

# Jeonghoon KIM

## PERSONAL DETAILS

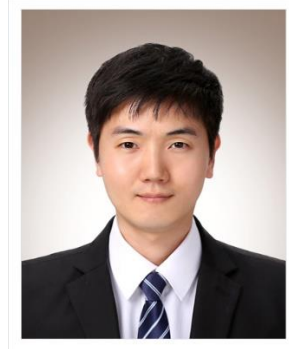
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Assistant Researcher/MS course  
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## RESEARCH INTERESTS

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predicting biological signals(face thermal imaging), behaviors(motion capture data) especially **motor variability**, intentions for humans, and the latest AI techniques such as **Bayesian Continual Learning**, reinforce learning etc.

## EDUCATION

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MS., <b>Artificial intelligence</b> , Dongguk University, Seoul, Korea	Mar 2021 - <i>Current</i>
BS., Electronics Engineering, Inha University, Incheon, Korea	Mar 2002 - Aug 2009

## AI ACADEMY

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Medical <b>Artificial Intelligence</b> Expert Training Course( <b>200h</b> )	Jul 2019 – Dec 2019
<b>Seoul National University Academy</b> of the Fourth Industrial Revolution( <b>AI agent, 876h</b> )	Jun 2018 - Dec 2018

## RESEARCH EXPERIENCE

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Oct 2019 - Jun 2021

**AI** Research in Convergence Research Center for Artificial Intelligence, Dongguk University, Seoul, Korea

Mar 2019 - Aug 2019

**Data** Researcher in the department of nuclear medicine, Asan Medical Center(김재승 책임교수 소속), Seoul, Korea

Mar 2013 - Apr 2015

Researcher in **Patent** Technology(electronic engineering) Survey, WIPS,inc. , Deajeon, Korea

May 2009 - Jun 2011

Researcher in **IC**(integrated circuit) Driving, LX semicon(Silicon Works),inc., Deajeon, Korea

## PUBLICATIONS

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[1] (Poster Paper) **Jeonghoon Kim**, Han-Joon Kim, Kyung-min Lee, Jeh-Kwang Ryu.(2021), Non-Contact Classification of Orthostatic Hypotension through Thermal Imaging Respiration Rate Estimation, KSCS(Korean Society for Cognitive Science)

[2] Shin, M., **Kim, J.**, Choi, S., Heo, Y. J., Kim, D., Lee, M., ... & Ryu, J. K. (2021). CogME: A Novel Evaluation Metric for Video Understanding Intelligence. *arXiv preprint arXiv:2107.09847*.

[3] (구두발표) 신민정, **김정훈**, 최성호, 김동현, 장병탁, 유제광. (2021), 비디오 이해 인공지능의 다차원 성능 평가를 위한 인지 기반 메트릭 구축, KSCS(Korean Society for Cognitive Science)

[4] (Poster Paper) Min Joo Kim, Jeh-Kwang Ryu, Kihyuk Lee, Min-Seong Ha, Soo Mi Nam, **Jeonghoon Kim**, ..., and Jinwook Chung (2021), A Preliminary Study: The Relationships of Typically Developing Children's Fitness and Motor Skill Development

[5] (포스터 논문) 구교석, 이상준, 전상빈, **김정훈**, 유제광. (2021) 인지 및 신체건강을 위한 IoT 및 인공지능 기반 애플리케이션, KSCS(Korean Society for Cognitive Science)

[6] (프로시딩 논문) **김정훈**, 전상빈, & 유제광. (2020). 시각 인공지능을 이용한 고령자 건강행동 모니터링 서비스 개발. *대한전자공학회 학술대회*, 2581-2583.

## PATENT

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국내 특허 출원, (출원번호 : 10-2021-0163667) 혈압 증상 예측 시스템 및 방법(2021.11.24),  
김한준, 유제광, **김정훈**

## PROJECTS

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- Brain Inspired **AI** Framework and Cognitive Convergence R&D pipeline based Health Behavior Monitoring, Diagnosis and Prescription Technology

Research and Development Jan 2020 - Dec 2021

- Development of therapeutic exercise technology for **health promotion** of children with developmental disabilities

Research and Development Jun 2020 - Dec 2020

- Identification of **cognition-brain-body** dynamics in motor skill learning

Research and Development Oct 2019 - Dec 2019

- Interactions and **neural mechanics** between copy of motor command and sensory feedback

Research and Development Oct 2019 - Oct 2019

## LANGUAGES, SKILLS AND ABILITIES

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### Languages

Korean (mother-tongue), English (intermediate, TOEIC 725), **Japanese** (intermediate, JLPT N2.)

### Computer Skills

MATLAB, PYTHON(Tensor Flow, Pytorch, etc.), MS Office etc.

### Hardware & Equipment

KINARM, Thermal imaging camera(SEEK SW-AAA), Motion Capture System(Optitrack13, MS Azure Kinect), IMU(mbeientlab), LiDAR(Intel RealSense)