

## 2024 年度 個人研究実績・成果報告書

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研究課題	Enhancing Online/Hybrid Academic Meetings through Advanced Audio-Visual Technology and Participant Training				
研究キーワード	Online Meetings, Hybrid Meetings, Audio-Visual Technology, Participant Training, Engagement Strategies	当年度計画に対する達成度		2.順調に研究が進展しており、期待どおりの成果が達成できた	
関連するSDGs項目	4. 質の高い教育をみんなに	9. 産業と技術革新の基盤をつくろう	10. 人や国の不平等をなくそう	17. パートナリーシップで目標を達成しよう	

## 1. 研究成果の概要

This project focused on improving online and hybrid academic meetings using audio-visual technology and basic technical training. Most of the training and technical operations were carried out by five motivated student volunteers. They operated cameras, microphones, and video switchers with minimal instruction. The students also created training materials and helped improve classroom setups based on user feedback.

**Main activities:** Hands-on training for student volunteers included camera use, framing, and tripod setup; wireless video and PTZ camera control; basic lighting and whiteboard light control during projections; microphone setup and audio gain adjustment.

A complete AV setup was tested: ATEM Mini Pro switcher, 6 wireless microphones, wireless HDMI system for mobile cameras, PTZ camera for wide and remote shots, and one PC used for all slide presentations (PowerPoint and Canva).

Systems were used in real classes and academic events. Feedback was collected from both students and faculty. Training materials were created using Canva and shared online.

**Camera views:** Wide shot showing the classroom and whiteboard; medium shot to show hands and facial gestures.

**Key equipment test:** An M4 iPad Pro was tested for portable production and editing. It worked well for content creation but had limits: USB-C port hub useage and difficulty scaling external display resolution.

**Main results:** Students worked independently with strong motivation. Basic training helped reduce technical mistakes. Feedback improved setups and instruction. Students became more confident using AV tools. AV quality made meetings easier to follow and more engaging.

## 2. 著書・論文・学会発表等

(できるだけご記入ください。査読の有無及び海外研究機関等の研究者との国際共著論文がある場合は必ず記載)

【論文（査読あり）】

なし

【著書・論文（査読なし）】

なし

【学会発表等】

なし

3. 主な経費

Purchased M4 iPad Pro to test as a portable editing and presentation device.

4. その他の特筆すべき事項（表彰、研究資金の受入状況等）

なし

(本文は2ページ以内にまとめること)