

Migyeong Yang

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G Google Scholar

PROFESSIONAL EXPERIENCE

Jan 2026 – ing **NAVER AI Lab, NAVER Cloud, Seongnam, Gyeonggi, Korea**
Research Scientist, Human-Computer Interaction Research Group

Sep 2025 – Dec 2025 **Sungkyunkwan University, Seoul, Korea**
Postdoctoral Fellow, Center for Multimedia Intelligence

Mar 2025 – Sep 2025 **NAVER AI Lab, NAVER Cloud, Seongnam, Gyeonggi, Korea**
Intern, Human-Computer Interaction Research Group

Jul 2019 – Aug 2019 **Electronics and Telecommunications Research Institute (ETRI), Pangyo, Gyeonggi, Korea**
Intern, Intelligent Information Convergence Research Lab

EDUCATION

Sep 2020 – Aug 2025 **Ph.D. in Applied Artificial Intelligence**
Sungkyunkwan University, Seoul, Korea
Advisor: Prof. Jinyoun Han
Explainable Human-AI Collaboration System in Art Therapy

Mar 2017 – Aug 2020 **B.A., Media Technology and Robot Engineering**
Hanyang University ERICA Campus, Ansan, Gyeonggi, Korea

PUBLICATIONS

(* = (co-) corresponding author; ** = equal contribution)

— International Conference Papers

- [C9] **Autiverse: Eliciting Autistic Adolescents' Daily Narratives through AI-guided Multimodal Journaling** (cond. accept) [arXiv]
Migyeong Yang**, Kyungah Lee, Jinyoung Han, SoHyun Park, and Young-Ho Kim*
ACM CHI conference on Human Factors in Computing Systems (CHI'26)
- [C8] **CheckDAPR: An MLLM-based Sketch Analysis System for Draw-A-Person-in-the-Rain Assessments** [PDF] [CODE]
Migyeong Yang**, Chaehee Park**, Taeun Kim, Hayeon Song, and Jinyoung Han*
ACM International Conference on Information and Knowledge Management (CIKM'25)

- [C7] **PracticeDAPR: An AI-based Education-Supported System for Art Therapy** [PDF]
Migyeong Yang, Chaehee Park, Jiwon Kang, Jiwon Kim, Taeun Kim, Hayeon Song, and Jinyoung Han*
PACM on Human-Computer Interaction (PACMHCI), 9(2), 2025. Article CSCW149
- [C6] **Counselor-AI Collaborative Transcription and Editing System for Child Counseling Analysis** [PDF]
Hyungjung Lee, Jiyeon Lee, Migyeong Yang, Daeun Lee, Hayeon Song, Youjin Han*, and Jinyoung Han*
Proc. ACM Conference on Intelligent User Interfaces (IUI'25)
- [C5] **CAMEL: Confidence-Aware Multi-Task Ensemble Learning with Spatial Information for Retina OCT Image Classification and Segmentation** [PDF] [CODE]
Juho Jung**, Migyeong Yang**, Hyunseon Won, Jiwon Kim, Jeong Mo Han, Joon Seo Hwang, Daniel Duck-Jin Hwang*, and Jinyoung Han*
2025 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV'25)
- [C4] **Fighting against Fake News on Newly-Emerging Crisis: A Case Study of COVID-19** [PDF] [DATA & CODE]
Migyeong Yang**, Chaewon Park**, Jiwon Kang, Daeun Lee, Daejin Choi, Jinyoung Han*
Companion Proceedings of the ACM Web Conference 2024 (WWW'24)
- [C3] **SceneDAPR: A scene-level free-hand drawing dataset for web-based psychological drawing assessment** [PDF] [DATA & CODE]
Jiwon Kang, Jiwon Kim, Migyeong Yang, Chaehee Park, Taeun Kim, Hayeon Song, and Jinyoung Han*
Proceedings of the ACM Web Conference 2024 (WWW'24)
- [C2] **Magic Brush: An AI-based Service for Dementia Prevention focused on Intrinsic Motivation** [PDF]
Migyeong Yang**, Kyungha Lee**, Eunji Kim, Yeosol Song, Sewang Lee, Jiwon Kang, Jinyoung Han*, Hayeon Song*, and Taeun Kim
PACM on Human-Computer Interaction (PACMHCI), 6 (CSCW2), 2022. Article 448.
- [C1] **VCTUBE: A Library for Automatic Speech Data Annotation.** [PDF]
Seong Choi**, Seunghoon Jeong**, Jeewoo Yoon, Migyeong Yang, Minsam Ko, Eunil Park, Jinyoung Han*, Munyoung Lee, and Seonghee Lee
INTERSPEECH 2020.

— International Journal Papers

- [J6] **“What is your MBTI?”: Predicting the Personality Types using Hierarchical Attention and Graph Learning** [HTML]
Migyeong Yang, Jiwon Kim, Minji Kim, and Jinyoung Han*
Expert Systems with Applications (ESWA), 129295, 2025
- [J5] **Automated Prediction of Pathological Complete Response to Neoadjuvant Chemotherapy in Breast Carcinoma Using Deep Learning on Pretreatment Core Needle Biopsy Samples** [PDF]
Migyeong Yang**, Jinyoung Han**, Hyunseon Won, Hyun-Soo Kim and Sung-Im Do*
ANTICANCER RESEARCH, 45(11), 2025

- [J4] **Developing an AI-based explainable expert support system for art therapy** [PDF]
Jiwon Kim**, Jiwon Kang**, Migyeong Yang**, Chaehee Park**, Taeun Kim, Hayeon Song, and Jinyoung Han*
ACM Transactions on Interactive Intelligent Systems (TiiS), 14 (4), 2025. Article 30.
- [J3] **The effects of working from home on technical efficiency within the service industry: A meta-frontier approach** [PDF]
Migyeong Yang, Soobin Jang, Michelle Goh, and Daeho Lee*
Managerial and Decision Economics, 45 (4), 2024
- [J2] **Prediction of Visual Acuity in Pathologic Myopia with Myopic Choroidal Neovascularization Treated with Anti-Vascular Endothelial Growth Factor Using a Deep Neural Network Based on Optical Coherence Tomography Images** [HTML]
Migyeong Yang**, Jinyoung Han**, Ji In Park, Joon Seo Hwang, Jeong Mo Han, Jeewoo Yoon, Seong Choi, Gyudeok Hwang, and Daniel Duck-Jin Hwang*
Biomedicines, 11 (8), 2023.
- [J1] **Behind the scenes of K-pop fandom: unveiling K-pop fandom collaboration network** [HTML]
Jiwon Kang, Jina Kim, Migyeong Yang, Eunil Park, Minsam Ko, Munyoung Lee, and Jinyoung Han*
Quality & Quantity, 56, 2022.

PATENTS & SOFTWARE

- [P1] **Drawing-Based Assessment Subject Analysis Device, Method, and System**
Inventor: Jinyoung Han, Hayeon Song, Jiwon Kang, Jiwon Kim, Migyeong Yang, Chaehee Park, and Taeun Kim
Application No.: 10-2023-0158921
Filing Date: 2023.11.16.
Republic of Korea
- [S1] **A Deep Learning-Based Fake News Prediction Model for Newly-Emerging Crisis**
Inventor: Jinyoung Han, Migyeong Yang
Registration No.: C-2024-053965
Registration Date: 2024.12.20.
Republic of Korea

RESEARCH PROJECTS

- [R7] **Pioneer Research Group for Socially Responsible Artificial Intelligence**
 - Funded by MIST¹ and IITP² Jul 2024 – Dec 2026
 - Research Associate Jul 2024 – Mar 2025
 - Collaborating with Professor S. Shyam Sundar at Pennsylvania State University
 - Published two conference articles as a first author and one conference article as a third author
- [R6] **Semantic Information Extraction-Networking Convergence Technology for Trustworthy Social Safety Surveillance Systems**
 - Funded by MIST¹ and NRF³ Jul 2024 – Dec 2028

- Research Associate Jul 2024 – Mar 2025
 - Building risk detection datasets for public safety and developing a syncope detection system
 - Published one conference article as a third author
- [R5] **Development of breast cancer anticancer effect prediction model using digital pathology**
- Funded by Songcheon Medical Research Jan 2024 – Dec 2024
 - Research Associate (*in Charge*) Jan 2024 – Dec 2024
 - Developing AI models for predicting pathological complete response to neoadjuvant chemotherapy in breast carcinoma, leveraging whole-slide images
 - Collaborating with Kangbuk Samsung Medical Center (KBSMC)
 - Published one journal article as a first author
- [R4] **Developing an AI-based Expert Support System for Art Therapy**
- Funded by NRF³ Sep 2023 – Mar 2025
 - **Principal Investigator** Sep 2023 – Mar 2025
 - Developing an AI-based expert support system to assist art therapists in analyzing Draw-A-Person-in-the-Rain assessments
 - Collaborating with CHA University
 - Published one conference article
- [R3] **Multi-level CBT content development and user experience analysis for AI-based digital therapy services**
- Funded by ETRI⁴ Jun 2023 – Oct 2023
 - Research Associate (*in Charge*) Jun 2023 – Oct 2023
 - Planning, developing, and validating multi-stage CBT content for cognitive and emotional care in dementia prevention programs, and developing voice agent technology for interactions between users and an AI therapist
 - Collaborating with Samsung Medical Center and CHA University
- [R2] **A Clinical Decision Support System for Retinal Disease Detection with Explainable AI**
- Funded by MIST¹ and NRF³ Mar 2023 – Feb 2027
 - Research Associate (*in Charge*) Mar 2023 – Mar 2025
 - Developing segmentation and captioning models for ophthalmologists based on OCT image dataset
 - Collaborating with Multiple Ophthalmology Clinics
 - Published three conference articles as a first author and one conference article as a third author
- [R1] **Content Planning and Human-AI Interaction Design for AI-Based Digital Therapy Services**
- Funded by ETRI⁴ Jun 2022 – Nov 2022
 - Research Associate (*in Charge*) Jun 2022 – Nov 2022
 - Planning AI-based cognitive and emotional care content for dementia prevention, designing human-AI interaction, and evaluating usability
 - Collaborating with CHA University
 - Published one conference article as a first author

****Sponsor**

- 1 MIST: Ministry of Science and ICT, Korea
- 2 IITP: Institute for Information & Communications Technology Planning & Evaluation, Korea
- 3 NRF: National Research Foundation of Korea
- 4 ETRI: Electronics and Telecommunications Research Institute, Korea

HONORS & AWARDS

Best Researcher Award Dept. of Applied AI, Sungkyunkwan University	Aug 2025
Best Researcher Award Dept. of Applied AI, Sungkyunkwan University	Jan 2025
Best Researcher Award Dept. of Applied AI, Sungkyunkwan University	Sep 2024
Doctoral Student Research Encouragement Grant Funded by the NRF under the Ministry of Science & ICT Awarded for outstanding research potential as a doctoral student	Sep 2023
Best Researcher Award Dept. of Applied AI, Sungkyunkwan University	Aug 2023

TEACHING FELLOW

Teaching Assistant

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|--|--------------------|
| • NH (NongHyup Bank) Data Science, SKKU | Spring/Summer 2024 |
| • AAAI3020: Capstone Project, Undergraduate Course, SKKU | Fall 2023 |
| • AAAI3006: Machine Learning, Undergraduate Course, SKKU | Spring 2023 |
| • CSE2020: Data Structures, Undergraduate Course, HYU | Spring 2019 |

Directed Students

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| • Tutor, Undergraduate Research Program, SKKU | |
| • Toward an AI-Powered Assistant for Play Therapists | Summer 2024 |
| • Developing an AI System for Play Therapist | Fall/Winter 2023 |
| • Developing Object Detection Model for Sketches | Summer 2023 |