

# Migyeong Yang

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## 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

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## 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

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## 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

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- [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

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- [R7] **Pioneer Research Group for Socially Responsible Artificial Intelligence**
  - Funded by MIST<sup>1</sup> and IITP<sup>2</sup> 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 MIST<sup>1</sup> and NRF<sup>3</sup> 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 NRF<sup>3</sup> 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 ETRI<sup>4</sup> 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 MIST<sup>1</sup> and NRF<sup>3</sup> 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 ETRI<sup>4</sup> 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

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

## TEACHING AND SERVICE

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### Teaching Assistant

• 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

### Student Mentoring

• 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