

# Kiyosu Maeda

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## EDUCATION

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- **Princeton University** Princeton, USA  
*Ph.D. in Computer Science* *Sep 2023 - Current*  
**Supervisor:** Prof. Parastoo Abtahi
- **The University of Tokyo** Tokyo, Japan  
*M.S. in Interdisciplinary Information Studies, Applied Computer Science Course* *Apr 2021 - Mar 2023*  
**Supervisor:** Prof. Jun Rekimoto  
Master Thesis: Displaying Collective Audience Reactions in Remote Communication.
- **The University of Tokyo** Tokyo, Japan  
*B.E. in Department of Interdisciplinary Sciences* *Apr 2016 - Mar 2021*  
**Supervisor:** Prof. Jun Rekimoto (From Apr 2020)  
Graduation Thesis: Displaying Eye Gaze Reactions of Multiple Students in Synchronous/Asynchronous Distributed Learning.

## RESEARCH AND WORK EXPERIENCE

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- **ACES inc.** *Jul 2021 - Mar 2023*  
*Algorithm Engineer*  
Speech Recognition & Behavior Analysis in Communication with Deep Learning
- **Virtual Reality Educational Research Center @ The University of Tokyo** *Jan 2021 - Mar 2023*  
*Technical Assistant, VR Software Engineer*  
Authoring Tool for Simulating Impaired Vision in VR
- **TELEXISTENCE inc.** *Jan 2019 - Sep 2019*  
*VR Software Engineer*  
Developing a VR User Interface for Telexistence

## PUBLICATIONS

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### Journal, conference, and workshop papers

- [J.4] Riku Arakawa\*, **Kiyosu Maeda\***, Hiromu Yakura\* (\* equal contribution). ConverSearch: Supporting Experts in Human Behavior Analysis of Conversational Videos with a Multimodal Scene Search Tool. In ACM Transactions on Interactive Intelligent Systems, Vol. xx, Issue x, Article No.: xx, pp. x-xx, 2025.
- [J.3] Daiki Kato, **Kiyosu Maeda**, Kazuma Aoyama, Kenichiro Ito, Takayuki Nakagawa, Tomohiro Amemiya. Effectiveness comparison of surgical training for veterinary students using 360-degree VR and conventional video materials. In Transactions of the Virtual Reality Society of Japan, Vol.29, No.4, 2024.
- [J.2] Violet Han, Hyunsung Cho, **Kiyosu Maeda**, Alexandra Ion, David Lindlbauer. BlendMR: A Computational Method to Create Ambient Mixed Reality Interfaces. In Proceedings of the ACM on Human-Computer Interaction, Vol. 7, Issue ISS, Article No.: 436, pp. 217-241, 2023.
- [W.2] **Kiyosu Maeda**, Hyunsung Cho, Violet Han, Jun Rekimoto, David Lindlbauer. Exploring Layouts of Virtual Interfaces in Co-Located Mixed Reality Interactions. 30th Workshop on Interactive Systems and Software, Dec, 2022, Japan. (Domestic Conference)
- [C.2] **Kiyosu Maeda**, Kazuma Aoyama, Manabu Watanabe, Michitaka Hirose, Kenichiro Ito, Tomohiro Amemiya. VisionPainter: Authoring Experience of Visual Impairment in Virtual Reality. In 24th International Conference on Human-Computer Interaction (HCI '22), Virtual, Jun. 2022.
- [C.1] **Kiyosu Maeda**, Riku Arakawa, Jun Rekimoto. CalmResponses: Displaying Collective Audience Reactions in Remote Communication. In ACM International Conference on Interactive Media Experiences (IMX '22), Portugal, Jun. 2022.
- [J.1] Kazuma Aoyama, **Kiyosu Maeda**, Ryoko Ueoka, Shigeo Makioka, Nobukazu Sakura, Kunihiro Nakashima, Michitaka Hirose, Tomohiro Amemiya. Improving Remote Spatial Understanding by Transmitting Spherical Images via Video Chat Applications. In International Journal of Automation Technology, Vol.16, No.3, pp. 286-295, 2022.

[W.1] **Kiyosu Maeda**, Jun Rekimoto. Displaying Collective Audience Reactions in Remote Communication. 28th Workshop on Interactive Systems and Software, December, 2020, Japan. (Domestic Conference)

[Po.1] Riku Arakawa, Yudai Tanaka, Hiromu Kawarasaki, **Kiyosu Maeda**. BulkScreen: Saliency-Based Automatic Shape Representation of Digital Images with a Vertical Pin Array Screen. In Adjunct Publication of the 14th International Conference on Tangible, Embedded, and Embodied Interaction (TEI '20), Sydney, Feb. 2020.

## AWARD

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2024.03 Telecom Interdisciplinary Research Student Award

2023.03 Head of Department Award @ University of Tokyo (for my master thesis)

2022.01 LNest Grant Incu-be Incentive Award (for my research proposal on [C.1] **CalmResponses**)

## SCHOLARSHIP AND GRANT

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2023.08 - 2025.08 Toyota Riken Overseas Scholarship

2022.04 - 2022.09 Toyota Study Abroad Scholarship

2021.10 - 2022.10 WINGS CFS (World-leading Innovative Graduate Study Program Co-designing Future Society)

## ACADEMIC SERVICE

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### Reviewer

CHI '23 - '25

DIS '24

CHI LBW '22-'24

## SKILLS

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### Programming

- **Python**: Deep Learning (PyTorch), Server System (FastAPI)
- **C#**: VR/AR System and Game Development (Unity)
- **Dart**: Mobile Applications (Flutter)
- **C++**: Server System
- **Javascript**: Web Applications (node.js) and Desktop Applications (Electron)

### Tools

- **3D Design & Printing**: Blender
- **2D Design**: Photoshop, Illustrator
- **Video Editing**: Premiere Pro