD student at Carleton University working with Dr Audrey around blind or low vision music learning. I'll be presenting at the DC. Super excited

This is my first in person conference.

LinkedIn: <https://www.linkedin.com/in/leon-lu>

Twitter: @work_inprocess



ASSETS 2022

selfie

Take selfies—either virtually or in-person—and post them here! Don't forget to add alt txt! Once posted, fill out y...

the Hotel Titania today! 🏰 그리스



😅 7 😊 2

October 22, 2022

Selfies with old/new friends encouraged!

Post your selfies to the #selfie channel

hybrid-bingo

selfie



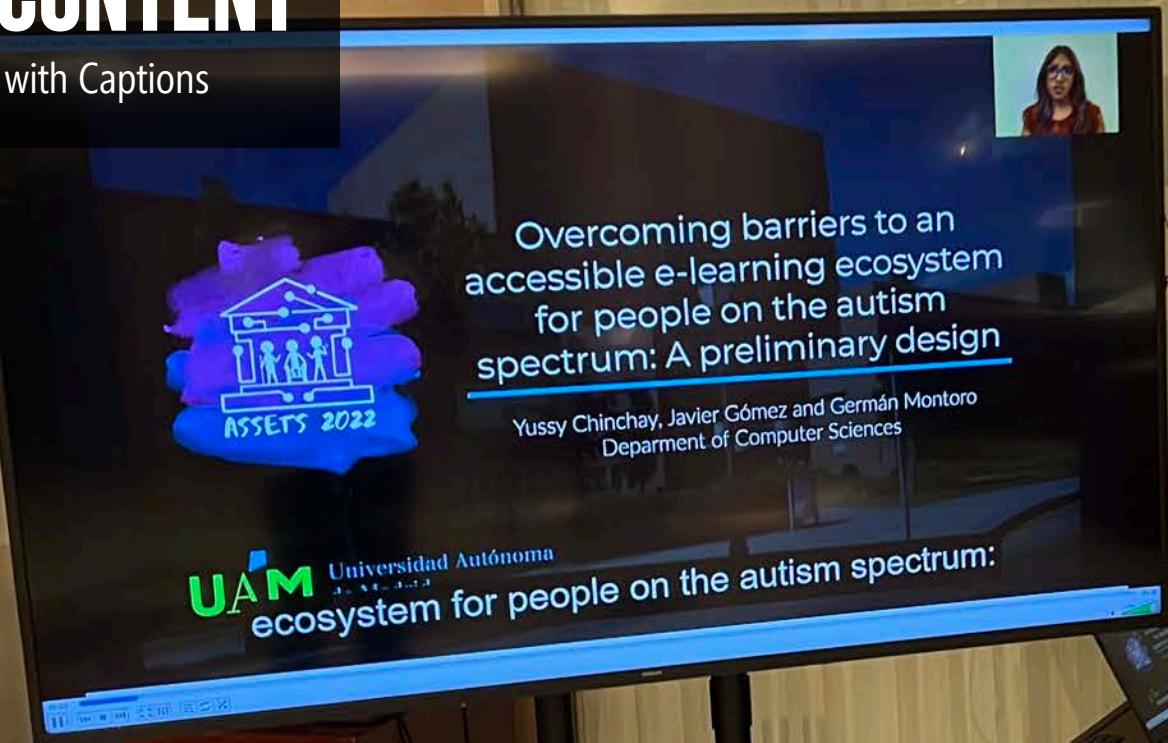
Christian Vogler (he/him) Yesterday at 1:20 PM

At Agia Marina church near Acropolis. This place has a huge personal meaning for me: my wife and I got married 1/2 years ago, and my twins were baptized there, too. (Alt: selfie of white man standing in front of a Greek Orthodox built in white and rose stucco, framed by pine trees against a brilliant blue sky)



VIRTUAL CONTENT

HDTVs Loop Videos with Captions



WIFI NAME: TITANIA
FREE WIFI
PASSWORD: titania



ASSETS 2022 Program at a Glance

Time	Sunday, Oct 23	<u>Monday, Oct 24</u>	<u>Tuesday, Oct 25</u>	<u>Wednesday, Oct 26</u>
Morning	Doctoral Consortium	<p>7:30 to 8:45 Breakfast and Registration Desk Opens</p> <p>8:45 to 9:15 Welcome</p> <p>9:15 to 10:15 Opening Keynote: Haben Girma</p> <p>10:15 to 11:00 Coffee Break and Poster Session 1</p> <p>11:00 to 12:26 Paper Session 1</p>	<p>1:00 to 3:00 Virtual Social Event - Trivia</p> <p>7:30 to 8:45 Breakfast and Virtual/ In-Person Crossover Event</p> <p>8:00 to 8:45 Registration Desk Opens</p> <p>8:45 to 9:00 Welcome by ACM President Yannis Ioannidis</p> <p>9:00 to 10:00 SIGACCESS Outstanding Contributions Keynote: Clayton Lewis</p> <p>10:00 to 10:45 Coffee Break and Poster Session 2</p> <p>10:45 to 12:00 Paper Session 4</p>	<p>2:00 to 4:00 Virtual Networking Roundtables</p> <p>7:30 to 9:00 Breakfast and Virtual/ In-Person Crossover Event</p> <p>8:30 to 9:00 Registration Desk Opens</p> <p>9:00 to 10:26 Paper Session 7</p> <p>10:30 to 11:15 Coffee Break</p> <p>11:15 to 12:30 Paper Session 8</p>

SETS 2022 Program at a Glance

<u>Monday, Oct 24</u>	<u>Tuesday, Oct 25</u>	<u>Wednesday, Oct 26</u>
7:30 to 8:45 Breakfast and Registration Desk Opens	1:00 to 3:00 Virtual Social Event - Trivia	2:00 to 4:00 Virtual Networking Roundtables
Crossover	7:30 to 8:45 Breakfast and Virtual/ In-Person Crossover Event	7:30 to 9:00 Breakfast and Virtual/ In-Person Crossover Event
8:45 to 9:15 Welcome	8:00 to 8:45 Registration Desk Opens	8:30 to 9:00 Registration Desk Opens
9:15 to 10:15 Opening Keynote: Haben Girma	8:45 to 9:00 Welcome by ACM President Yannis Ioannidis	9:00 to 10:26 Paper Session 7
10:15 to 11:00 Coffee Break and Poster Session 1		10:30 to 11:15 Coffee Break
11:00 to 12:26 Paper Session 1		

SETS 2022 Program at a Glance

Monday, Oct 24

7:30 to **Virtual only**

Registration Desk Opens

8:45 to 9:15 Welcome

9:15 to 10:15 Opening Keynote:
[Haben Girma](#)

10:15 to 11:00 Coffee Break and
[Poster Session 1](#)

11:00 to 12:26 [Paper Session 1](#)

Tuesday, Oct 25

1:00 to 3:00 [Virtual Social Event](#)
[- Trivia](#)

7:30 to 8:45 Breakfast and
[Virtual/ In-Person Crossover](#)
[Event](#)

8:00 to 8:45 Registration Desk
Opens

8:45 to 9:00 Welcome by ACM
President Yannis Ioannidis

Wednesday, Oct 26

2:00 to 4:00 [Virtual Networking](#)
[Roundtables](#)

7:30 to 9:00 Breakfast and
[Virtual/ In-Person Crossover](#)
[Event](#)

8:30 to 9:00 Registration Desk
Opens

9:00 to 10:26 [Paper Session 7](#)
10:30 to 11:15 Coffee Break

HYBRID/VIRTUAL CHAIRS



Christian Vogler
Gallaudet University



Emma McDonnell
UW



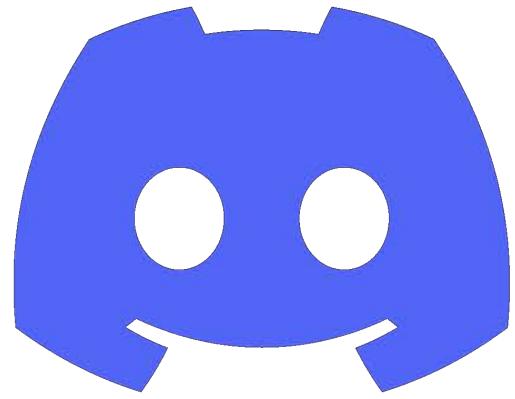
Laurianne Sitbon
Queensland U. of Tech



Kelly Mack
UW

ASSETS'22 CROSSOVER ACTIVITY

(5-10 minutes)



Discord



Web



Mac/Windows



Android/iPhone

B	I	N	G	O
Find someone who you share a common interest with you. What is their name & the common interest? [Your answer]	Find someone who prefers tea over coffee. What is their name and favorite kind of tea? [Your answer]	Find someone who is attending ASSETS (virtually or in Athens) for the first time. Who is it? [Your answer]	Find someone who works in industry, do they have any pets. Who and what pets? [Your answer]	Find someone who is a self-identified night owl. What is their name and what time do they go to bed? [Your answer]
Find a student who is not from your institution. What is their name and favorite snack food? [Your answer]	Find someone who is attending ASSETS in person for the first time. What is their name & affiliation? [Your answer]	Find a student volunteer. What is their name and favorite book? [Your answer]	Find someone you've never met who is attending ASSETS virtually on Discord. What is their name? [Your answer]	Find someone who likes to dance. What is their name and their favorite song to dance to? [Your answer]
Find a post doc, what is their favorite project that they've worked on? [Your answer]	Find someone who identifies as Gen Z. What is their name and ask if they have ever used a VCR? [Your answer]	Introduce yourself on the #introduce-yourself Discord channel 	Find a professor who is not from your institution, what is their name and favorite book and why? [Your answer]	Find someone on Discord that works in a similar research area to you. Who did you talk to and what area? [Your answer]
Find someone who likes the same band/artist as you. Who did you talk to and what is the artist? [Your answer]	Find someone who speaks two languages. List their name and languages. [Your answer]	Find someone who uses sign language. What is their name and affiliation? [Your answer]	Find someone on Discord who has the same birth month as you. Who is it and what month? [Your answer]	Find someone who has been to 3 or more continents. What is their name & where they go? [Your answer]
Find someone who speaks Greek. What is their name? [Your answer]	Find someone who has attended ASSETS 6+ times: who is it and how many times have they attended ASSETS? [Your answer]	Find someone who has gone on a run or worked out today, what is their name and how far did they run? [Hint: ask Bigham] [Your answer]	Take a selfie with someone at the conference and post it to the #selfie Discord channel with your names. [Your answer]	Find someone who is attending ASSETS from a different timezone than you. What is their name and where are they attending ASSETS? [Your answer]

From your institution. What is their name and favorite snack food? [Your answer]	attending ASSETS in person for the first time. What is their name & affiliation? [Your answer]	What is their name and favorite book? [Your answer]	never met who is attending ASSETS virtually on Discord. What is their name? [Your answer]	to dance. What is their name and their favorite song to dance to? [Your answer]
Find a post doc, what is their favorite project that they've worked on? [Your answer]	Find someone who identifies as Gen Z. What is their name and ask if they have ever used a VCR? [Your answer]	Introduce yourself on the <u>#introduce-yourself</u> <u>Discord channel</u> 	Find a professor who is not from your institution, what is their name and favorite book and why? [Your answer]	Find someone on Discord that works in a similar research area to you. Who did you talk to and what area? [Your answer]
Find someone who likes the same band/artist as you. Who did you talk to and what is the artist? [Your answer]	Find someone who speaks two languages. List their name and languages. [Your answer]	Find someone who uses sign language. What is their name and affiliation? [Your answer]	Find someone on Discord who has the same birth month as you. Who is it and what month? [Your answer]	Find someone who has been to 3 or more continents. What is their name & where'd they go? [Your answer]

ASSETS 2022

introduce-yourself-以人为中心

ASSETS 2022 LOUNGE

- # registration-desk-👋
- Friendly reminder to chan...
- # whats-happening-💡
- # general-👉
- # posters-📝
- # demos-📈
- # tips-and-tricks-💡
- # assets23-suggestions-...
- # accessibility-help-desk...
- Emergency Protocols
- # job-ads-💻
- # introduce-yourself-... 🧑‍🤝‍🧑
- # hybrid-bingo
- # selfie
- # help-desk
- # health-and-safety
- Covid Information
- # athens
- # virtual-town-hall
- # best-artifact-award

ASSETS 2022 LOGISTICS

- # current-live-ops-✨

Susanna Abler (she/her, USA) Today at 5:51 PM

Hello! My name is Susanna Abler, I am a recent graduate from the University of Maryland Baltimore County's undergraduate Individualized Studies program! My area of research focuses on how the aesthetics of assistive technology impact the psychological well being of the end user, more specifically in regards to the appearance of prosthetic limbs. I will be presenting a poster on my research into the process of designing custom limb covers for amputees in the first poster session!

This is my first conference so I am very excited to meet people and see everyone's work!

LinkedIn: <https://www.linkedin.com/in/susanna-abler-74930617b/>

John Alexis Guerra Gómez Today at 5:53 PM

Hi everyone! I'm John Alexis Guerra Gómez one of the equity and belonging co-chairs with the great LouAnne Boyd 🙌

Eryn Kelsey Adkins Today at 6:36 PM

Hello, hello! I'm Eryn (she/her), a master's student from Colorado School of Mines (USA). I'm researching accessibility in CS education and I am so excited to be here!

Aidan Bryant Today at 7:05 PM

hello! I'm Aidan (she/they), coming from San Francisco. I lead accessibility UXR at YouTube and am working on a degree in Disability Studies at Syracuse University. I'm excited to learn from everyone!

Earl Huff Jr (he/him) Today at 7:27 PM

Hello! I'm Earl Huff Jr, Assistant Professor in the School of Information at the University of Texas at Austin. Currently on route to Greece. I look forward to meeting all of you!

@Aidan Bryant hello! I'm Aidan (she/they), coming from San Francisco. I lead accessibility UXR at YouTube and am working on a degree i...

Earl Huff Jr (he/him) Today at 7:28 PM

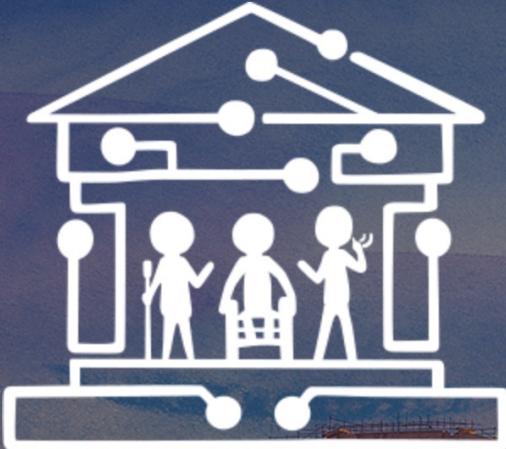
Hello Aidan! Good to meet you again. I look forward to seeing you in person soon

ATTENDEES — 20

- aleonidis
- Andrew Begel (he/him)
- Ather Sharif (he/him)
- Christian Vogler (he/him)
- David Gonçalves
- Humphrey
- Hyeonhak Jeong
- Jen Mankoff (she/her, ...)
- jonfroehlich (he/him)
- Kelly Mack (she/her) 🌟
- Maryam (she/her)
- Mauricio Fontana de V...
- Md Javedul Ferdous
- Mina Huh
- Olivia Wang (she/they)
- Roshan Mathew (He/...)
- Sam Rebelsky

DISCORD LINK

<https://assets22.sigaccess.org/>



ASSETS 2022

The 24th International ACM SIGACCESS Conference on Computers and Accessibility

📍 Athens, Greece

📅 October 23-26, 2022

Oct 22, 2022 | Conference Launch!

It's go time! 🎉 Whether attending [in-person](#) or [virtually](#), we welcome you to ASSETS'22. 🙌

[Join us on Discord](#) to view conference content and interact with virtual and in-person attendees. Make sure to introduce yourself in the aptly named "[#introduce-yourself](#)" channel!

See the [Conference Program](#) for a schedule of events!

DISCORD LINK

<https://assets22.sigaccess.org/>

Oct 22, 2022 | Conference Launch!

It's go time! 🚀 Whether attending in-person or virtually, we welcome you to AS

Join us on Discord to view conference content and interact with virtual and in-person attendees! Come to introduce yourself in the aptly named "#introduce-yourself" channel!

See the Conference Program for a schedule of events!

Welcome! 🌟

TRY THESE ONE OF THESE THREE

~10 min activity!

Introduce yourself on the
[#introduce-yourself](#)
[Discord channel](#)



Take a selfie with
someone at the
conference and post it to
the [#selfie](#) [Discord](#)
[channel](#). Remember to
add alt text.

Find someone who is
attending ASSETS in
person for the first time.
What is their name &
affiliation?

B	I	N	G	O
<p>Find someone who you share a common interest with you. What is their name & the common interest?</p> <p>[Your answer]</p>	<p>Find someone who prefers tea over coffee. What is their name and favorite kind of tea?</p> <p>[Your answer]</p>	<p>Find someone who is attending ASSETS (virtually or in Athens) for the first time. Who is it?</p> <p>[Your answer]</p>	<p>Find someone who works in industry, do they have any pets. Who and what pets?</p> <p>[Your answer]</p>	<p>Find someone who is a self-identified night owl. What is their name and what time do they go to bed?</p> <p>[Your answer]</p>
<p>Find a student who is not from your institution. What is their name and favorite snack food?</p> <p>[Your answer]</p>	<p>Find someone who is attending ASSETS in person for the first time. What is their name & affiliation?</p> <p>Ariadni and Paraskevi</p>	<p>Find a student volunteer. What is their name and favorite book?</p> <p>[Your answer]</p>	<p>Find someone you've never met who is attending ASSETS virtually on Discord. What is their name?</p> <p>[Your answer]</p>	<p>Find someone who likes to dance. What is their name and their favorite song to dance to?</p> <p>[Your answer]</p>
<p>Find a post doc, what is their favorite project that they've worked on?</p> <p>[Your answer]</p>	<p>Find someone who identifies as Gen Z. What is their name and ask if they have ever used a VCR?</p> <p>[Your answer]</p>	<p><u>Introduce yourself on the #introduce-yourself Discord channel</u></p> <p>I introduced myself 10/21</p>	<p>Find a professor who is not from your institution, what is their name and favorite book and why?</p> <p>[Your answer]</p>	<p>Find someone on Discord that works in a similar research area to you. Who did you talk to and what area?</p> <p>[Your answer]</p>
<p>Find someone who likes the same band/artist as you. Who did you talk to and what is the artist?</p> <p>[Your answer]</p>	<p>Find someone who speaks two languages. List their name and languages.</p> <p>[Your answer]</p>	<p>Find someone who uses sign language. What is their name and affiliation?</p> <p>[Your answer]</p>	<p>Find someone on Discord who has the same birth month as you. Who is it and what month?</p> <p>[Your answer]</p>	<p>Find someone who has been to 3 or more continents. What is their name & where did they go?</p> <p>[Your answer]</p>
<p>Find someone who speaks Greek. What is their name?</p> <p>[Your answer]</p>	<p>Find someone who has attended ASSETS 6+ times: who is it and how many times have they attended ASSETS?</p> <p>[Your answer]</p>	<p>Find someone who has gone on a run or worked out today, what is their name and how far did they run? [Hint: ask Bigham]</p> <p>[Your answer]</p>	<p></p> <p>Take a selfie with someone</p> <p>jmfroehlich (he/him) 10/20/2022 Dr. Martinez Mott (our amazing Registration Chair and Treasurer Seattle. A selfie of us both in the Hotel Titania lobby!)</p>	<p>Find someone who is attending ASSETS from a different timezone than you. What is their name and where are they attending ASSETS?</p> <p>[Your answer]</p>



PAUL G. ALLEN SCHOOL
OF COMPUTER SCIENCE & ENGINEERING

MOIRIA

**WHAT DOES IT TAKE TO PLAN
AND EXECUTE ASSETS'22?**

PEOPLE!

49

15
Countries



Organizing Committee

73



Program Committee

50



Student Volunteers

10 in-person | 40 virtual

OPENING PLENARY

SIGACCESS STEERING COMMITTEE



ACCESS
Special Interest Group on Accessible Computing

2022



Matt Huenerfauth
SIGACCESS Chair, RIT



Jeff Bigham
CMU



Tiago Guerreiro
U. de Lisboa



Jonathan Lazar
UMD



Kathleen McCoy
U. of Delaware



Karyn Moffatt
McGill Univ.

OPENING PLENARY

SIGACCESS STEERING COMMITTEE



ACCESS
Special Interest Group on Accessible Computing

2021



Shari Trewin
SIGACCESS Chair, Google



Jeff Bigham
CMU



Jinjuan Feng
Towson Univ.



Tiago Guerreiro
U. de Lisboa



Faustina Hwang
U. of Reading



Jonathan Lazar
UMD

2022



Matt Huenerfauth
SIGACCESS Chair, RIT



Jeff Bigham
CMU



Tiago Guerreiro
U. de Lisboa



Jonathan Lazar
UMD



Kathleen McCoy
U. of Delaware



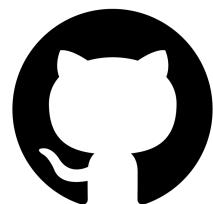
Karyn Moffatt
McGill Univ.

11,869



slack messages

541



GitHub Commits

ASSETS'22 Website

2,362



ASSETS'22 Emails

Since Dec 1, 2020

17

Sponsors

SPONSORS

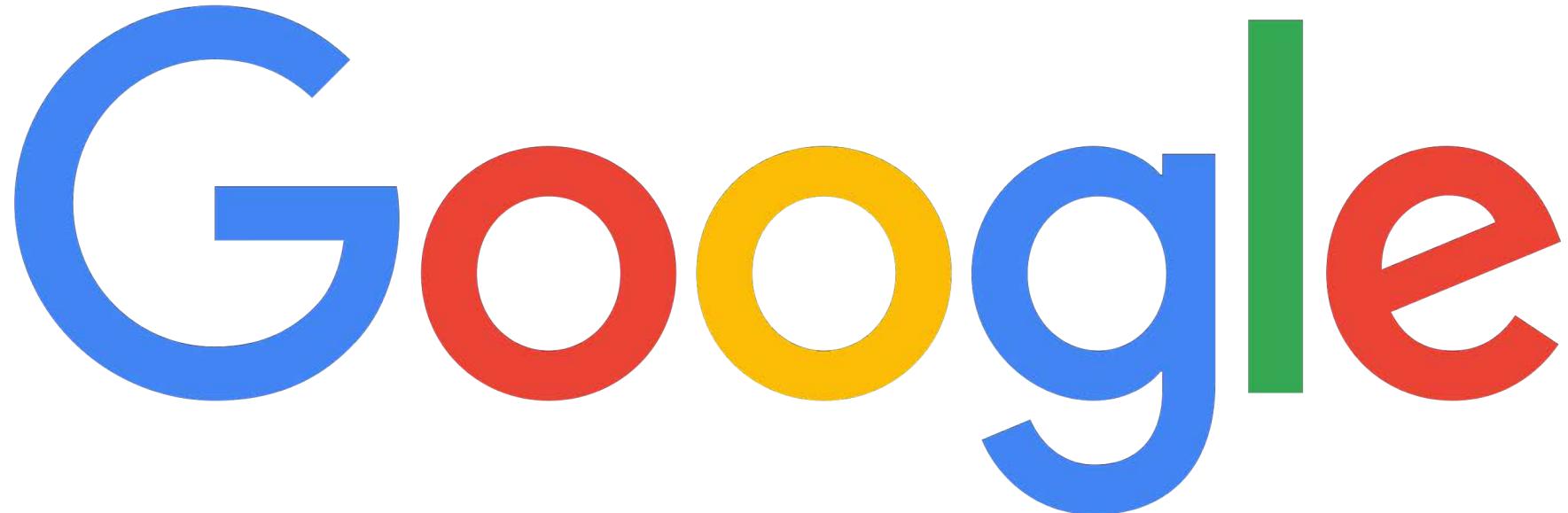
CHAMPION SPONSORS



Fable

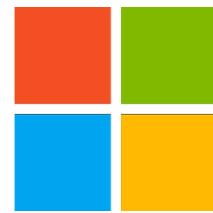
SPONSORS

CHAMPION SPONSORS

The Google logo is displayed in its signature multi-colored font. The letters are bold and rounded. The colors used are blue for 'G', red for 'oo', yellow for 'g', blue for 'g', red for 'e', and green for the vertical stem of the letter 'l'.

SPONSORS

GOLD SPONSORS



Microsoft



∞ Meta



UNIVERSITY *of* WASHINGTON

amazon

ASSETS 2022

google-🌐

SPONSOR BOOTHS

- # fable-💻
- # google-🌐
- # apple-📱
- # meta-👤
- # adobe-💻
- # create-🎨
- # amazon-📦
- # microsoft-💻

WORKSHOPS

- # future-of-urban-access...
- # disability-inclusive-rem...
- # including-accessibility-i...
- # grand-challenge-acces...
- # designing-with-and-for...
- # disability-inclusive-rem...

MONDAY

- # opening-session
- # keynote-haben-girma
- # posters-session1-mobil...
- # posters-session1-audit...
- # posters-session1-partic...
- # posters-session1-under...

ATTENDEES — 45

- Abraham Glasser, PhD...
- Aedan McCall
- Aidan Bryant
- Ajay Abraham
- aleonidis
- Andrew Begel (he/him)
- Annie Ross (she/her)
- Ather Sharif (he/him)
- Bineeth (he/him)
- Christian Vogler (he/h...
- Connor Geddes
- Emma McDonnell (sh...
- Eryn Kelsey Adkins
- Felix Schmitt-Koopmann
- Franklin Mingzhe Li
- Gabriele Galimberti
- Hernisa Kacorri (she/...

#

Welcome to #google-🌐!

This is the start of the #google-🌐 channel.

Edit Channel



ASSETS 2022



google-



▼ SPONSOR BOOTHS



fable-

google-



apple-

meta-

adobe-

create-

amazon-

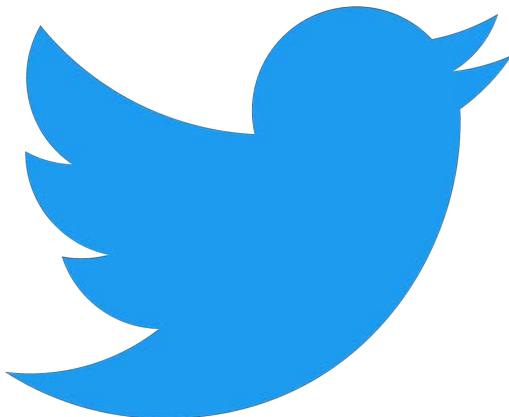
microsoft-

Chat with
Champion/Gold
sponsors on their
Discord channels!

WORKSHOPS

SPONSORS

SILVER SPONSORS



SPONSORS

BRONZE LEVEL



THE NATIONAL MUSEUM OF EMERGING
SCIENCE AND INNOVATION

studiodpacifica

SPONSORS

OTHER SPONSORS

Doctoral Consortium



Free Service to ASSETS'22
Participants in Athens



SOME CONCLUDING WORDS

CODE OF CONDUCT

Exercise consideration and respect in your speech and actions

Refrain from demeaning, discriminatory, or harassing behavior and speech

Be mindful of your surroundings and of your fellow participants

Alert assets22-leadership@acm.org if you notice a dangerous situation, someone in distress, or violations of this policy, even if they seem inconsequential.



Conference Code of Conduct

October 23-26, 2022

Policy Against Harassment at ACM Activities

The open exchange of ideas is central to the Association for Computing Machinery's mission. This requires an environment that embraces diversity and provides a safe, welcoming environment for all.

This policy applies to all ACM activities, including:

- Conferences, symposia, workshops, and events sponsored, co-sponsored, or in cooperation with ACM any ACM SIG or Chapter or any other ACM subunit;
- ACM member meetings;
- Exchanges among committees or other bodies associated with ACM activities publications and communications sent through communication channels associated with ACM, including social media.

Expected Behavior

We expect all participants in ACM activities to abide by this policy in all venues, including ancillary events and unofficial social gatherings:

- Exercise consideration and respect in your speech and actions;
- Refrain from demeaning, discriminatory, or harassing behavior and speech;
- Be mindful of your surroundings and of your fellow participants;
- Alert community leaders if you notice a dangerous situation, someone in distress, or violations of this policy, even if they seem inconsequential.

COVID SAFETY

On This Page

Accommodations
<https://bit.ly/ASSETS22-COVID>

Off-site Reception on

Tues, Oct 25th

Poster Printing

COVID Information and Safety Plan

More about Masking

Visa Support Letter

COVID Information and Safety Plan

For official information related to COVID and travel, please see the [Greek government's official website](#) and the [Athens airport travel page](#). The Greek National Tourism Organization launched the Visit Greece app ([Google Play](#), [App Store](#)), which includes detailed COVID-19 travel updates, as well as a map of COVID-19 diagnostic testing locations. The number for emergency assistance is 166.

- **Before the conference**, we ask that you conduct a COVID test (either PCR or antigen) within three days of Oct 23 and kindly ask that you not travel if the test is positive or if you feel sick.
- **En route to the conference**. While many airlines and rail transport no longer require masking, we ask that you use a high-filtration, closely fitting mask such as a N95, FFP2, KF94, or KN95 while traveling to the conference, including on all public transportation (which is currently mandatory in Greece).
- **Vaccination status**. We require that all on-site attendees have proof of full vaccination or a legitimate medical or religious exemption. Note that as of May 1, 2022, the Greek government no longer requires proof of vaccination to travel to the country.
- **Masking**. We will be requiring masks at all conference events. We strongly encourage a well-fitting, high filtration mask such as a N95, KF94, FFP2, or KN95 mask (see this [NYTimes article](#)). We are working to provide a backup stock at the conference; however, please bring enough supply for yourself so you can wear a fresh mask each day. As of June 1, 2022, Greece no longer requires masking indoors; however, masks are still required on public transit and in healthcare facilities ([source](#)).
- **Eating/drinking**. Traditionally, ASSETS provides food/drink during conference breaks, for lunch, and during social events. We are working with the hotel and our social event venues to determine takeaway options for attendees to eat outside if they prefer. For this, we suggest bringing a washable (e.g., rubbermaid, pyrex) or disposable container as we cannot guarantee that our food providers will have "togo" boxes.
- **Feeling sick?** If you feel sick during the conference, please send an email to conferencestaff@acm.org, take a rapid antigen test, and stay in your hotel room. When in doubt, take steps to minimize contact with others. Please bring some rapid tests with you to the conference; we will have a small number of backups.
- **Reporting**. All attendees at ASSETS agree to self-monitor for signs and symptoms of COVID and to contact ACM's official reporting contact conferencestaff@acm.org if you test positive for COVID within 10 days after participating.

MASKS ARE REQUIRED AT ALL ASSETS EVENTS



Wear a high-filtration mask
N95, KF94, FFP2, or KN95



Or a clear mask:
BendShape ClearMasks

COVID PROTOCOL

If you feel sick during the conference, email conferencestaff@acm.org, take a rapid antigen test, and stay in your hotel room.

We have **40 antigen tests**

If you test positive within 10 days of ASSETS, report result to:

conferencestaff@acm.org



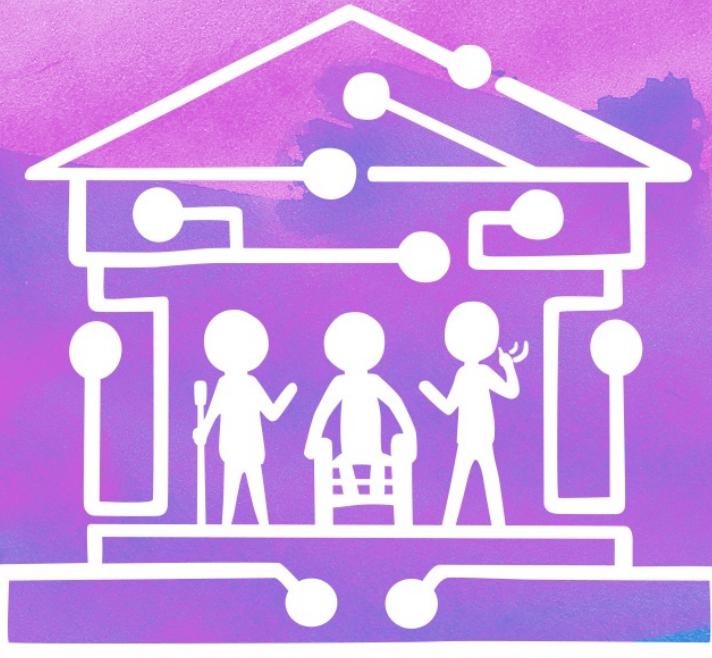
QUIET ROOM: ROOM 102

If you need space to yourself

There is a bathroom

You can get a key from an SV





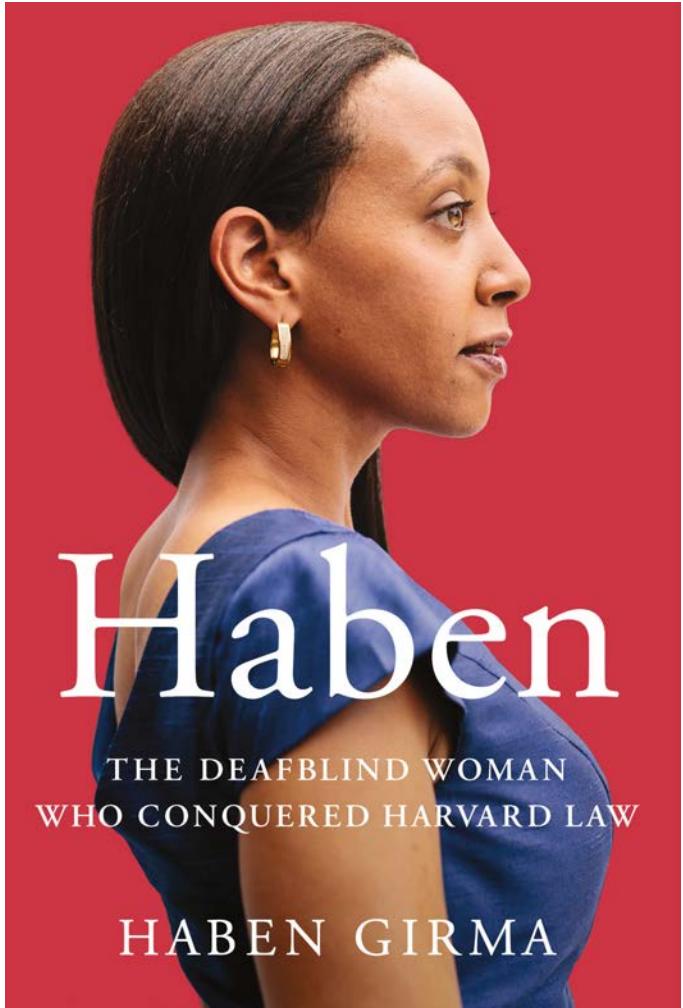
ASSETS 2022

The 24th International ACM SIGACCESS
Conference on Computers and Accessibility

📍 Athens, Greece

📅 Oct 23-26

KEYNOTE SPEAKER: HABEN GIRMA



The first Deafblind person to graduate from Harvard Law School, Haben Girma is a **human rights lawyer advancing disability justice**.

President Obama named her a **White House Champion of Change**. She's also received recognition from President Bill Clinton, Prime Minister Justin Trudeau, & Chancellor Angela Merkel.

She received the **Helen Keller Achievement Award**, a spot on the Forbes 30 Under 30 list, and TIME100 Talks

After her talk, Haben has asked questioners to join her on stage if they are comfortable. And she will be in the dining space across the hall for a meet-and-greet afterwards.