



CHI 2021

Organizing Committee

Doctoral Consortium Chairs: Yang Li

Panel Chairs: Dan Russell

Global Communities, Diversity and Inclusion Chairs: Nitesh Goyal

CHI Ambassador: Shumin Zhai

Associate Chairs: Alexander De Luca, Lauren Wilcox, Manya Sleeper, Mia Suh, Nithya Sambasivan, Peggy Chi, Ruofei Du, Shumin Zhai, Tesh Goyal

Google Awards

***ACM SIGCHI Awards:**

ACM SIGCHI Academy: [Google Inductees 2020 - 2021](#)

2021: **Allison Woodruff** (Senior Staff UX Researcher), **Fernanda Viegas** (Principal Scientist)

2020: **Meredith Ringel Morris** (Director - Principal Scientist, joined Google March 2021), **Sunny Consolvo** (Senior Staff UX Researcher)

***Best Paper Award:**

RadarNet: Efficient Gesture Recognition Technique Utilizing a Miniaturized Radar Sensor

Authors: **Eiji Hayashi**, **Jaime Lien**, **Nicholas Gillian**, **Leonardo Giusti**, **Dave Weber**, **Jin Yamanaka**, **Lauren Bedal**, **Ivan Poupyrev**

Google Speakers: **Eiji Hayashi**, **Jaime Lien**, **Nicholas Gillian**, **Leonardo Giusti**, **Dave Weber**, **Jin Yamanaka**, **Lauren Bedal**, **Ivan Poupyrev**

Paper Room 10: Wed, May 12 08:00 - 10:00 JST

Paper Room 10: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

***Best Paper Award:**

"Everyone wants to do the model work, not the data work": Data Cascades in High-Stakes AI

Authors: **Nithya Sambasivan**, **Shivani Kapania**, **Hannah Highfill**, **Diana Akrong**, **Praveen Paritosh**, **Lora Aroyo**

Google Speakers: **Nithya Sambasivan**, **Shivani Kapania**, **Hannah Highfill**, **Diana Akrong**, **Praveen Paritosh**, **Lora Aroyo**

Paper Room 13: Mon, May 10 08:00 - 10:00 JST

Paper Room 13: Tue, May 11 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Authors with Google affiliation in **bold**

*Work done while at Google

***Honorable Mention:**

SonicHoop: Using Interactive Sonification to Support Aerial Hoop Practices

Authors: Wanyu Liu, **Artem Dementyev**, Diemo Schwarz, Emmanuel Flety, Wendy Mackay, Michel Beaudouin-Lafon, Frédéric Bevilacqua

Google Speakers: **Artem Dementyev**

Paper Room 10: Tue, May 11 16:00 - 18:00 JST

Paper Room 10: Wed, May 12 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

***Honorable Mention:**

AI as Social Glue: Uncovering the Roles of Deep Generative AI during Social Music Composition

Authors: **Minhyang (Mia) Suh**, **Emily Youngblom**, **Michael Terry**, **Carrie J Cai**

Google Speakers: **Carrie J Cai**, **Emily Youngblom**, **Michael Terry**, **Minhyang (Mia) Suh**

Paper Room 02: Wed, May 12 08:00 - 10:00 JST

Paper Room 02: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

***Best Case Study:**

Onboarding Materials as Cross-functional Boundary Objects for Developing AI Assistants

Authors: **Carrie Jun Cai**, **Dave Steiner**, **Lauren Wilcox**, **Michael Terry**, **Samantha Winter**

Google Speakers: **Carrie Jun Cai**, **Dave Steiner**, **Lauren Wilcox**, **Michael Terry**, **Samantha Winter**

Case Studies Room: Wed, May 12 08:00 - 10:00 JST

Case Studies Room: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Google Sponsored Workshops

Let's Talk About CUIs: Putting Conversational User Interface Design Into Practice

Google Organizers: **Andrew Ku**

Workshop Room: Sat, May 8 22:00 - 02:00 +1 JST

[Link to Workshop Website](#); [Link to Session](#)

Realizing AI in Healthcare: Challenges Appearing in the Wild

Google Organizers: **Lauren Wilcox**

Workshop Room: Sat, May 8 22:00 - 02:00 +1 JST

Workshop Room: Sun, May 9 22:00 - 02:00 +1 JST

[Link to Workshop Website](#); [Link to Session](#)

EduCHI 2021: 3rd Annual Symposium on HCI Education

Google Organizers: **Elizabeth Churchill**

Workshop Room: Sat, May 15 22:00 - 02:00 +1 JST

[Link to Workshop Website](#); [Link to Session](#)

["Everyone wants to do the model work, not the data work": Data Cascades in High-Stakes AI](#)

Authors: **Nithya Sambasivan, Shivani Kapania, Hannah Highfill, Diana Akrong, Praveen Paritosh, Lora Aroyo**

Google Speakers: **Nithya Sambasivan, Shivani Kapania, Hannah Highfill, Diana Akrong, Praveen Paritosh, Lora Aroyo**

Paper Room 13: Mon, May 10 08:00 - 10:00 JST

Paper Room 13: Tue, May 11 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

[TapNet: The Design, Training, Implementation, and Applications of a Multi-Task Learning CNN for Off-Screen Mobile Input](#)

Authors: **Michael Xuelin Huang, Yang Li, Nazneen Nazneen, Alexander Chao, Shumin Zhai**

Google Speakers: **Michael Xuelin Huang, Yang Li, Nazneen Nazneen, Alexander Chao, Shumin Zhai**

Paper Room 02: Mon, May 10 08:00 - 10:00 JST

Paper Room 02: Tue, May 11 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

[Spacewalker: Rapid UI Design Exploration Using Lightweight Markup Enhancement and Crowd Genetic Programming](#)

Authors: Mingyuan Zhong*, **Gang Li, Yang Li**

Google Speakers: **Gang Li, Yang Li**

Paper Room 05: Mon, May 10 08:00 - 10:00 JST

Paper Room 05: Mon, May 10 16:00 - 18:00 JST

[Link to Paper](#); [Link to Session](#)

[SonicHoop: Using Interactive Sonification to Support Aerial Hoop Practices](#)

Authors: Wanyu Liu, **Artem Dementyev**, Diemo Schwarz, Emmanuel Flety, Wendy Mackay, Michel Beaudouin-Lafon, Frédéric Bevilacqua

Google Speakers: **Artem Dementyev**

Paper Room 10: Tue, May 11 16:00 - 18:00 JST

Paper Room 10: Wed, May 12 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

[Breakdowns and Breakthroughs: Observing Musicians' Responses to the COVID-19 Pandemic](#)

Authors: **Carrie J Cai, Michelle Carney, Nida Zada, Michael Terry**

Google Speakers: **Carrie J Cai, Michael Terry, Michelle Carney, Nida Zada**

Paper Room 13: Tue, May 11 16:00 - 18:00 JST

Paper Room 13: Wed, May 12 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

[RadarNet: Efficient Gesture Recognition Technique Utilizing a Miniaturized Radar Sensor](#)

Authors: **Eiji Hayashi, Jaime Lien, Nicholas Gillian, Leonardo Giusti, Dave Weber, Jin Yamanaka, Lauren Bedal, Ivan Poupyrev**

Google Speakers: **Eiji Hayashi, Jaime Lien, Nicholas Gillian, Leonardo Giusti, Dave Weber, Jin Yamanaka, Lauren Bedal, Ivan Poupyrev**

Paper Room 10: Wed, May 12 08:00 - 10:00 JST

Paper Room 10: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

AI as Social Glue: Uncovering the Roles of Deep Generative AI during Social Music Composition

Authors: **Minhyang (Mia) Suh**, Emily Youngblom, Michael Terry, Carrie J Cai

Google Speakers: **Carrie J Cai**, Emily Youngblom, Michael Terry, Minhyang (Mia) Suh

Paper Room 02: Wed, May 12 08:00 - 10:00 JST

Paper Room 02: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Isolation in coordination: challenges of informal caregivers in the USA

Authors: **Mark William Schurgin**, Mark Schlager, Laura M Vardoulakis, Laura Pina, Lauren Wilcox

Google Speakers: **Mark William Schurgin**, Mark Schlager, Laura M Vardoulakis, Laura Pina, Lauren Wilcox

Paper Room 07: Wed, May 12 08:00 - 10:00 JST

Paper Room 07: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Automatic Generation of Two Level Hierarchical Tutorials from Instructional Makeup Videos

Authors: Anh Truong*, **Peggy Chi**, David Salesin, Irfan Essa, Maneesh Agrawala*

Google Speakers: **David Salesin**, **Peggy Chi**

Paper Room 05: Thu, May 13 08:00 - 10:00 JST

Paper Room 05: Fri, May 14 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

PhraseFlow: Designs and Empirical Studies of Phrase-Level Input

Authors: Mingrui "Ray" Zhang, **Shumin Zhai**

Google Speakers: **Shumin Zhai**

Paper Room 08: Thu, May 13 08:00 - 10:00 JST

Paper Room 08: Fri, May 14 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

"It's Just Everything Outside of the IDE that's the Problem": Information Seeking by Software Developers with Visual Impairments

Authors: Kevin Mark Storer*, **Harini Sampath**, Alice Merrick

Google Speakers: **Harini Sampath**, **Alice Merrick**

Paper Room 01: Thu, May 13 08:00 - 10:00 JST

Paper Room 01: Fri, May 14 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Accessibility of Command Line Interfaces

Authors: **Harini Sampath**, **Alice Merrick**, Andrew Macvean

Google Speakers: **Harini Sampath**, **Alice Merrick**, Andrew Macvean

Paper Room 01: Thu, May 13 08:00 - 10:00 JST

Paper Room 01: Fri, May 14 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Panels

Videoconferencing in the Age of COVID: How Well Has It Worked Out?

Authors: **Daniel Russell**

Google Speakers: **Daniel Russell**

Panel Room: Wed, May 12 02:00 - 04:00 JST

[Link to Session](#)

CHI Interactivity

Hidden Interfaces for Ambient Computing: Interacting with High-brightness Visuals through Everyday Materials

Authors: **Alex Olwal**, **Artem Dementyev**

Google Speakers: **Alex Olwal**, **Artem Dementyev**

Interactivity Room: Mon, May 10 10:00 - 12:00 JST

Interactivity Room: Tue, May 11 02:00 - 04:00 JST

[Link to Paper/Video](#); [Link to Session](#)

Mobile, Hands-free, Silent Speech Texting Using SilentSpeller

Authors: Naoki Kimura, Tan Gemicioglu, Richard Li, Yuhui Zhao, Abdelkareem Bedri, **Alex Olwal**, Jun Rekimoto, Thad Starner

Google Speakers: **Alex Olwal**

Interactivity Room: Tue, May 11 10:00 - 12:00 JST

Interactivity Room: Tue, May 11 18:00 - 20:00 JST

[Link to Paper/Video](#); [Link to Session](#)

Case Studies

Onboarding Materials as Cross-functional Boundary Objects for Developing AI Assistants

Authors: **Carrie Jun Cai**, **Dave Steiner**, **Lauren Wilcox**, **Michael Terry**, **Samantha Winter**

Google Speakers: **Carrie Jun Cai**, **Dave Steiner**, **Lauren Wilcox**, **Michael Terry**, **Samantha Winter**

Case Studies Room: Wed, May 12 08:00 - 10:00 JST

Case Studies Room: Thu, May 13 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)

Journals

Countdown Timer Speed: A Trade-off between Delay Duration Perception and Recall

Authors: Moojan Ghafurian, **David Reitter**, Frank E. Ritter

Google Speakers: **David Reitter**

Journal Room: Mon, May 10 08:00 - 10:00 JST

Journal Room: Tue, May 11 00:00 - 02:00 JST

[Link to Paper](#); [Link to Session](#)



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