

JOOYEONG KIM

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EDUCATION

Gwangju Institute of Science of Technology (GIST)

M.S./Ph.D. in School of Integrated Technology

Advisor: Jin-Hyuk Hong

GPA: 4.07 / 4.5

Gwangju, Korea

Feb. 2019 – Present

Hongik University

B.S. in Computer Engineering

GPA: 4.08 / 4.5

Seoul, Korea

Mar. 2014 – 2019

RESEARCH INTERESTS

Human-Computer Interaction, Accessibility, AI-powered interactive system, Sound Visualization, Natural Language, User modeling

RESEARCH EXPERIENCE

Convergence culture virtual studio for realizing artificial intelligence-based metaverse

Research Project supported by *Ministry of Science and ICT*

Apr. 2022 – Present

Development of Intelligent Exhibition Commentary Platforms for Deaf - Korean Sign Language/Word Translation Systems.

Research Project supported by *Korea Creative Content Agency*

Nov. 2020 – Dec. 2022

Development of content creation and entertainment technologies based on intelligent authoring tool to enhance accessibility of social communication disabilities.

Research Project supported by *Korea Creative Content Agency*

Mar. 2020 – Dec. 2020

PUBLICATIONS

Conference Papers

[c.2] Visible Nuances: A Caption System to Visualize Paralinguistic Speech Cues for Deaf and Hard-of-Hearing Individuals.

JooYeong Kim*, Sooyeon Ahn*, Jin-Hyuk Hong. (*contributed equally)

CHI 2023: ACM Conference on Human Factors in Computing Systems. (acceptance rate: 27.6%)

[c.1] We Play and Learn Rhythmically: Gesture-based Rhythm Game for Children with Intellectual Developmental Disabilities to Learn Manual Sign.

Youjin Choi*, **JooYeong Kim***, ChanWoo Park, JeongYoun Kim, Ji Hyun Yi, Jin-Hyuk Hong. (*contributed equally)

CHI 2022: ACM Conference on Human Factors in Computing Systems. (acceptance rate: 24.7%)

Journal Papers

[j.2] Interactive Description to Enhance Accessibility and Experience of Deaf and Hard-of-Hearing Individuals in Museums.

JooYeong Kim, ChungHa Lee, JuYeon Kim, Jin-Hyuk Hong.
Universal Access in the Information Society.

[j.1] Immersion Measurement in Watching Videos Using Eye-tracking Data.

Youjin Choi*, **JooYeong Kim***, Jin-Hyuk Hong. (*contributed equally)
IEEE Transaction on Affective Computing.

Posters Papers

[p.4] Understanding of Ceramic Image Classification based on Deep Learning.

DaeHo Lee, In-Taek Jung, JunDoo Choi, **JooYeong Kim**, JuYeon Kim, Jin-Hyuk Hong.
KSC 2021: Korea Software Congress.

[p.3] Gesture-based Rhythm Game for Learning Sign Language of Children with Severe Developmental Disabilities.

JooYeong Kim, Youjin Choi, In-Taek Jung, JiHyun Yi, Jeongyeon Kim, Jin-Hyuk Hong.
KSAAC 2020: Korea Society for Augmentative and Alternative Communication.

[p.2] Communication Education System Based on Gesture Recognition for Children with Severe Developmental Disabilities.

Intaek Jung, Youjin Choi, **JooYeong Kim**, Jeongyoun Kim, Jin-Hyuk Hong.
KSC 2020: Korea Software Congress.

[p.1] A Comparative Study on the Performance of Speech Recognition for a Speech Interface in a Filming Environment.

Sanghun Jeon, Youjin Choi, **JooYeong Kim**, Albert Deokyoung Yang, Mun Sang Kim, Jin-Hyuk Hong.
KCC 2019: Korea Computer Congress.

HONORS & AWARDS

Inseong Hong bok-soon Scholarship

Nov. 2022

Scholarship for Women in Science and Technology, GIST

Hongik University Scholarship

Mar. 2015 – Sep. 2018

Merit-based scholarships for 5 semesters

PATENTS

Measuring apparatus and method for visualize voice information.

Jin-Hyuk Hong, **JooYeong Kim**, SooYeon Ahn

Korea Patent Pending No. 10-2023-0101066 (Aug. 2023)

Method and apparatus for measuring degree of immersion for driver or contents viewer.

Jin-Hyuk Hong, **JooYeong Kim**, YouJin Choi

Korea Patent Registration No. KR102419860B1 (Jul. 2022)

TEACHING EXPERIENCE

Designing Artificial Intelligence for Culture Technology Applications

Spring 2022

Teaching Assistant, CT4302-01, Instructor: Jin-Hyuk Hong

- Presented the latest trends in natural language processing for cultural technology and taught coding exercises on basic natural language processing procedures for text generation.

Intelligent Agent

Fall 2020

Teaching Assistant, CT5304 & AI6310, Instructor: Jin-Hyuk Hong

- Developed coding exercises for chapters, created and presented recorded videos of tutorials, and participated in the evaluation of exercises and exams.

ACADEMIC SERVICE

Technical Paper Reviewer – CHI 2023

ADDITIONALL SKILLS

Python, C++, C, C#, R, HTML, CSS, JavaScript, Java, Flask, Android, Vue, Unity, Pytorch

REFERENCES

Jin-Hyuk Hong

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Republic of Korea

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