

## Koutaro Kamada (鎌田 光太郎)

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JAIST-SPRING Researcher.

Ph.D. Student, Division of Transdisciplinary Sciences, Graduate School of Advanced Science and Technology, Japan Advanced Institute of Science and Technology.

1-1 Asahidai, Nomi, Ishikawa, Japan.

& Kanazawa University, Japan.

### //My supervisor

Dr. Takaya Yuizono, Professor, Japan Advanced Institute of Science and Technology.

### //My research advisor

Dr. Naomi Yamashita, Kyoto University. (Internship)

Dr. Tzu-Yang Wang, National Institute of Advanced Industrial Science and Technology.

### //BIO

Koutaro Kamada is a JAIST-SPRING researcher, and a Ph.D. student at Japan Advanced Institute of Science and Technology (JAIST). His primary research interests revolve around the areas of Computer-Supported Cooperative Work (CSCW) and Human-Computer Interaction (HCI). To support effective and efficient collaboration between "users" or "user(s) and AI", he is studying the understanding of humans who use emerging technologies (such as xR and AI) and designing interfaces.

### //Research Projects

1. AI-based Decision-making in Human-AI Collaboration: Trust in AI.
2. Group Dynamics in VR Group Discussions: Social Loafing.
3. xR Design for Cognitive Impairment: Developing Cognitive Function Test and Cognitive Rehabilitation. (Collaborative Researcher: Mie Matsui, Professor, Kanazawa University.)

## //EDUCATION

2018.4. - 2022.3. Bachelor of Economics, Takasaki City University of Economics.

2022.4. - 2024.3 Master of Philosophy, Division of Transdisciplinary Sciences, Graduate School of Advanced Science and Technology, Japan Advanced Institute of Science and Technology; Kanazawa University. [Outstanding students]

2024.4. - Present Ph.D. student, Division of Transdisciplinary Sciences, Graduate School of Advanced Science and Technology, Japan Advanced Institute of Science and Technology. Kanazawa University.

## //EXPERIENCE

2024.4 – Present JAIST-SPRING Researcher.

## /Internships

1. Internship (Aug. 2022 - Sep. 2022): "Technical development and operation test of AR remote collaborative work system using Unity and various sensors" (Dr. Mai Otsuki). Information Technology and Human Factors, National Institute of Advanced Industrial Science and Technology (AIST).
2. Internship (Sep. 2022 - Feb. 2023): "Psychological examination" (Dr. Mie Matsui). Laboratory of Neuropsychology, Kanazawa University.
3. Internship (Aug. 2024 – Sep.2024): NTT R&D Research Internship, Social Informatics Laboratories (Dr. Naomi Yamashita).

## /TA

1. TA (Apr. 2023 - Jul. 2023): "Introduction to Systems Development for Knowledge Science Experiment / Survey", Support teaching programming (JavaScript, HTML, CSS) / Evaluating homework, and making course archive/assignment, JAIST.

2. TA (Apr. 2023 - Jul. 2023): "Introduction to Knowledge Creation", JAIST.
3. TA (Apr. 2024 - Jul. 2024): "Introduction to Knowledge Creation", JAIST.
4. TA (Apr. 2025 - Jul. 2025): "Introduction to Knowledge Creation", JAIST.
5. TA (2025): 異分野「超」体験実践 I a, JAIST.

#### /LA

1. LA (Sep. 2023 - Dec. 2023): "ボトムアップ思考とトップダウン思考を区別した創造性支援ツールの基礎研究" (Dr. Takaya Yuizono).
2. LA (Sep. 2023 - Dec. 2023): "ボトムアップ思考を用いた創造技法の基礎研究" (Dr. Takaya Yuizono).

#### /RA

1. RA (2024-2025): 共創的实践で社会を変革する博士人材育成プログラム-大学院リーグのプロトタイプと実装-, JAIST.

#### //PUBLICATIONS

#### /International Paper

1. Koutaro Kamada, Ryuya Watarai, Tzu-Yang Wang, Kentaro Takashima, Yasuyuki Sumi, Takaya Yuizono.: "Explorative study of perceived social loafing in VR group discussion: A comparison between the poster presentation environment and the typical conference environment", IFIP TC.13 International Conference on Human-Computer Interaction (INTERACT), LNCS, vol 14144, pp. 115-134, Springer (Aug. 2023). (Oral, Peer-reviewed, Full paper)
2. Koutaro Kamada, Haruomi Takahashi, Tzu-Yang Wang, Takaya Yuizono.: "Exploring the Effect of User Trust in Generative AI on Decision-Making in Semi-Structured Problem." International Conference on Human-Computer Interaction (HCI International 2025) LNCS, vol 15771, pp. 237-253, Springer. (Oral, Peer-reviewed,

Full paper)

3. Koutaro Kamada, Masami Takahashi, Naomi Yamashita.: "Exploring Mismatches in Self-Others' Perceptions of Effort in Videoconferencing", Extended Abstracts of the 2025 CHI Conference on Human Factors in Computing Systems. Article No.: 247, pp. 1-7.
4. Koutaro Kamada, Nicharee Manakitrungrueng, Takaya Yuizono.: Simply Incorporating Generative AI into Groups Is Not Enough: Exploring the Effects of Human-AI Collaboration in Groups on Brainstorming. IEICE transactions on information and systems. (Conditional acceptance)
5. Koutaro Kamada, Masami Takahashi, Naomi Yamashita.: Under review.
6. Koutaro Kamada, Tzu-Yang Wang, Takaya Yuizono.: Under review

Others: Before submitting to a journal:

- Koutaro Kamada, Sato Shinoda, Mie Matsui, Takaya Yuizono.
- Nicharee Manakitrungrueng\*, Koutaro Kamada\*, Takaya Yuizono. (Co-first author)
- Koutaro Kamada. TCUE Journal.

#### /Domestic Paper (Japanese)

1. 鎌田光太郎, 渡会隆哉, 王子洋, 高島健太郎, 角康之, 由井蘭隆也. : “VR グループ・ディスカッションにおける会議形態の違いがターンテイキングに与える影響”, 第200回ヒューマンインタフェース学会研究会「コミュニケーション支援および一般」, ヒューマンインタフェース学会研究報告集, 25(3), pp.97-102, (May. 2023). (Oral, Non-review)
2. 渡会隆哉, 鎌田光太郎, 王子洋, 高島健太郎, 角康之, 由井蘭隆也. : "VR 会議における他者との対面量に着目した会議の質評価の試み", DICOMO 2023 シンポジウム, (Jul. 2023). (Oral, Non-review, 優秀論文賞)
3. 羅海洋, 由井蘭隆也, 鎌田光太郎, 王子洋. : “感情変化に注目した機械学習による冒険ストーリー生成の試行”, DICOMO 2023 シンポジウム, (Jul. 2023). (Oral, Non-review)

#### /Poster /Demo

1. 渡会隆哉, 鎌田光太郎, 角康之, 王子洋, 由井蘭隆也, 高島健太郎. : “VR 会議における他者との対面量と言語行動の対応関係の分析“, INTERACTION2024 第28回一

般社団法人情報処理学会シンポジウム, (Mar. 2024).

2. 劉 牧辰, 松井三枝, 堂本千晶, 滝口雄太, 由井蘭隆也, 鎌田光太郎. “メタバースによるショッピング課題の作成と実用可能性の検討“, 第 8 回 (2024 年度第 1 回)「生涯学」領域会議, (Aug. 2024).
3. 鎌田光太郎, 篠田怜, 松井三枝, 由井蘭隆也. “VR を利用した社会認知機能の測定手法の試作”, インタラクション 2025
4. 劉 牧辰, 松井三枝, 堂本千晶, 由井蘭隆也, 鎌田光太郎. “メタバース・スーパーマーケット場面を利用した日常生活認知機能の測定法“, 認知神経科学会第 30 回学術集会 (2025).
5. 由井蘭隆也, 鎌田光太郎, 東方沙由理, 元山琴菜, 島田淳一, 白肌邦生, 小泉周, 永井 由佳里 : 21 世紀型トランスファラブルスキルを持つ創造的問題解決人材の存在次元についての考察. 第 47 回日本創造学会研究大会
6. Koutaro Kamada, Satoi Shinoda, Mie Matsui, Takaya Yuizono. A Pilot Study on the Use of Virtual Reality for Assessing Social Cognition. KICSS 2025 Extended Abstracts. Under review.

## //AWARDS

1. Telecommunications Advancement Foundation Award 2023 - Telecom Interdisciplinary Research Student Award. (第 39 回電気通信普及財団賞 テレコム学際研究学生賞 奨励賞) 賞金:30 万円
2. Outstanding Performance Students (MPhil) in JAIST (2024.3). (北陸先端科学技術大学院大学 優秀修了生 並びに 博士前期課程代表者修了)
3. DICOMO2023 Outstanding Paper Award.

## //CONTRIBUTIONS

1. KICSS 2025 Invited Session Co-Chairs. (PC)
2. Invited Talk: "Why and how I am doing metaverse and AI research after graduating from TCUE", in Takasaki City University of Economics, Society of Economics (Aug. 2023).
3. Taking Interview for Admissions Brochure in JAIST (Feb. 2023).
4. Administrative Assistance: 2022 Creativity Society Design Symposium (Dec. 2022).

## //FUNDINGS

JAIST-SPRING. In FY 2024-FY2026.

A grant for transdisciplinary research from the Division of Transdisciplinary Sciences

(Kanazawa University and Japan Advanced Institute of Science and Technology, JAIST).

In FY 2024 and 2025. (代表：Takaya Yuizono)

## //SCHOLARSHIP

2018. 高崎経済大学 後援会学生奨学金（給付型） 2018 年後期. 学業成績優秀者.

2022- 2024. 北陸先端科学技術大学院大学 融合科学共同専攻対象奨学金（給付型）. 入学選抜試験成績優秀者.

2022. インターンシップ渡航費助成 JAIST. (To 産業技術総合研究所)

2022- 2024. 独立行政法人日本学生支援機構（JASSO）. 第一種奨学金 半額免除.

2024-. JAIST-SPRING researcher. 研究奨励費.