Ryo Suzuki   Curricumlum Vitae

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Research Interest

I am an Assistant Professor in the Department of Computer Science at the University of Calgary. My research primarily focuses on the intersection of **human-computer interaction** and **robotics**. My research aims to *seamlessly blend the virtual and physical worlds*, by leveraging augmented reality, tangible user interfaces, robotics, and shape-changing technologies.

Keywords: AR x AI, tangible interfaces, human-robot interaction, augmented environment

Employment

01/2021 – current **University of Calgary**
Assistant Professor, Department of Computer Science
Human-Computer Interaction Group (Interactions Lab)
Director of Programmable Reality Lab

07/2023 – current **Google**
Visiting Researcher
Blended Interaction Research and Devices Lab (BIRD Lab)

10/2023 – current **The University of Tokyo**
Visiting Professor
Research Center for Advanced Science and Technology

05/2020 – 08/2020 **Microsoft Research, Redmond**
Research Intern in EPIC Group
with Mar Gonzalez-Franco, Eyal Ofek, Mike Sinclair

08/2015 – 05/2020 **University of Colorado Boulder**
Research Assistant in Department of Computer Science and ATLAS Institute
with Daniel Leithinger, Mark D. Gross, Tom Yeh

05/2019 – 08/2019 **Adobe Research, Seattle**
Research Intern in Creative Intelligence Lab
with Rubaiat Habib, Li-Yi Wei, Stephen DiVerdi, Wilmot Li

12/2017 – 10/2018 **University of Tokyo**
Research Intern in JST ERATO
with Yasuaki Kakehi, Yoshihiro Kawahara, Ryuma Niiyama

05/2016 – 08/2016 **UC Berkeley**
Research Intern in BiD Group
with Bjoern Hartmann, Gustavo Soares, Elena Glassman

05/2015 –	**Stanford University**
08/2015	Research Intern in HCI Group
	with Michael Bernstein

09/2014 –	**University of Tokyo**
05/2015	Research Assistant in IIS Lab
	with Koji Yatani

01/2015 –	**AIST, Tsukuba**
03/2015	Research Intern in Media Interaction Group
	with Jun Kato, Masataka Goto

Education

| 08/2015 – | **University of Colorado Boulder** |
| 12/2020 | Ph.D. candidate in Human-Computer Interaction, Department of Computer Science |

PhD Dissertation: Dynamic Shape Construction and Transformation with Collective Elements
Committee: Daniel Leithinger, Mark D. Gross, Hiroshi Ishii, Takeo Igarashi, Tom Yeh

| 04/2011 – | **University of Tokyo** |
| 03/2013 | M.A. in Computational Game Theory, Department of Economics |

Thesis: Diffusion Process and Take-off Conditions of Online Platforms
Advisor: Michihiro Kandori

| 04/2007 – | **Tokyo Institute of Technology** |
| 03/2011 | B.Eng in Information and Social Science, School of Engineering |

Peer-Reviewed Conference Publications

Quick summary since 2016: First Author (13), Last Author (7), Awarded Paper (2), CHI (7), UIST (10), IROS (2), ICRA (1), ICSE (1), ASSETS (1), and other venues (5). About 1,200 citations and 19 h-index and 22 i10-index since 2016, based on Google Scholar as of 7/2023. [a]

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[a] https://scholar.google.com/citations?user=klWjaQIAAAAJ

[J1] Hooman Hedayati, **Ryo Suzuki**, Wyatt Rees, Daniel Leithinger, Daniel Szafir. Designing Expandable-Structure Robots for Human-Robot Interaction *Frontiers in Robotics and AI*. 2022.

[C28] Neil Chulpongsatorn*, Mille Skovhus Lunding*, Nishan Soni, **Ryo Suzuki**. (* equally contributed) Augmented Math: Authoring AR-Bassed Explorable Explanations by Augmenting Static Math Textbooks. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '23**, acceptance rate: 25%)

[C27] Keiichi Ihara, Mehrad Faridan, Ayumi Ichikawa, Ikkaku Kawaguchi, **Ryo Suzuki**. HoloBots: Augmenting Holographic Telepresence with Mobile Robots for Tangible Remote Collaboration in Mixed Reality. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '23**, acceptance rate: 25%)

[C26] Zhijie Xia*, Kyzyl Monteiro*, Kevin Van, **Ryo Suzuki**. (* equally contributed) RealityCanvas: Augmented Reality Sketching for Embedded and Responsive Scribble Animation Effects. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '23**, acceptance rate: 25%)

[C25] Jiatong Li, **Ryo Suzuki**, Ken Nakagaki. Physica: Interactive Tangible Physics Simulation based on Tabletop Mobile Robots towards Explorable Physics Education. *In Proceedings of the ACM Conference on Designing Interactive Systems*. ACM, 2023. (**DIS '23**, acceptance rate: 24%)

[C24] Mehrad Faridan, Bheesha Kumari, **Ryo Suzuki**. ChameleonControl: Teleoperating Real Human Surrogates through Mixed Reality Gestural Guidance for Remote Hands-on Classrooms *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems*. ACM, 2022. (**CHI '23**, acceptance rate: 28%)

[C23] Kyzyl Monteiro, Ritik Vatsal, Neil Chulpongsatorn, Aman Parnami, **Ryo Suzuki**. Teachable Reality: Prototyping Tangible Augmented Reality with Everyday Objects by Leveraging Interactive Machine Teaching. *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems*. ACM, 2022. (**CHI '23**, acceptance rate: 28%)

[C22] Hiroki Kaimoto, Kyzyl Monteiro, Mehrad Faridan, Jiatong Li, Samin Farajian, Yasuaki Kakehi, Ken Nakagaki, **Ryo Suzuki**. Sketched Reality: Sketching Bi-Directional Interactions Between Virtual and Physical Worlds with AR and Actuated Tangible UI. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '22**, acceptance rate: 26%)

[C21] Jian Liao, Adnan Karim, Shivesh Jadon, Rubaiat Habib, **Ryo Suzuki**. RealityTalk: Real-Time Speech-Driven Augmented Presentation for AR Live Storytelling. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '22**, acceptance rate: 26%)

[C20] Martin Nisser, Yashaswini Makaram, Lucian Covarrubias, Amadou Yaye Bah, Faraz Faruqi, **Ryo Suzuki**, Stefanie Mueller. Mixels: Fabricating Interfaces using Programmable Magnetic Pixels. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '22**, acceptance rate: 26%)

[C19] Martin Nisser, Yashaswini Makaram, Faraz Faruqi, **Ryo Suzuki**, Stefanie Mueller Selective Self-Assembly using Re-Programmable Magnetic Pixels. *In Proceedings of 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems*. IEEE, 2022 (**IROS '22**, acceptance rate: 48%)

[C18] Martin Nisser, Leon Cheng, Yashaswini Makaram, **Ryo Suzuki**, Stefanie Mueller. ElectroVoxel: Electromagnetically Actuated Pivoting for Scalable Modular Self-Reconfigurable Robots. *In Proceedings of the IEEE International Conference on Robotics and Automation*. ACM, 2022. (**ICRA '22**, acceptance rate: 43%)

[C17] **Ryo Suzuki**, Adnan Karim, Tian Xia, Hooman Hedayati, Nicolai Marquardt. Augmented Reality and Robotics: A Survey and Taxonomy for AR-enhanced Human-Robot Interaction and Robotic Interfaces. *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems*. ACM, 2022. (**CHI '22**, acceptance rate: 26%)

[C16] **Ryo Suzuki**, Eyal Ofek, Mike Sinclar, Daniel Leithinger, Mar Gonzalez-Franco. HapticBots: Distributed Encountered-type Haptics for VR with Multiple Shape-changing Mobile Robots. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2021. (**UIST '21**, acceptance rate: 25%)

[C15] **Ryo Suzuki**, Rubaiat Habib, Li-Yi Wei, Stephen Diverdi, Wilmot Li, Daniel Leithinger. RealitySketch: Embedding Responsive Graphics and Visualizations in AR through Dynamic Sketching. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2020. (**UIST '20**, acceptance rate: 21%)
Honorable Mention Paper Award (top 5%)

[C14] Hooman Hedayati, **Ryo Suzuki**, Daniel Leithinger, Daniel Szafir. PufferBot: Actuated Expandable Structures for Aerial Robots. *In Proceedings of 2020 IEEE/RSJ International Conference on Intelligent Robots and Systems*. IEEE, 2020 (**IROS '20**, acceptance rate: 47%)

[C13] **Ryo Suzuki**, Hooman Hedayati, Clement Zheng, James Bohn, Daniel Szafir, Ellen Yi-Luen Do, Mark D. Gross, Daniel Leithinger. RoomShift: Room-scale Dynamic Haptics for VR with Furniture-moving Swarm Robots. *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems*. ACM, 2020. (**CHI '20**, acceptance rate: 24%)

[C12] **Ryo Suzuki**, Ryosuke Nakayama, Dan Liu, Yasuaki Kakehi, Mark D. Gross, Daniel Leithinger. LiftTiles: Constructive Building Blocks for Prototyping Room-scale Shape-changing Interfaces. *In Proceedings of the ACM International Conference on Tangible, Embedded and Embodied Interaction*. ACM, 2020. (**TEI '20**, acceptance rate: 28%)

[C11] **Ryo Suzuki**, Clement Zheng, Yasuaki Kakehi, Tom Yeh, Ellen Do, Mark D. Gross, Daniel Leithinger. ShapeBots: Shape-changing Swarm Robots. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2019. (**UIST '19**, acceptance rate: 24%)

[C10] Ryosuke Nakayama*, **Ryo Suzuki***, Satoshi Nakamaru, Ryuma Niiyama, Yoshihiro Kawahara, Yasuaki Kakehi. (* equally contributed) MorphIO: Entirely Soft Sensing and Actuation Modules for Programming Shape Changes through Tangible Interaction. *In Proceedings of the ACM Conference on Designing Interactive Systems*. ACM, 2019. (**DIS '19**, acceptance rate: 25%)
Best Paper Award (top 1%)

[C9] **Ryo Suzuki**, Junichi Yamaoka, Daniel Leithinger, Tom Yeh, Mark D. Gross, Yoshihiro Kawahara, Yasuaki Kakehi. Dynablock: Dynamic 3D Printing for Instant and Reconstructable Shape Formation. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2018. (**UIST '18**, acceptance rate: 20%)

[C8] **Ryo Suzuki**, Koji Yatani, Mark D. Gross, Tom Yeh. Tabby: Explorable Design for 3D Printing Textures. *In Proceedings of the Pacific Conference on Computer Graphics and Applications*. Eurographics Association, 2018 (**PG '19**, acceptance rate: 26%)

[C7] **Ryo Suzuki**, Jun Kato, Mark D. Gross, Tom Yeh. Reactile: Programming Swarm User Interfaces through Direct Physical Manipulation. *In Proceedings of the CHI Conference on Human Factors in Computing Systems*. ACM, 2018. (**CHI '18**, acceptance rate: 25%)

[C6] Hyunjoo Oh, Tung D. Ta, **Ryo Suzuki**, Mark D. Gross, Yoshihiro Kawahara, Lining Yao. PEP (3D Printed Electronic Papercrafts): An Integrated Approach for 3D Sculpting Paper-based Electronic Devices. *In Proceedings of the CHI Conference on Human Factors in Computing Systems.* ACM, 2018. (**CHI '18**, acceptance rate: 25%)

[C5] **Ryo Suzuki**, Abigale Stangl, Mark D Gross, Tom Yeh. FluxMarker: Enhancing Tactile Graphics with Dynamic Tactile Markers. *In Proceedings of the International ACM SIGACCESS Conference on Computers and Accessibility.* ACM, 2017. (**ASSETS '17**, acceptance rate: 26%)

[C4] **Ryo Suzuki**, Gustavo Soares, Andrew Head, Elena Glassman, Ruan Reis, Melina Mongiovi, Loris D'Antoni, Bjoern Hartmann. TraceDiff: Debugging Unexpected Code Behavior Using Trace Divergences. *In Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing.* IEEE, 2017. (**VL/HCC '17**, acceptance rate: 29%)

[C3] Andrew Head, Elena Glassman, Gustavo Soares, **Ryo Suzuki**, Lucas Figueredo, Loris D'Antoni, Bjoern Hartmann. Writing Reusable Code Feedback at Scale with Mixed-Initiative Program Synthesis. *In Proceedings of the ACM Conference on Learning at Scale.* ACM, 2017. (**L@S '17**, acceptance rate: 22%)

[C2] Reudismam Rolim, Gustavo Soares, Loris D'Antoni, Oleksandr Polozov, Sumit Gulwani, Rohit Gheyi, **Ryo Suzuki**, Bjoern Hartmann. Learning Syntactic Program Transformations from Examples. *In Proceedings of the International Conference on Software Engineering.* IEEE, 2017. (**ICSE '17**, acceptance rate: 19%)

[C1] **Ryo Suzuki**, Niloufar Salehi, Michelle S. Lam, Juan C. Marroquin, Michael S. Bernstein. Atelier: Repurposing Expert Crowdsourcing Tasks as Micro-internships. *In Proceedings of the CHI Conference on Human Factors in Computing Systems.* ACM, 2016. (**CHI '16**, acceptance rate: 23%)

Workshop Organizers

[W1] **Ryo Suzuki**, Mar Gonzalez-Franco, Misha Sra, David Lindlbauer, Hrvoje Benko. XR and AI: AI-enabled Virtual, Augmented, and Mixed Reality. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology.* ACM, 2023. (**UIST '23** Workshop)

Peer-Reviewed Demo and Poster Publications

[D18] Neil Chulpongsatorn, Wesley Willett, **Ryo Suzuki**. HoloTouch: Interacting with Mixed Reality Visualizations through Smartphone Proxies. *In Proceedings of the CHI Conference Extended Abstracts on Human Factors in Computing Systems.* ACM, 2023. (**CHI '23** Late-Breaking Work, acceptance rate: 34%)

[D17] Cathy Fang, **Ryo Suzuki**, Daniel Leithinger. VR Haptics at Home: Repurposing Everyday Objects and Environments for Room-Scale VR Haptic Interaction. *In Proceedings of the CHI Conference Extended Abstracts on Human Factors in Computing Systems.* ACM, 2023. (**CHI '23** Late-Breaking Work, acceptance rate: 34%)

[D16] Mehrad Faridan, Marcus Friedel, **Ryo Suzuki**. UltraBots: Large-Area Mid-Air Haptics for VR with Robotically Actuated Ultrasound Transducers. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '22** Student Innovation Contest)
Honorable Mention Best Student Innovation Contest Award (top three)

[D15] Marcus Friedel, Ehud Sharlin, **Ryo Suzuki**. HapticLever: Kinematic Force Feedback using a 3D Pantograph. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2022. (**UIST '22** Poster)

[D14] **Ryo Suzuki**, Rubaiat Habib, Li-Yi Wei, Stephen Diverdi, Wilmot Li, Daniel Leithinger. RealitySketch: Augmented Reality Sketching for Real-time Embedded and Responsive Visualizations. *SIGGRAPH Asia 2021 Real-Time Live!*. ACM, 2021. (**SIGGRAPH Asia '21** Real-Time Live!)

[D13] Hiroki Kaimoto, Samin Farajian, **Ryo Suzuki**. Swarm Fabrication: Reconfigurable 3D Printers and Drawing Plotters Made of Swarm Robots. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2021. (**UIST '21** Student Innovation Contest)
Best Student Innovation Contest Award (top one)

[D12] Martin Nisser, Leon Cheng, Yashaswini Makaram, **Ryo Suzuki**, Stefanie Mueller. Programmable Polarities: Actuating Interactive Prototypes withProgrammable Electromagnets. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2021. (**UIST '21** Demo)

[D11] **Ryo Suzuki**, Eyal Ofek, Mike Sinclar, Daniel Leithinger, Mar Gonzalez-Franco. Demonstrating HapticBots: Distributed Encountered-type Haptics for VR with Multiple Shape-changing Mobile Robots. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2021. (**UIST '21** Demo)

[D10] **Ryo Suzuki**, Rubaiat Habib, Li-Yi Wei, Stephen Diverdi, Wilmot Li, Daniel Leithinger. Demonstrating RealitySketch: Embedding Responsive Graphics and Visualizations in AR through Dynamic Sketching. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2020. (**UIST '20** Demo)
Honorable Mention Best Demo Award (top two demos)

[D9] **Ryo Suzuki**. Collective Shape-changing Interfaces. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2019. (**UIST '19** Doctoral Consortium)

[D8] **Ryo Suzuki**, Ryosuke Nakayama, Dan Liu, Yasuaki Kakehi, Mark D. Gross, Daniel Leithinger. LiftTiles: Modular and Reconfigurable Room-scale Shape Displays through Retractable Inflatable Actuators. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2019. (**UIST '19** Poster)

[D7] **Ryo Suzuki**, Clement Zheng, Yasuaki Kakehi, Tom Yeh, Ellen Do, Mark D. Gross, Daniel Leithinger. Demonstrating ShapeBots: Shape-changing Swarm Robots. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2019. (**UIST '19** Demo)

[D6] **Ryo Suzuki**, Junichi Yamaoka, Daniel Leithinger, Tom Yeh, Mark D. Gross, Yoshihiro Kawahara, Yasuaki Kakehi. Demonstrating Dynablock: Dynamic 3D Printing for Instant and Reconstructable Shape Formation. *In Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2018. (**UIST '18** Demo)

[D5] **Ryo Suzuki**, Gustavo Soares, Elena Glassman, Andrew Head, Loris D'Antoni, Bjoern Hartmann. Exploring the Design Space of Automatically Synthesized Hints for Introductory Programming Assignments. *In Proceedings of the CHI Conference Extended Abstracts on Human Factors in Computing Systems*. ACM, 2017. (**CHI '17** Late-Breaking Work, acceptance rate: 37%)

[D4] Stanford Crowd Research Collective (For the full author list, please see the publication), Daemo: A Self-Governed Crowdsourcing Marketplace. *In Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology*. ACM, 2015. (**UIST '15** Poster)

[D3] **Ryo Suzuki**. Toward a Community Enhanced Programming Education. *In Proceedings of the CHI Conference Extended Abstracts on Human Factors in Computing Systems*. ACM, 2015. (**CHI '15** Workshop Paper)

[D2] **Ryo Suzuki**, Interactive and Collaborative Source Code Annotation. *In Proceedings of the International Conference on Software Engineering*. IEEE, 2015. (**ICSE '15** Poster)

[D1] **Ryo Suzuki**, Network Thresholds and Multiple Equilibria in the Diffusion of Content-based Platforms. *In Proceedings of the International Conference on Web and Internet Economics*. Springer, 2014. (**WINE '14** Poster)

Patents

[P3] Mar Gonzalez-Franco, Eyal Ofek, Mike Sinclair, **Ryo Suzuki**. "Mobile Haptic Robots". U.S. Patent 17/356,513, 2022.

[P2] Rubaiat Habib Kazi, Stephen Joseph DiVerdi, **Ryo Suzuki**, Li-Yi Wei, Wilmot Wei-Mau Li. "Systems for Augmented Reality Sketching." U.S. Patent 11,158,130, 2021, issued October 26, 2021.

[P1] Yasuaki Kakehi, **Ryo Suzuki**, Junichi Yamaoka, Yoshihiro Kawahara. "Reconstructable 3D Block Assembly" Japan Patent Application, filed October, 2018.

Awards and Scholarships

Awards

2022 **UIST 2022 Honorable Mention Best Student Innovation Contest Award (for Mehrad Faridan and Marcus Friedel)**

2021 **UIST 2021 Best Student Innovation Contest Award (for Samin Farajian and Hiroki Kaimoto)**

2021 **Snap Creative Challenge Award for The Future of Co-located Social AR**

2020 **UIST 2020 Honorable Mention Best Demo Award**

2020 **UIST 2020 Honorable Mention Best Paper Award**

2020 **University of Colorado Boulder Outstanding Research Award in CS**

2019 **DIS 2019 Best Paper Award**

2018 **Google PhD Fellowship Finalist**

2013 **Tech Crunch Disrupt in Tokyo 2013** Finalist

2012 **University of Tokyo Startup Competition** 1st Prize Winner

Scholarship

2015-2020 **CU Boulder Travel Grant** ($500-$1,200 for each conference travel)

2015-2020 **Nakajima Foundation Scholarship** ($120,000 stipend for 5 years and 2 years tuition coverage)

2013-2015 **JSPS Research Fellow DC1** ($72,000 stipend for 2 years)

2011-2013 **JASSO Fellow (Total Exemption for Outstanding Students)** ($20,000 stipend for 2 years)

2010 **Tohso Foundation Scholorship** ($3,600)

Funding

2023 **Ryo Suzuki**. Google Collaborative Research Gift Funding (with Mar Gonzalez-Franco), $30,000 USD

2023 **Ryo Suzuki** (Co-PI: Ehud Sharlin, Lora Oehlberg, Wesley Willett, Aditya Shekhar Nittala). *NSERC*, NSERC RTI, $150,000 CAD

2022 **Ryo Suzuki**. Adobe Collaborative Research Gift Funding (with Rubaiat Habib), $25,000 USD

2021 **Ryo Suzuki** (for Hiroki Kaimoto). *Mitacs*, Mitacs Globalink Research Award, $6,000
https://www.mitacs.ca/en/programs/globalink/globalink-research-award

2021 **Ryo Suzuki** (for Kyzyl Monteiro and Ritik Vatsal). Augmented Reality based Real-time Visualization to Seamlessly Integrate Virtual and Physical Worlds. *Mitacs*, Mitacs Globalink Research Internship Funding
https://www.mitacs.ca/en/programs/globalink/globalink-research-internship

2021 **Ryo Suzuki**. Augmenting In-person Verbal Communication by Adding Interactivity to Transcribed Spoken Words in AR. *Snap, Inc*, Snap Creative Challenge Funding, $15,000 USD
https://www.snapcreativechallenge.com/

2021 **Ryo Suzuki** (for Harrison Chen). Investigating Human-Drone Interaction with VR Simulation. *NSERC*, NSERC USRA, $6,000 CAD

2021 **Ryo Suzuki** (for Colin Au Yeoung). Situated Guidance and Visualization to Support Personal Fabrication Activities. *NSERC*, NSERC USRA, $6,000 CAD

2021 **Ryo Suzuki**. Mixed Reality for IoT and Robotics: Opportunities and Challenges for Immersive Human-Robot Interaction. *Tohoku University*, Tohoku University Research Institute of Electrical Communication, Cooperative Research Projects, $18,000 CAD
https://www.riec.tohoku.ac.jp/en/nation-wide/koubo/r3/

2021 **Ryo Suzuki**. *NSERC*, NSERC Discovery Grant Funding, $145,000 CAD

2021 **Ryo Suzuki**. *University of Calgary*, Startup Funding, $100,000 CAD

2019 **Ryo Suzuki**. Adaptive Physical Environments with Distributed Swarm Robots. *Ministry of Internal Affairs and Communications in Japan*, Innovation Research Funding, $30,000
https://www.inno.go.jp/en/

2019 **Ryo Suzuki**. Adobe Gift Funding, $5,000

2018 **Ryo Suzuki**. Dynamic Physical Interfaces. *JST in Japan*, ACT-I Funding for Young Scholars, $30,000 and Mentorship Opportunity (my mentor was Takeo Igarashi)
https://www.jst.go.jp/kisoken/act-i/en/index.html

2018 **Ryo Suzuki**. Programmable Architecture with Soft Inflatable Actuator. *Leave a Nest Foundation in Japan*, Emerging Research Funding for AI and Interdisciplinary Research $5,000

2013-2015 **Ryo Suzuki**. Network-based Diffusion Analysis for Online Community, *JSPS*, KAKENHI Grants-in-Aid for Scientific Research, $40,000

Student Funding

2023 **Mehrad Faridan**. Gary Marsden Travel Awards, *ACM SIGCHI*, $3,000 CAD

2023 **Kyzyl Monteiro**. Gary Marsden Travel Awards, *ACM SIGCHI*, $3,000 CAD

2023 **Shivesh Jadon**. Graduate Student Scholarship, *Alberta Innovates*, $18,600 CAD

2023 **Marcus Friedel**. Graduate Student Scholarship, *Alberta Innovates*, $18,600 CAD

2022 **Neil Chulpongsatorn**. Alberta Graduate Excellence Scholarship (AGES), *Alberta Government*, $11,000 CAD

2022 **Adnan Karim**. Alberta Graduate Excellence Scholarship (AGES), *Alberta Government*, $11,000 CAD

2022 **Shivesh Jadon**. Alberta Graduate Excellence Scholarship (AGES), *Alberta Government*, $11,000 CAD

2022 **Shivesh Jadon**. Rizvi Family Graduate Scholarship, *University of Calgary*, $2,000 CAD

2022 **Shivesh Jadon**. Departmental Research Award, *University of Calgary*, $11,000 CAD

2022 **Marcus Friedel**. Canada Graduate Scholarships Master's Program (CGS-M), *NSERC*, $17,500 CAD

2021 **Marcus Friedel**. Departmental Research Award, *University of Calgary*, $11,000 CAD

Teaching

Courses

Winter 2024 **CPSC 599: Design of Mixed Reality Apps (Undergradate)**
Department of Computer Science, University of Calgary

Winter 2024 **CPSC 584: Human-Robot Interaction (Undergradate)**
Department of Computer Science, University of Calgary

Fall 2023 **CPSC 581: Human-Computer Interaction II (Undergradate)**
Department of Computer Science, University of Calgary

Winter 2023 **CPSC 599: Design of Mixed Reality Apps (Undergradate)**
Department of Computer Science, University of Calgary

Winter 2023 **CPSC 584: Human-Robot Interaction (Undergradate)**
Department of Computer Science, University of Calgary

Fall 2022 **CPSC 581: Human-Computer Interaction II (Undergradate)**
Department of Computer Science, University of Calgary

Winter 2022 **CPSC 601: AR/VR and Robotics (Graduate)**
Department of Computer Science, University of Calgary

Fall 2021 **CPSC 581: Human-Computer Interaction II (Undergradate)**
Department of Computer Science, University of Calgary

Winter 2021 **CPSC 599: Design of Mixed Reality Apps (Undergradate)**
Department of Computer Science, University of Calgary

Teaching Assistant

Fall 2019 **CSCI 3002: Fundamentals of Human Computer Interaction (Undergraduate)**
Instructor: Prof. Shaun Kane
Department of Computer Science, University of Colorado Boulder

Spring 2017 **ATLS 6000: Soft Robotics (Graduate)**
Instructor: Prof. Mark D. Gross
ATLAS Institute, University of Colorado Boulder

Fall 2012 **Game and Network Theory (Graduate)**
Instructor: Prof. Michihiro Kandori
Department of Economics, University of Tokyo

Fall 2012 **Dynamic Programming and Optimization (Graduate)**
Instructor: Prof. Kazuya Kamiya
Department of Economics, University of Tokyo

Students

Supervision

01/2023 –
present
Aditya Gunturu
MSc student
Mixed Reality

01/2021 –
present
Neil Chulpongsatorn
MSc student and Undergraduate research student (CPSC 502 Course)
Cross-Device Interaction / Mixed Reality / Data Visualization (**CHI'23**, **CHI'23 LBW**)

05/2021 –
present
Adnan Karim
MSc student
AR/VR and Robotics (**CHI'22**)

09/2021 –
present
Shivesh Jadon
MSc student (co-supervised by Wesley Willet)
Social AR / Data Visualization (**UIST'22**)

09/2021 –
present
Marcus Friedel
MSc student (co-supervised by Ehud Sharlin)
Wearable VR Haptics (**UIST'22 SIC**, **UIST'22 Poster**)

09/2021 –
present
Samin Farajian
MSc student
Swarm User Interfaces / Augmented Reality (**UIST'22**, **UIST'21 SIC**)

01/2021 –
present
Christopher Smith
MSc student (co-supervised by Ehud Sharlin and Sowmya Somanath)
In-situ Immersive Haptic Authoring

Undergraduate Students

12/2021 –
present
Mehrad Faridan
Undergraduate research student (CPSC 503 Course)
Augmented Conversation / Remote Telepresence (**UIST'22**, **UIST'22 SIC**, **CHI'23**)

04/2022 –
present
Kevin Van
Undergraduate research student
Augmented Reality Authoring Tool (**CHI'23 LBW**)

04/2022 –
present
Zhijie Xia
Undergraduate research student
Augmented Reality Authoring Tool (**CHI'23 LBW**)

01/2023 –
present
Jarin Thundathil
Undergraduate research student (CPSC 503 Course / NSERC USRA)
Augmented Reality with Natural Language

01/2023 – **Melissa Hoang**
present Undergraduate research student (CPSC 503 Course)
Augmented Reality with Natural Language

01/2023 – **Bheesha Kumari**
present Undergraduate research student (CPSC 503 Course)
Remote Telepresence (**CHI'23**)

01/2023 – **Nishan Soni**
present Undergraduate research student (UCalgary PURE)
Augmented Reality Authoring Tool

01/2023 – **Abhinav Pillai**
present Undergraduate research student
Augmented Reality for Medical Applications

01/2023 – **Saja Abufarha**
present Undergraduate research student
Augmented Reality with Natural Language

12/2021 – **Jian Liao**
present Undergraduate research student (CPSC 503 Course)
Augmented Presentation (**UIST'22, CHI'23 LBW**)

05/2021 – **Tian Xia**
present Undergraduate research student (CPSC 502 Course, co-supervised by Ehud Sharlin)
AR for Robotics / Cross-scale Interactions with AR/VR (**CHI'22**)

09/2022 – **Faiz Marsad**
04/2023 Undergraduate research student (CPSC 502 Student)
Augmented Reality and AI

04/2022 – **Muhammad Mahian**
09/2022 Undergraduate research student (UCalgary PURE)
Augmented Reality Authoring Tool

05/2021 – **Colin Au Yeung**
04/2022 Undergraduate research student (NSERC USRA, co-supervised by Wesley Willet)
Augmented Makrespace

09/2021 – **Kaynen Mitchell**
03/2022 Undergraduate research student (CPSC 502 Course)
Reconfigurable Swarm Robotic Displays

09/2021 – **Manjot Khangura**
03/2022 Undergraduate research student (CPSC 502 Course)
Survey, Taxonomy, and Evaluation of Embedded Data Visualization

09/2021 – **Manuel Rodriguez,**
03/2022 Undergraduate research student (CPSC 502 Course)
Live Video Annotation and Augmentation for Real-Time Sports Analysis

09/2021 – **Christopher Rodriguez**
03/2022 Undergraduate research student (CPSC 503 Course)
Robot Teleoperation with AR/VR

12/2021 – **Tiffany Tang**
03/2022 Undergraduate research student (CPSC 503 Course)
Swarm User Interfaces

12/2021 – **Edward Mah**
03/2022 Undergraduate research student (CPSC 503 Course)
Augmented Conversation

05/2021 – **Harrison Chen**
09/2021 Undergraduate research student (NSERC USRA)
Human-Drone Interaction

Visiting Students

12/2022 – **Keiichi Ihara**
present Visiting MS student intern (University of Tsukuba)

12/2022 – **Freya Wen**
present Visiting undergraduate student intern (City University of Hong Kong)

10/2022 – **Ryota Gomi**
present Visiting MS student intern (University of Tohoku)

02/2023 – **Mille Lunding**
present Visiting PhD student (Aarhus University)

02/2023 – **Rasmus Lunding**
present Visiting PhD student (Aarhus University)

07/2021 – **Hiroki Kaimoto**
present Mitacs Globalink student intern (University of Tokyo)
UIST'22

05/2022 – **Kyzyl Monteiro**
present Mitacs Globalink summer student intern (IIIT Delhi)
UIST'22, CHI'23

05/2022 – **Ritik Vatsal**
01/2023 Mitacs Globalink summer student intern (IIIT Delhi)
CHI'23

05/2022 – **Shrivatsa Mishra**
01/2023 Mitacs Globalink summer student intern (IIIT Delhi)

06/2022 – **Johann Wentzel**
01/2023 Visiting PhD student (University of Waterloo)

09/2021 – **Vaishvi Shah**
present High-school research student (Henry Wise Wood High School)

05/2021 – **Curtis Engerdahl**
09/2021 Summer undergraduate research student (University of Alberta)

05/2021 – **Gurnoor Aujla**
09/2021 Summer undergraduate research student (University of Alberta)

05/2021 – **Carrie Rong**
08/2021 Summer undergraduate research student (McGill University)

Student Collaborators

01/2023 – **Justin Moon**
present PhD student at KAIST (Andrea Bianchi's Student)

01/2021 – **Martin Nisser**
11/2022 PhD student at MIT CSAIL (Stefanie Mueller's Student)

Thesis Committee

2023 **Yuki Onishi**
PhD Thesis Committee (supervisor: Yoshifumi Kitamura)
Title: Actuated Walls as Media Connecting and Dividing Physical/Virtual Spaces

2021 **Brennan Jones**
PhD Thesis Committee (supervisor: Tony Tang)
Title: Designing Remote Collaboration Technologies for Wilderness Search and Rescue

2020 **Kendra Wannamaker**
MSc Thesis Committee (supervisor: Wesley Willett)
Title: Situated Self-Tracking: Ideating, Designing, and Deploying Dedicated User-driven Personal Informatics Systems

Mentoring (During PhD)

2019 **Chrystalina Pharr**
Undergraduate student in Mechanical Engineering
University of Colorado Boulder
Project: ceiling-based swarm robots

2019 **James Bohn**
Undergraduate student in Computer Science
University of Colorado Boulder
Project: furniture-moving swarm robots

2018 **Ryosuke Nakayama**
Master student in Media Design
Keio University (now Sony)
Project: interactive soft robots and shape-changing inflatable structure

2018 **Takayuki Hirai**
Undergraduate student in Media Design
Keio University (now Nintendo)
Project: shape-changing swarm robots

2018 **Takumi Murayama**
Undergraduate student in Media Design
Keio University
Project: reprogrammable inflatable architectural structure

2017 **Kevin Kuwata**
Master student in Electrical and Computer Engineering
University of Colorado Boulder (now Apple)
Project: mm-scale swarm robots with electromagnetic actuation

2017 **Zhixian Jin**
Undergraduate student in Electrical and Computer Engineering
University of Colorado Boulder
Project: tactile feedback with actuated magnetic marker

2016 **Ruan Reis**
Master student in Computer Science
Federal University of Campina Grande
Project: automated hint generation for programming assignment

2015 **Michelle Lam**
Undergraduate student in Computer Science
Stanford University (now PhD at Stanford University)
Project: micro-internship with repurposed crowdsourcing tasks

2015 **Juan Marroquin**
Undergraduate student in Computer Science
Stanford University (now Microsoft)
Project: micro-internship with repurposed crowdsourcing tasks

2015 **Adam Ginzberg**
Undergraduate student in Computer Science
Stanford University (now Coda.io)
Project: crowd research

Selected Press Coverage

05/2023 Arch Magazine. *What if Instead of Living with Computers, We Lived in a Computer?*

04/2023 TechXplore. *A System that Augments Mixed Reality Visualizations using Smartphones or Tablets*

05/2022 UCalgary News. *New Shape Shifting Robot Design Offers Solutions for Long-Distance Space Missions*

02/2022 Forbes. *Programmable Matter: MIT Building Self-Assembling Robots for Space*

03/2022   IEEE Spectrum. *Programmable Blocks Tease Self-Assembling Space Structures Self-reconfiguring Robot Cubes Use Electromagnets to Shift Shapes in Zero-G*

02/2022   Popular Science. *These shape-shifting robots could make for great furniture in pace*

02/2022   MIT News. *Robotic cubes shapeshift in outer space Self-reconfiguring ElectroVoxels use embedded electromagnets to test applications for space exploration*

02/2022   Engadget. *Scientists create cube robots that can shapeshift in space*

02/2022   TechXplore. *Robotic cubes: Self-reconfiguring ElectroVoxels use embedded electromagnets to test applications for space exploration*

02/2022   TechEBlog. *MIT Researchers Develop Shape-Shifting ElectroVoxel Robots for Space Exploration*

02/2022   TechEBlog. *MIT Researchers Develop Shape-Shifting ElectroVoxel Robots for Space Exploration*

02/2022   IEEE Spectrum. *Video Friday: Your weekly selection of awesome robot videos*

02/2022   Arduino Blog. *ElectroVoxel robots reconfigure themselves using magnets*

02/2022   Hackster.io. *These Magnetic Robots Assemble Like Voltron*

02/2022   Robotic Gizmos. *ElectroVoxel Cube Based Reconfigurable Robot*

01/2022   CGWorld. *RealitySketch: Augmented Reality Sketching in SIGGRAPH Asia*

11/2021   UCalgary News. *"Touchable spoken words" bring the fantastic to life*

07/2021   IEEE Computer Graphics and Applications. *Cover Story of "Real Virtual Reality" (vol. 41)*

03/2021   IT Media News. *Evolution of "AR Drawing"? RealitySketch, a sketching technology that works with objects in reality*

12/2020   TechXplore. *RealitySketch: An AR interface to create responsive sketches*

10/2020   ACM TechNews. *Pufferfish-inspired robot could improve drone safety*

10/2020   Interesting Engineering. *Pufferfish Mimicking Drones to Improve Aerial Safety*

10/2020   New Atlas. *Drone draws on the pufferfish to protect itself and others*

10/2020   Techable. *University of Colorado researchers unveil 'RoomShift' to move props in VR space in real life*

10/2020   Hackster.io. *Putting the Reality in Virtual Reality*

09/2020   Hackster.io. *PufferBot Is an Aerial Robot That Can Change Shape In-Flight*

09/2020   TechXplore. *RoomShift: A room-scale haptic and dynamic environment for VR applications*

09/2020   Engineering 360. *Team builds drone inspired by the pufferfish*

09/2020   TechXplore. *PufferBot: A flying robot with an expandable body*

09/2020	Yahoo News. *The University of Colorado Announced "RoomShift" where Robot Rearranges Furniture to Create Virtual Spaces in a Realistic Way*
09/2020	IT Media News. *RoomShift: Reconfigurable Environments for Virtual Reality*
02/2020	IT Media News. *Giant whistle module expands the room with the University of Colorado and other "LiftTiles" developments*
01/2020	Arduino Blog. *Prototype room-scale, shape-changing interfaces with LiftTiles*
01/2020	TechXplore. *LiftTiles: Actuator-based Building Blocks for Shape-changing Interfaces*
01/2020	ITMedia News. *A Swarm of Self-transforming Robots to Assist People*
11/2019	Hackster.io. *LiftTiles Turn Walls and Floors Into Reconfigurable Structures on Demand*
11/2019	Element 14. *Engineers Develop LiftTiles, a Scale Shape-changing Interface*
11/2019	Bouncy. *Swarm Robots that can Change Shape to Visualize Data*
10/2019	Hackster.io. *Swarming Robots Can Change Their Configuration to Handle Different Tasks*
09/2019	TechXplore. *ShapeBots: A Swarm of Shape-shifting Robots that Visually Display Data*
09/2019	Hackaday. *Tiny Robots that Grow Taller and Wider*
09/2019	Robotic Gizmo. *ShapeBots: Shape Changing Swarm Robots*
09/2019	Gadgetify. *ShapeBots: Shape Changing Swarm Robots*
10/2018	3DPrint.com. *Dynablock: 3D Prints That Assemble and Disassemble in Seconds*
10/2018	Hackster.io. *The Dynamic 3D Printing That Assembles and Disassembles Objects in Seconds*
10/2018	Arduino Blog. *Create Shapes Over and Over with the Dynablock 3D Printer*
10/2018	3DRuck.com. *Dynablock: Dynamischer 3D-Drucker erstellt Objekte in Sekunden*
10/2018	World Business Satellite (Japanese TV). *Repeatable 3D Printer*
10/2018	Nikkei Newspaper, *Modeling 3D Objects with Magnet-Embedded Blocks*
06/2016	Wired. *It's Not Just Robots: Skilled Jobs Are Going to Meatware*

Invited Talks

05/2023	**Programmable Reality: Making the World a Dynamic Medium through Visually and Physically Programmable Environments** CNR - Institute of Cognitive Sciences and Technologies, Rome (hosted by Antonella Maselli)

10/2022 **Programmable Reality: Making the World a Dynamic Medium through Visually and Physically Programmable Environments**
Future University Hakodate, Hakodate (hosted by Hiro Yoshida)

10/2022 **Programmable Reality: Making the World a Dynamic Medium through Visually and Physically Programmable Environments**
Sony CSL, Kyoto (hosted by Jun Rekimoto)

07/2022 **Programmable Reality: Making the World a Dynamic Medium through Visually and Physically Programmable Environments**
KAIST, Daejeon (hosted by Andrea Bianchi and Juho Kim)

05/2022 **Programmable Reality: Making the World a Dynamic Medium through Visually and Physically Programmable Environments**
Calgary Public Library, Calgary

04/2022 **Dynamic Media for Immersive Natives**
Microsoft Research, Redmond (hosted by Andy Wilson and Ken Hinckley)

03/2022 **Programmable Reality: Making the World a Dynamic Medium through Visually and Physically Programmable Environments**
CU Boulder, Boulder (hosted by Ellen Yi Luen Do)

03/2021 **From Augmented Reality to Reconfigurable Reality: Towards Seamless Interactions through Both Visually and Physically Programmable Environments**
MIT CSAIL, Boston (hosted by Arvind Satyanarayan)

02/2021 **From Augmented Reality to Reconfigurable Reality: Towards Seamless Interactions through Both Visually and Physically Programmable Environments**
Tsinghua University, Beijin, China (hosted by Zhicong Lu)

12/2020 **Programmable Environments with Distributed Swarm Robots**
Tohoku University, Tohoku, Japan (hosted by Yoshifumi Kitamura)

05/2020 **Programmable Environments with Distributed Swarm Robots**
University of Calgary, Calgary (hosted by Ehud Sharlin)

03/2020 **Programmable Environments with Distributed Swarm Robots**
Virginia Tech, Blacksburg (hosted by Doug Bowman)

03/2020 **Programmable Environments with Distributed Swarm Robots**
UCSB, Santa Barbara (hosted by Misha Sra)

02/2020 **Programmable Environments with Distributed Swarm Robots**
University of Washington, Seattle (hosted by Shyam Gollakota and Jon Froehlich)

02/2020 **Programmable Environments with Distributed Swarm Robots**
Boston University, Boston (hosted by Emily Whiting)

12/2019 **Adaptive Physical Environment with Distributed Swarm Robots**
CU Boulder ATLAS Seminar, Boulder (hosted by Ellen Do)

11/2019 **Adaptive Physical Environment with Distributed Swarm Robots**
MIT CSAIL, Boston (hosted by Stefanie Mueller)

11/2019 **Adaptive Physical Environment with Distributed Swarm Robots**
MIT Media Lab, Boston (hosted by Hiroshi Ishii)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
University of Tokyo, Tokyo, Japan (hosted by Takeo Igarashi)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
University of Tokyo, Tokyo, Japan (hosted by Jun Rekimoto)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
JST ERATO, Tokyo, Japan (hosted by Yoshihiro Kawahara)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
Takram, Tokyo, Japan (hosted by Hisato Ogata)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
ZOZO Research, Tokyo, Japan (hosted by Satoshi Nakamaru)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
Preferred Networks, Tokyo, Japan (hosted by Hironori Yoshida)

10/2019 **Distributed and Collective Robots as Ubiquitous Interfaces**
Omron ScinicX Research Lab, Tokyo, Japan (hosted by Yoshitaka Ushiku)

06/2019 **Real-time Binding between Physical and Digital Worlds**
Adobe Research, Seattle (hosted by Wilmot Li)

10/2018 **Dynamic Physical Media**
CU Boulder ATLAS Seminar, Boulder (hosted by Mark Gross)

06/2016 **Programming Environment for Physical Computing and Mixed Reality Era**
UC Berkeley BiD Seminar, Berkeley (hosted by Bjoern Hartmann)

Service

2023 – present **Subcommittee Chair**
UIST 2023

2020 – present **Program Committee**
CHI 2022, 2023, 2024
(Blending Interaction Subcommittee)
UIST 2021, 2022, 2023
ISMAR 2021, 2022, 2023
VRST 2021, 2022
TEI 2021, 2022, 2023
GI 2020

2021 – present **Journal Editorial Board**
ACM Transactions of Human-Robot Interaction
Frontiers in Virtual Reality Haptics

2023 – present **Workshop Organizers**
UIST 2023 - XR and AI Workshop

2016 – present **Organizing Committee**
UIST 2023 Program Committee Assistant Co-Chair
CHI 2023 Student Research Competition Jury
UIST 2022 Student Innovation Contest Chair
UIST 2021 Student Innovation Contest Chair
CHI 2021 Social Media Chair
CHI 2021 Student Research Competition Jury
UIST 2016 Web and Social Media Chair

2016 – present **Reviewer**
CHI 2016 - 2023
UIST 2016 - 2023
IMWUT 2020 - 2022
CHI LBW 2018 - 2022
TEI 2018 - 2023
ISS 2021
ISMAR 2020 - 2022
VRST 2020 - 2022
CSCW 2021
TOCHI 2020
PACM 2021
DIS 2021 - 2022
C&C 2021
SUI 2022
ISS 2022
IEEE VR 2020, 2022 - 2023
HRI 2023
VL/HCC 2020
GI 2020
SCF 2019
SIGGRAPH ETech 2018 - 2021

Total about 100-150 reviews.
6 Outstanding Reviews at CHI/UIST

2021 – present **Session Chairs**
CHI 2022 - 2023
UIST 2021 - 2022

2016 – 2017 **Student Volunteer**
CHI 2017
UIST 2016

Academic Services within the University

2023 **Graduate Studies Scholarship Committee Reviewer**
University of Calgary, Department of Computer Science

2022 **Faculty Hiring External Committee**
University of Calgary, Department of Mechanical Engineering

2021 **Safety Committee**
University of Calgary, Department of Computer Science

2021 **Committee Member**
University of Calgary, Professional Master's Game Production & Immersive Tech Program

2021 **Faculty Hiring External Committee**
University of Calgary, Department of Electrical Software Engineering

References

- **Daniel Leithinger**
  Assistant Professor
  University of Colorado Boulder, ATLAS Institute
  daniel.leithinger@colorado.edu

- **Mark D. Gross**
  Director
  University of Colorado Boulder, ATLAS Institute
  mdgross@colorado.edu

- **Hiroshi Ishii**
  Jerome B. Wiesner Professor and Associate Director
  MIT Media Lab
  ishii@media.mit.edu

- **Takeo Igarashi**
  Professor
  University of Tokyo, Department of Computer Science
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- **Mar Gonzalez-Franco**
  Research Scientist Manager
  Google
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- **Bjoern Hartmann**
  Associate Professor
  UC Berkeley, Department of Electrical Engineering and Computer Science
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