

YUTO SUZUKI

Ph.D. student



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I am Yuto, a Ph.D student at Hokkaido University in Japan. I research and design motor learning technologies with a focus on visualization of mental imagery using extended reality (XR). My research interests lie at the intersection of Human-Computer Interaction (HCI) and mental imagery— a cognitive process that evokes the sensory characteristics of objects or events that are not physically present. Specifically, my focus is on enhancing motor learning by developing XR visualizations of expert mental imagery that convey key cues for motor skills, such as Aikido, golf and other sports. I am now particularly interested in the potential of visual metaphors, one form of mental imagery, to augment human capabilities.

RESEARCH INTERERTS

Human-Computer Interaction (HCI), Motor Learning, SportsHCI, Mental Imagery, Extended Reality (XR), Field deployment, Ethnography, Soma Design, Research through Design.

EDUCATION

04/2024 – Current	PhD in Human Computer Interaction Hokkaido University, Faculty of Information Science and Technology Advisor: Prof. Daisuke Sakamoto	Sapporo, Japan
04/2022 – 03/2024	MSc. in Human Computer Interaction Hokkaido University, Faculty of Information Science and Technology	Sapporo, Japan
04/2018 – 03/2022	BSc. in Human Computer Interaction Hokkaido University, Faculty of Information Science and Technology	Sapporo, Japan

GRANTS

04/2025 – 03/2027	The Telecommunications Advancement Foundation	3,565,000 yen
04/2025 – 03/2027	Tateisi Science and Technology Foundation (C)	1,000,000 yen
09/2024 – 03/2027	Hokkaido University EXEX Doctoral Fellowship	1,200,000 yen
04/2022 – 03/2023	“KUMA FOUNDATION” : Creator Fellowship	1,200,000 yen
06/2021 – 03/2022	“MITOU PROGRAM” : IT Human Resources Project	2,786,000 yen

HONORS AND AWARDS

- 2023 **DEMONSTRATION AWARD (PEOPLE CHOSE)**
WISS 2023, 3 out of 78 demonstration papers
<https://www.wiss.org/WISS2023/award.html>
- 2022 **BEST PRESENTATION AWARD (PEOPLE CHOSE)**
WISS 2022, 1 out of 16 oral papers
<https://www.wiss.org/WISS2022/award.html>
- 2022 **DEMONSTRATION AWARD (PEOPLE CHOSE)**
WISS 2022, 6 out of 108 demonstration papers
<https://www.wiss.org/WISS2022/award.html>
- 2022 **SUPER CREATORS CERTIFIED AT “MITOU PROGRAM”**
Ministry of Economy, Trade, and Industry in Japan
<https://www.ipa.go.jp/jinzai/mitou/it/qv6pgp000000ie9y-att/000098511.pdf>

CONFERENCE PROCEEDINGS

- 2026 **Yuto Suzuki**, Yuji Hatada, Laia Turmo Vidal, Rintaro Fujino, and Daisuke Sakamoto. 2026. Toward Lived Metaphor: Exploring AR-Based Visual Metaphors for Instructing and Learning Embodied Knowledge in Aikido Practice. In Proceedings of the 2026 Designing Interactive Systems Conference (DIS '26). Association for Computing Machinery, New York, NY, USA, 2886–2902. <https://doi.org/10.1145/3800645.3812858>
- 2025 **鈴木湧登**, 坂本大介, 小野哲雄 : ゴルフのプロのメンタルリハーサルの可視化を通じたパッティングスキルの学習効果の検証, 第 29 回一般社団法人情報処理学会シンポジウム (INTERACTION), 2025.
- 2022 **鈴木湧登**, 坂本大介, 小野哲雄 : Gino .Aiki: 合気道の身体の使い方の習得を支援する MR ソフトウェア, 第 30 回インタラクティブシステムとソフトウェアに関するワークショップ (WISS), pp. 46–55 (2022).

POSTER AND DEMONSTRATION PROCEEDINGS

- 2025 **Yuto Suzuki**, Daisuke Sakamoto, Tetsuo Ono. Rehearsal Reality: Exploring the Visualization of Experts' Mental Rehearsals from a First- Person Perspective to Support the Motor Learning of Novices. In Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '25), April 26-May 1, 2025, Yokohama, Japan. ACM, New York, NY, USA, 7 pages. <https://doi.org/10.1145/3706599.3720124>

- 2023 阿部 優樹, 鈴木 湧登, 坂本 大介, 小野 哲雄: OMEME: 非装着状態の HMD を活用したコンパニオンロボットの開発. 第 30 回インタラクティブシステムとソフトウェアに関するワークショップ (WISS) 2023.
- 2023 Yuto Suzuki, Daisuke Sakamoto, Tetsuo Ono. "Gino .Aiki: Mixed Reality-based Physical Motor Skill Training in Aikido," *2023 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)*, Sydney, Australia, 2023, pp. 519-524, doi: 10.1109/ISMAR-Adjunct60411.2023.00112.

ACADEMIC SERVICE

Committee

ACM DIS 2027 Social Media Chair

Reviewer

IEEE ISMAR 2026 paper

ACM CHI 2025 LBWs