

Hodam Kim, Ph.D.

ASSISTANT PROFESSOR

Division of Biomedical Engineering, Yonsei University Mirae Campus

Department of Biomedical Engineering, Yonsei University

Room 201, Baekun Hall, 1 Yeonsedae-gil, Heungeop-myeon, Wonju-si, Gangwon-do 26493,

Republic of Korea hodamkim@yonsei.ac.kr +82-33-760-2490 Google Scholar ORCID 0000-0003-0439-6236

ACADEMIC APPOINTMENTS

2025.03 – present Assistant Professor

Division of Biomedical Engineering (Undergraduate) and Department of Biomedical Engineering (Graduate), Yonsei University, Wonju, Republic of Korea

Physiological & On-body Neural Systems Lab

2024.04 – 2025.01 Postdoctoral Fellow

Biomedical Engineering and Imaging Institute / Department of Radiology, Icahn School of Medicine at Mount Sinai, New York, NY, USA

Advanced Wearable Sensors and Electronics Lab (PI: Yun Soung Kim, Ph.D.)

2022.01 – 2024.03 Postdoctoral Fellow

George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Bio-Interfaced Translational Nanoengineering Group (PI: Woon-Hong Yeo, Ph.D.)

EDUCATION

2016.03 – 2022.02 Ph.D. in Electronic Engineering

Department of Electronic Engineering, Hanyang University, Seoul, Republic of Korea

GPA 100/100 · Computational Intelligence & Neural Engineering (CoNE) Lab (PI: Chang-Hwan Im, Ph.D.)

2010.03 – 2015.08 B.S. in Biomedical Engineering

Department of Biomedical Engineering, Hanyang University, Seoul, Republic of Korea

GPA 97.5/100, Summa Cum Laude

RESEARCH INTERESTS

- Artificial intelligence (machine / deep learning) based human– and brain–machine interfaces
 - Development of new biomedical signal processing algorithms
 - Soft, flexible and stretchable electronics · mixed reality (AR/VR) · human body communication
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SKILLS

Research techniques

Biomedical signal processing & feature extraction, machine / deep learning, embedded software development, Android app development, circuit design (Altium, KiCad)

Programming

MATLAB, Python, C, C++, Java, Kotlin, Dart

Languages

Korean (native), English (fluent)

PUBLICATIONS

2026

27. Kang-Min Choi¹, **Hodam Kim**¹, Gamze Kilic-Berkmen, Yunuo Huang, Hyder A. Jinnah^{*}, and Woon-Hong Yeo^{*}, **"Integration of soft portable biosensors and artificial intelligence for automatic detection of abnormal facial movements in blepharospasm,"** *Biosensors and Bioelectronics: X*, 30, 100779, 2026
doi.org/10.1016/j.biosx.2026.100779

2025

26. Hojoong Kim¹, **Hodam Kim**, Seungpyo Kang, Gamze Kilic-Berkmen, Kyoungmin Min, Hyder A. Jinnah^{*}, and Woon-Hong Yeo^{*}, **"Face-Wearable Integrated Bioelectronics for Quantitative, Automated Diagnosis of Blepharospasm,"** *Biosensors and Bioelectronics: X*, 26, 100677, 2025
doi.org/10.1016/j.biosx.2025.100677
25. Jaeho Lee¹, Jimin Lee¹, Yoon Jae Lee, **Hodam Kim**, Youngjin Kwon, Yunuo Huang, Matthew Kuczajda, Ira Soltis, and Woon-Hong Yeo^{*}, **"Flexible Smart Insole and Plantar Pressure Monitoring Using Screen-Printed Nanomaterials and Piezoresistive Sensors,"** *ACS Applied Materials & Interfaces*, 17 (33), 47153–47161, 2025
doi.org/10.1021/acsami.5c08296 · IF 8.2, Q1, 20%
24. **Hodam Kim**¹, Hojoong Kim, Yoon Jae Lee, Hoon Yi, Youngjin Kwon, Yunuo Huang, Lynn Marie Trotti, Yun Soung Kim, and Woon-Hong Yeo^{*}, **"Continuous Real-Time Detection and Management of Comprehensive Mental States Using Wireless Soft Multifunctional Bioelectronics,"** *Biosensors and Bioelectronics*, 117387, 2025
doi.org/10.1016/j.bios.2025.117387 · IF 10.5, Q1, 5%
23. Tae Woog Kang¹, Ka Ram Kim¹, Yoon Jae Lee¹, **Hodam Kim**, Sung Hoon Lee, Youngjin Kwon, Hoon Yi, Hojoong Kim, Hyeon Seok Kim, Alec Harp, Jud Ready, Melinda Millard-Stafford, and Woon-Hong Yeo^{*}, **"Wireless Soft Athlete Bioelectronics for Monitoring Carbon Dioxide Ventilation and Physiological Performance,"** *Advanced Science*, 12 (34), e03880, 2025
doi.org/10.1002/advs.202503880 · IF 14.1, Q1, 5%
22. Jimin Lee¹, Allison Bateman¹, Mi Hyeon Kim¹, Bruno Rigo, **Hodam Kim**, Jaeho Lee, Yun Hyeok Choi, Robert Herbert, Deok Hee Lee, and Woon-Hong Yeo^{*}, **"Non-Surgical, In-Stent Membrane Bioelectronics for Long-Term Intracranial Pressure Monitoring,"** *Advanced Healthcare Materials*, 2404680, 2025
doi.org/10.1002/adhm.202404680 · IF 10.0, Q1, 5%
21. **Hodam Kim**¹, Ju Hyeon Kim¹, Yoon Jae Lee¹, Jimin Lee, Hyojeong Han, Hoon Yi, Hyeonseok Kim, Hojoong Kim, Tae Woog Kang, Suyeong Jeong, Seunghyeob Ban, Byeongjun Lee, Haran Lee, Chang-Hwan Im, Seong Jin Cho, Jung Woo Sohn, Ki Jun Yu, Tae June Kang^{*}, and Woon-Hong Yeo^{*}, **"Motion artifact-controlled micro-brain sensors between hair follicles for persistent augmented reality brain-computer interfaces,"** *Proceedings of the National Academy of Sciences*, 122 (15), e2419304122, 2025
doi.org/10.1073/pnas.2419304122 · IF 9.4, Q1, 10%
20. Kangkyu Kwon¹, Yoon Jae Lee¹, Yeongju Jung, Ira Soltis, Chanyeong Choi, Yewon Na, Lissette Romero, Beomjune Shin, Myung Chul Kim, Nathan Rodeheaver, **Hodam Kim**, Michael S. Lloyd, Ziqing Zhuang, William King, Susan Xu, Seung-Hwan Ko^{*}, Jinwoo Lee^{*}, and Woon-Hong Yeo^{*}, **"Smart Filtering Facepiece Respirator with Self-Adaptive Fit and Wireless Humidity Monitoring,"** *Biomaterials*, 314, 122866, 2025
doi.org/10.1016/j.biomaterials.2024.122866 · IF 12.8, Q1, 5%
19. Tae Woog Kang¹, Yoon Jae Lee¹, Bruno Rigo, **Hodam Kim**, Tommy Wang, Eyas Ayesh, Scott H. Kozin, Frank L. Hammond, and Woon-Hong Yeo^{*}, **"Soft Nanomembrane Sensor-Enabled Wearable Multimodal Sensing and Feedback System for Upper-Limb Sensory Impairment Assistance,"** *ACS Nano*, 19 (5), 5613–5628, 2025
doi.org/10.1021/acsnano.4c15530 · IF 15.8, Q1, 10%

2024

18. Yoon Jae Lee¹, Cheoljeong Park¹, **Hodam Kim**, Seong J. Cho^{*}, and Woon-Hong Yeo^{*}, **"Artificial Intelligence on Biomedical Signals: Technologies, Applications, and Future Directions,"** *Med-X*, 2 (1), 1–30, 2024
doi.org/10.1007/s44258-024-00043-1
17. Ashok Chhetry¹, **Hodam Kim**, and Yun Soung Kim^{*}, **"A Wireless Smart Adhesive Integrated with a Tunable Inverted-F Antenna,"** *Sensors*, 24 (22), 7155, 2024
doi.org/10.3390/s24227155 · IF 3.4, Q2

16. Ka Ram Kim¹, Tae Woog Kang¹, **Hodam Kim**, Yoon Jae Lee, and Woon-Hong Yeo^{*}, **"All-in-One, Wireless, Multi-Sensor Integrated Athlete Health Monitor for Real-Time Continuous Detection of Dehydration and Physiological Stress,"** *Advanced Science*, 11 (3), 2403238, 2024
doi.org/10.1002/advs.202403238 · IF 15.1, Q1, 10%
15. Maria Sattar¹, Yoon Jae Lee, Hyeonseok Kim, Michael Adams, Matthew Guess, Juhyeon Kim, Ira Soltis, Taewoog Kang, Hojoong Kim, Jimin Lee, **Hodam Kim**, Shannon Yee, and Woon-Hong Yeo^{*}, **"Flexible Thermoelectric Wearable Architecture for Wireless Continuous Physiological Monitoring,"** *ACS Applied Materials & Interfaces*, 16 (29), 37401–37417, 2024
doi.org/10.1021/acsami.4c02467 · IF 9.5, Q1, 20%
14. Hoon Yi¹, **Hodam Kim**, Ju Hyeon Kim, Juhee Kim, Hyunjae Lee, Ka Ram Kim, Sanjeet Grewal, William D. Freeman, and Woon-Hong Yeo^{*}, **"Flexible Low-Profile External Ventricular Drain Catheter for Real-Time Brain Monitoring,"** *Biosensors and Bioelectronics*, 255, 116627, 2024
doi.org/10.1016/j.bios.2024.116267 · IF 12.6, Q1, 5%
13. Jimin Lee¹, Ira Soltis, Sayre A. Tillery, Sung Hoon Lee, **Hodam Kim**, and Woon-Hong Yeo^{*}, **"Long-Term Stable pH Sensor Array with Synergistic Bilayer Structure for 2D Real-Time Mapping in Cell Culture Monitoring,"** *Biosensors and Bioelectronics*, 254, 116223, 2024
doi.org/10.1016/j.bios.2024.116223 · IF 12.6, Q1, 5%
12. Gamze Kilic-Berkmen¹, **Hodam Kim**, Dongdong Chen, Cameron I. Yeo, Ashok R. Dinasarapu, Laura Scorr, Woon-Hong Yeo, David A. Peterson, Hilde Williams, April Ruby, Rodger Mills, and Hyder A. Jinnah^{*}, **"An Exploratory, Randomized, Double-Blind Trial Addressing Safety and Efficacy of Dipraglurant for Blepharospasm,"** *Movement Disorders*, 39 (3), 738–745, 2024
doi.org/10.1002/mds.29734 · IF 8.6, Q1, 10%
11. Jimin Lee¹, Hojoong Kim¹, Hyo-Ryoung Lim¹, Yun-Soung Kim¹, Thi Thai Thanh Hoang, Jeongmoon Choi, Gun-Jae Jeong, **Hodam Kim**, Robert Herbert, Ira Soltis, Karam Kim, Sung Hoon Lee, Youngjin Kwon, Yunki Lee, Young Charles Jang, and Woon-Hong Yeo^{*}, **"Large-scale smart bioreactor with fully integrated wireless multivariate sensors and electronics for long-term in situ monitoring of stem cell culture,"** *Science Advances*, 10 (7), eadk6714, 2024
doi.org/10.1126/sciadv.adk6714 · IF 13.6, Q1, 10%
10. **Hodam Kim**¹, Ho-Seung Cha¹, Minseon Kim, Yoon Jae Lee, Hoon Yi, Sung Hoon Lee, Ira Soltis, Hojoong Kim, Chang-Hwan Im^{*}, and Woon-Hong Yeo^{*}, **"AR-Enabled Persistent Human-Machine Interfaces via a Scalable Soft Electrode Array,"** *Advanced Science*, 11 (7), 2305871, 2024
doi.org/10.1002/advs.202305871 · IF 15.1, Q1, 10%

2023

9. Shinjae Kwon¹, Hyeon Seok Kim¹, Kangkyu Kwon, **Hodam Kim**, Yun Soung Kim, Sung Hoon Lee, Young-Tae Kwon, Jae-Woong Jeong, Lynn Marie Trotti, Audrey Duarte, and Woon-Hong Yeo^{*}, **"At-home wireless sleep monitoring patches for the clinical assessment of sleep quality and sleep apnea,"** *Science Advances*, 9 (21), eadg9671, 2023
doi.org/10.1126/sciadv.adg9671 · IF 14.98, Q1, 10%
8. **Hodam Kim**¹, Yoon Jae Lee¹, Garan Byun, Chanyoung Choi, and Woon-Hong Yeo^{*}, **"Advances in Ultrathin Soft Sensors, Integrated Materials, and Manufacturing Technologies for Enhanced Monitoring of Human Physiological Signals,"** *Advanced Electronic Materials*, 9 (9), 2201294, 2023
doi.org/10.1002/aelm.202201294 · IF 7.633, Q1, 20%
7. **Hodam Kim**¹, Younsoo Chae, Suhye Kim, and Chang-Hwan Im^{*}, **"Development of a Computer-Aided Education System Inspired by Face-to-Face Learning by Incorporating EEG-Based Neurofeedback into Online Video Lectures,"** *IEEE Transactions on Learning Technologies*, 16 (1), 78–91, 2023
doi.org/10.1109/TLT.2022.3200394 · IF 4.433, Q1, 15%

2022

6. **Hodam Kim**¹, Suhye Kim, Hongin Kim, YoungSoo Ji, and Chang-Hwan Im^{*}, **"Modulation of driver's emotional states by manipulating in-vehicle environment: Validation with biosignals recorded in an actual car environment,"** *IEEE Transactions on Affective Computing*, 13 (4), 1783–1792, 2022
doi.org/10.1109/TAFFC.2022.3206222 · IF 13.99, Q1, 10%

5. Hodam Kim¹, Dan Zhang, Laehyun Kim, and Chang-Hwan Im^{*}, "Classification of Individual's Discrete Emotions Reflected in Facial Microexpressions Using Electroencephalogram and Facial Electromyogram," *Expert Systems with Applications*, 188, Art. No. 116101, 2022
doi.org/10.1016/j.eswa.2021.116101 · IF 6.954, Q1, 10%

2021

4. Hodam Kim¹ and Chang-Hwan Im^{*}, "Influence of the number of channels and classification algorithm on the performance robustness to electrode shift in steady-state visual evoked potential-based brain-computer interfaces," *Frontiers in Neuroinformatics*, 15, Art. No. 750839, 2021
doi.org/10.3389/fninf.2021.750839 · IF 4.081, Q1, 20%

2019

3. Hodam Kim¹, Laehyun Kim, and Chang-Hwan Im^{*}, "Machine-Learning-Based Detection of Craving for Gaming Using Multimodal Physiological Signals: Validation of Test-Retest Reliability for Practical Use," *Sensors*, 19, Art. No. 3475, 2019
doi.org/10.3390/s19163475 · IF 3.031, Q1, 25%

2018

2. Hodam Kim¹, Jihyeon Ha, Won-Du Chang, Wanjo Park, Laehyun Kim, and Chang-Hwan Im^{*}, "Detection of Craving for Gaming in Adolescents with Internet Gaming Disorder Using Multimodal Biosignals," *Sensors*, 18, Art. No. 102, 2018
doi.org/10.3390/s18010102 · IF 2.677, Q1, 20%

2016

1. Hodam Kim¹, Jeong-Youn Kim, and Chang-Hwan Im^{*}, "Fast and Robust Real-time Estimation of Respiratory Rate from Photoplethysmography," *Sensors*, 16, Art. No. 1494, 2016
doi.org/10.3390/s16091494 · IF 2.677, Q1, 20%

GRANTS & FUNDED PROJECTS

As Principal Investigator

Development of an Emotion- and Intent-Interpreting Sign Language Recognition System Using a Wireless Flexible Electronics-Based Platform for Combined Facial Expression and Hand Gesture Recognition PI
National Research Foundation of Korea (NRF) · 2026.03 – 2029.02

Development of a Wearable System and Analysis Technology for Personalized Multi-Site Biosignal Measurement PI
Yonsei University · 2025.03 – 2028.02

As Researcher

BCI-INSIDE-OUT-EARS: EEG-Acoustic Dual-Signal Sensing and Personalized Real-World Care for Senior Depression RESEARCHER
2026.07 – 2030.12

Bio-Stimulation and Disease Prevention Monitoring Based on Conductive Fibers RESEARCHER
Gangwon RISE · 2026.03 – 2030.02

Deep phenotyping in blepharospasm RESEARCHER
National Institutes of Health (NIH) · 2022.01 – 2024.03

Disposable, soft, home sleep monitoring biopatch for at-home polysomnography RESEARCHER
Biolocity: Guiding Medical Technology to Market · 2022.01 – 2022.08

Development of user-customized neuro-education technologies using human-computer interfaces based on electroencephalography and facial biosignals RESEARCHER
National Research Foundation of Korea (NRF) · 2019.09 – 2023.02

Development of non-invasive integrated BCI software platform to control home appliances and external devices by user's thought via AR/VR interface RESEARCHER

Institute for Information & Communications Technology Promotion (IITP) · 2017.04 – 2023.12

Recognizing facial expressions based on facial electromyogram for interactive VR applications RESEARCHER

Samsung Research Funding & Incubation Center for Future Technology · 2017.09 – 2020.08

Development of a technology for real-time monitoring of craving for internet gaming based on physiological signal analyses RESEARCHER

National Research Foundation of Korea (NRF) · 2015.10 – 2019.09

ACADEMIC SERVICE

2026.08 – 2027.12 Director of Domestic Academic Affairs, Academic Committee

Korea BCI Society

2026.01 – present Committee Member, Academic Affairs (Brain Engineering)

Korean Society of Medical & Biological Engineering

2025.03 – present Editorial Director

Korean Brain Engineering Society

TEACHING

2026-2 Fall 2026

Microprocessors and Laboratory (Undergraduate) · Biosignal Processing for Personalized Healthcare: Applications and Advanced Topics (Graduate, taught in English) · Wearable Healthcare Systems (Graduate)

2026-1 Spring 2026

Computer Programming (Undergraduate) · Engineering Mathematics 2 (Undergraduate) · Career Guidance (Biomedical Engineering) (Undergraduate) · Biosignal Processing for Personalized Healthcare: Fundamentals (Graduate, taught in English)

2025-2 Fall 2025

Microprocessors and Laboratory (Undergraduate) · Biosignals and Systems (Undergraduate)

2025-1 Spring 2025

Computer Programming (Undergraduate) · Advanced Brain-Computer Interfaces (Graduate, taught in English)

PATENTS

10. 이성훈, 여운홍, 김호담, 김가람, 김성은, "Sleep diagnosis system and its operating method,"

KR 10-2024-0182022 · 2024.12.09 · Pending · Wis Medical Inc.

9. 이성훈, 김호담, 김가람, 김성은, "Smart all-in-one patch apparatus and method of operation thereof,"

KR 10-2024-0182021 · 2024.12.09 · Pending · Wis Medical Inc.

8. 이성훈, 김호담, 김가람, "Smart all-in-one head patch apparatus and method of operation thereof,"

KR 10-2024-0156969 · 2024.11.07 · Pending · Wis Medical Inc.

7. Woon-Hong Yeo, Hodam Kim, "Human-machine interfaces via a scalable soft electrode array,"

US 2025/0181172 A1 · 2024.12.02 · Pending · Georgia Tech Research Corporation

6. 임창환, 김정환, 김수혜, 천재훈, 김호담, "A method and device for analyzing concentration type based on electroencephalography using artificial intelligence,"

KR 10-2024-0171693 · 2024.11.27 · Pending · IUCF, Hanyang University

5. 임창환, 김호담, "Method and device for estimating onset time point of muscle movement,"

KR 10-2399318 · 2022.05.13 · Granted · IUCF, Hanyang University

4. 임창환, 차호승, 최성준, 김호담, "Apparatus and method for user authentication using facial EMG by measuring changes of facial expression of HMD user,"

KR 10-2094488 · 2020.03.23 · Granted · IUCF, Hanyang University

3. 임창환, 김호담, "Method and apparatus for detecting craving state for game based on electrooculogram,"
KR 10-2014707 · 2019.08.21 · Granted · IUCF, Hanyang University
2. 임창환, 김호담, "Method for estimating and managing respiratory rate using photoplethysmography,"
KR 10-1837835 · 2018.03.06 · Granted · IUCF, Hanyang University
1. 김선정, 김시형, 김호담, "Fibrous actuator driven by humidity and solvent, manufacturing method thereof and use of the same,"
KR 10-1781599 · 2017.09.19 · Granted · IUCF, Hanyang University

CONFERENCE PRESENTATIONS

International

10. Hodam Kim and Woon-Hong Yeo, "Imperceptible Brain Sensors for Persistent Brain-Computer Interfaces," *US-Korea Conference (UKC) on Science, Technology, and Entrepreneurship*, Atlanta, USA, August 5–9, 2025 (Oral)
9. Hoon Yi, Hodam Kim, and Woon-Hong Yeo, "Wireless soft multifunctional biopatch for preventing heat-related illness of construction workers," *SPIE*, March 25–28, 2024 (Poster)
8. Karam Kim, Hodam Kim, and Woon-Hong Yeo, "Smart Mouthguard and Soft Cardiac Patch for Health Monitoring of Athletes," *SPIE*, March 25–28, 2024 (Poster)
7. Suhye Kim, Hodam Kim, and Chang-Hwan Im*, "Subject-independent EEG-based emotion classification using continuously indexed domain generalization (CIDG)," *44th Annual International Conference of the IEEE EMBS*, Glasgow, United Kingdom, July 11–15, 2022 (Poster)
6. Seonghun Park, Ho-Seung Cha, Jinuk Kwon, Hodam Kim, and Chang-Hwan Im*, "Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain-Computer Interface," *8th International Winter Conference on Brain-Computer Interface*, High1 Resort, Korea, February 26–29, 2020 (Poster)
5. Hodam Kim, Younsoo Chae, and Chang-Hwan Im*, "Validation of Test-Retest Reliability of Multimodal Biosignal-based Craving Detection in Young Adults with Internet Gaming Disorder," *41st Annual International Conference of the IEEE EMBS*, Berlin, Germany, July 23–27, 2019 (Poster)
4. Hodam Kim and Chang-Hwan Im*, "Influence of Slight Changes in Electrode Locations upon the Classification Accuracy of a SSVEP-Based BCI," *SMIT2018-IBEC2018 Joint Conference*, Seoul, Republic of Korea, November 9, 2018 (Poster)
3. Hodam Kim and Chang-Hwan Im*, "Influence of Slight Changes in Electrode Locations upon the Classification Accuracy of a SSVEP-Based BCI," *40th Annual International Conference of the IEEE EMBS*, Honolulu, USA, July 17–21, 2018 (Poster)
2. Hodam Kim, Jihyeon Ha, Wanjo Park, Laehyun Kim, and Chang-Hwan Im*, "Detection of Game Craving in Young Individuals with Internet Gaming Addiction Using Multiple Biosignals," *39th Annual International Conference of the IEEE EMBS*, Jeju Island, Republic of Korea, July 11–15, 2017 (Poster)
1. Hodam Kim, Jeong-Youn Kim, and Chang-Hwan Im*, "Massive EEG Hyperscanning: A New Tool for Social Neuroscience," *8th International IEEE EMBS Conference on Neural Engineering*, Shanghai, China, May 25–28, 2017 (Poster)

Domestic

15. Seoyeon Yoon¹, Jihwan Park¹, and Hodam Kim*, "Development of a Wearable PPG and Skin Temperature Sensing Device for Predictive Closed-Loop Control of Peripheral Blood Flow," *67th Spring Conference, Korean Society of Medical & Biological Engineering*, Republic of Korea, May 8, 2026 (Poster)
14. Gabriel Joseph Mlingi¹ and Hodam Kim*, "Hierarchical 3D Helical CNT Electrode with PEDOT:PSS-PVA/TA Interface for Stable Dry ECG Monitoring," *67th Spring Conference, Korean Society of Medical & Biological Engineering*, Republic of Korea, May 8, 2026 (Poster)
13. Woyesa Addisu Fayera¹ and Hodam Kim*, "Kirigami-Based Ear EEG Patch for Improved Conformability and Stability," *67th Spring Conference, Korean Society of Medical & Biological Engineering*, Republic of Korea, May 8, 2026 (Poster)

12. Miju Chae¹, Sanghyun Kim, and Hodam Kim^{*}, "Multi-Channel Capacitive Wrist-Worn Sensing for Enhanced Spatial Deformation-Based Hand Motion Tracking," *67th Spring Conference, Korean Society of Medical & Biological Engineering*, Republic of Korea, May 8, 2026 (Poster)
11. Hodam Kim, "Persistent and Wearable EEG Technologies: Toward Next-Generation Neurophysiological Monitoring," *12th Workshop and Annual Conference, Korean Society for EEG and Neurophysiology*, Republic of Korea, December 6, 2025 (Oral)
10. Hodam Kim, "Quantitative eye blink monitoring system for automated blepharospasm assessment using wireless wearable bioelectronics," *2025 ITFE Summer Conference, Korea Institute of Information & Telecommunication Facilities Engineering*, Sokcho, Republic of Korea, August 27–29, 2025 (Oral)
9. Hodam Kim, "Real-Time Monitoring of Multidimensional Mental States via Wireless Soft Bioelectronic Systems," *2025 Summer Workshop, Korean Brain Engineering Society*, Jeju, Republic of Korea, July 10–12, 2025 (Poster)
8. Gabriel Joseph Mlingi¹ and Hodam Kim^{*}, "Development of Soft Wireless Wearable Patches for Continuous Monitoring of the Autonomic Nervous System," *65th Spring Conference, Korean Society of Medical & Biological Engineering*, Republic of Korea, May 8, 2025 (Poster)
7. Hodam Kim, "Persistent brain-computer interfaces using soft multifunctional bioelectronics & motion artifact-controlled micro-brain sensors," *2025 Brain and AI Symposium, Korean Brain Engineering Society*, Republic of Korea, February 5, 2025 (Oral)
6. Hodam Kim and Chang-Hwan Im^{*}, "Recognition of user's emotions reflected in fast and subtle expressions using Electroencephalogram and Facial Electromyogram," *2020 Virtual KOSOMBE Conference*, November 11–13, 2020 (Oral)
5. Hodam Kim and Chang-Hwan Im^{*}, "Recognition of user's emotions reflected in fast and subtle expressions using Electroencephalogram and Facial Electromyogram," *7th Symposium of Korean Society for EEG and Neurophysiology*, Online, December 4, 2020 (Poster)
4. Hodam Kim and Chang-Hwan Im^{*}, "Influence of Slight Changes in Electrode Locations upon the Classification Accuracy of a SSVEP-Based BCI," *5th Symposium of Korean Society for EEG and Neurophysiology*, Seoul, Republic of Korea, 2018 (Poster)
3. Hodam Kim, Jeong-Youn Kim, and Chang-Hwan Im^{*}, "Massive EEG Hyperscanning and Interbrain Spectral Synchronization: A New Tool for Social Neuroscience," *2017 KOSOMBE Fall Meeting*, Jeonbuk National University, Republic of Korea, November 10–11, 2017 (Poster)
2. Hodam Kim, Jeong-Youn Kim, and Chang-Hwan Im^{*}, "Massive EEG Hyperscanning: A New Tool for Social Neuroscience," *8th Annual Meeting of Korean Society for Computational Neuroscience*, Seoul, Republic of Korea, August 29, 2017 (Poster)
1. Hodam Kim and Chang-Hwan Im^{*}, "An Improved Method for the Real-time Estimation of Respiratory Rate from Photoplethysmography," *2016 KOSOMBE Spring Meeting*, Bukyeong University, Pusan, Republic of Korea, May 13–14, 2016 (Poster)

HONORS & AWARDS

2026.05 Best Poster Award

Spring Conference, Korean Society of Medical & Biological Engineering
Joint award to advisees Seoyeon Yoon and Jihwan Park, co-first authors on the poster

2020.12 Best Poster Award

Annual Conference of Korean Society for EEG and Neurophysiology

2017.11 Best Poster Award

Annual Autumn Conference of Korean Society of Medical & Biological Engineering

2015 Spring National Science and Engineering Undergraduate Scholarship

Republic of Korea

2014 Fall National Science and Engineering Undergraduate Scholarship

Republic of Korea

2014 Fall Merit Based Scholarship

Hanyang University

2014 Spring National Science and Engineering Undergraduate Scholarship

Republic of Korea

2011 Fall Merit Based Scholarship

Hanyang University

2011 Spring Merit Based Scholarship

Hanyang University

2010 Fall Merit Based Scholarship

Hanyang University