Byung-Ho Kang

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Research Interests Overview

Nanoimprint Lithography and **novel Nanotransfer printing** for **Multimodal sensing applications** such as **Nanophotonic** based **SERS biosensor, Wearable chemical and physical sensors. Nanomaterials** such as **Polymer-based Composites**, **Carbon Nanomaterials**, and **TMDC**, for **Stretchable Strain sensors, Medical Devices**, **Rechargeable Batteries**, and other **Electronic Devices**.

Education

Aug. 2023 ~ Present	**Korea Advanced Institute of Science and Technology (KAIST)** Ph.D. in Mechanical Engineering (Advisor: Prof. Inkyu Park)	Daejeon, Republic of Korea [GPA 3.62/4.3]
Aug. 2023 ~ Present	**Korea Institute of Machinery and Materials (KIMM)** Student researcher in Nanolithography and Manufacturing center	Daejeon, Republic of Korea PI: Dr. Jun -Ho Jeong
Mar. 2021 ~ Feb. 2023	**Soongsil University** M.S. in Mechanical Engineering (Advisor: Prof. Sung-Hoon Park)	Seoul, Republic of Korea [GPA 4.44/4.50]
Mar. 2015 ~ Feb. 2021	**Soongsil University** B.S. in Organic Materials and Fiber Engineering (*Magna Cum Laude)*	Seoul, Republic of Korea [GPA 3.96/4.50]

Professional Experiences

Mar. 2023 ~ Aug. 2023	**Post. Master Researcher** Multi-functional surface and nanocomposite Laboratory	Soongsil University Prof. Sung-Hoon Park
Mar. 2021 ~ Feb. 2023	**Research Assisant** Multi-functional surface and nanocomposite Laboratory	Soongsil University Prof. Sung-Hoon Park
Aug. 2021 ~ Dec. 2021	**Teaching Assistant** Fluid Mechanics Experiment	Soongsil University

Research Experience

[Nanoimprinting based fabrication of functional nanostructures] Aug. 2023 – Present (Ph.D.)

*Advisor: Professor **Inkyu Park**, Department of Mechanical Engineering, KAIST*

*Co-Advisor: Dr. **Jun-Ho Jeong**, Nanolithography and Manufacturing center, KIMM*

- **Fabricate large-area functional nanostructures using nanoimprinting and replica molding**
  - Fabrication of periodic nanostructures using UV-curable polymer molds
  - Deposition and patterning of functional metals and metal oxides on nanostructured polymer molds through PVD (E-beam deposition)
- **Design three-dimensional and multilayer nanostructures through thermal nanowelding**

- Optimization of temperature, pressure, and processing time for metal–metal diffusion bonding

[Nanotransfer Printing transfer onto Nonconventional Interfaces] Aug. 2023 – Present (Ph.D.)

*Advisor: Professor **Inkyu Park**, Department of Mechanical Engineering, KAIST*

*Co-Advisor: Dr. **Jun-Ho Jeong**, Nanolithography and Manufacturing center, KIMM*

- **Develop interface-adaptive nanotransfer printing strategies for biological, liquid, and fibrous surfaces**
  - Water-floating transfer onto curved plant and textile surfaces using surface tension, drying-induced capillary force, and van der Waals adhesion
  - On-liquid deployment of prefabricated nanostructures for direct liquid-phase sensing without a solid receiving substrate
  - Electrospinning-assisted in-situ transfer through controlled interfacial adhesion, focused electric fields, and mechanical interlocking.
- **Optical, chemical, mechanical, and biochemical sensing applications**
  - Demonstration of SERS based plant-surface pesticide, beverage and contaminated-water, and sweat glucose monitoring analysis.
  - Demonstration of wearable hydrogen gas sensor, smart golf gloves for pressure monitoring.

[Nanophotonic SERS Sensors and FDTD Electromagnetic Simulation] Aug. 2023 – Present (Ph.D.)

*Advisor: Professor **Inkyu Park**, Department of Mechanical Engineering, KAIST*

*Co-Advisor: Dr. **Jun-Ho Jeong**, Nanolithography and Manufacturing center, KIMM*

- **Design multilayer Au and Au–Ag plasmonic nanostructures for highly sensitive and spatially uniform SERS detection**
  - Investigate the effects of layer number, nanogap, stacking geometry, and material composition on plasmonic hotspot formation and Raman enhancement
  - Apply optimized nanophotonic structures to trace-molecule detection, pesticide monitoring, liquid classification, and sweat biomarker sensing

[Organic & Inorganic composites for stretchable sensor] Mar. 2021 – Aug. 2023 (M.S.)

*Advisor: Professor **Sung-Hoon Park**, Department of Mechanical Engineering, SSU*

- **Fabricate various CNT/Polymer composite for stretchable strain sensor**
  - Experimental investigation for high stretchability: *PDMS, Eco-Flex, TPU, RET, Natural Rubber*
  - Adopting Secondary fillers: *Nano- or Micro-sized Silica, Lignin, and Liquid Metals*
- **Design the hybrid structure of CNT/Natural Rubber composite**
  - Experimental investigation of the effect of sandwich structure on strain sensing
- **Provide a possible hypothesis on unclear response trend of strain sensor**
  - Negative(or reverse) responses were detected in some cases; *Secondary peak or shoulder peak*
  - Experimental investigation of the factor for the phenomenon in terms of polymer chain mobility
  - Hypothesis: Degree of crosslinking density may affect the trend of piezoresistivity curve

[Implementation of a Predictive Model for the Reinforcement of CNT Composites through MD]

Aug. 2022 – Aug. 2023 (M.S.)

*Collaborative research with Professor **Kyoungmin Min**, Department of Mechanical Engineering, SSU*

- **Effect of post-treatment to CNT composite on Mechanical properties matched with MD**
  - Experimental investigation of the main factor for the phenomenon
  - Match the actual property to expected one that calculated equation via MD

[Next-generation 2D materials & Medical device] Aug. 2021 – Aug. 2023 (M.S.)

*Collaborative research with Professor **Prabhakar R. Bandaru**, Department of Mechanical and Aerospace Engineering, University of California, San Diege (UCSD)*

- **Optimizing Li-ion intercalation exfoliation process of $NbSe_2$ and its application**
  - Adjust the operating parameter to construct the high-yield exfoliation process
  - Application to EMI shielding
- **Newly 2D materials for transistor**
  - Select & research undiscovered 2D materials: *$NbSe_2$ and $SnPSe_3$*
  - Exfoliation via as-optimized process and discover the potential as transistor
- **CNT/RET composite coated on Metal wire for MRI Catheter**
  - Fabricate well-dispersed CNT/RET liquid phase composite
  - Control the optimal viscosity of the dispersion for excellent dip coating on metal wire

*Collaborative research with Professor **June Choi**, Department of Otorhinolaryngology-Head and Neck Surgery, Korea University Ansan Hospital*

- **Graphene based Hearing aid device**
  - Fabricate graphene-based bone conduction hearing aid device
  - Develop hybrid output mode to compensate for single mode's cons

[Chemical Sensor] Mar. 2021 – Aug. 2023 (M.S.)

*Collaborative research with Professor **Joonwon Bae**, Department of Applied Chemistry, Dongduk Woman's University*

- **Synthesize conducting polymer-based composite**
  - Incorporated with Lignin for chemical sensors: *Ppy@lignin and PAN@lignin*
  - Carbonized composites for improving the sensing properties

[Inorganic materials for rechargeable battery] Jun. 2021 – Aug. 2023 (M.S.)

*Collaborative research with Professor **Weonho Shin**, Department of Electronic Materials Engineering, Kwangwoon University*

- **Synthesize of Metal decorated CNT**
  - Found optimal recipe for well-synthesized NiO decorated CNT
- **TMDC based electrode materials for rechargeable battery**
  - Fabricate the active electrode materials: *$Ppy@NbSe_2$* for anode of Li-ion battery and *$NbSe_2$* for one of all-solid-state battery

SKILLS

✓ **Physical Characterization**

- **FE-SEM**, **EDS**, and **AFM** for morphology analysis such as dispersion, lateral size, and thickness
- **Raman Spectroscopy** for determine the characteristic peaks of Carbon materials and 2D material
- **Surface Enhanced Raman Spectroscopy** for detect the trace level of molecules
- **BET** for measure the specific surface area and pore distribution of Lignin and its composite
- **FT-IR** for structural analysis and **DLS** for measure size distribution of Lignin after external treatment
- **UV-vis spectroscopy** for measure the concentration of 2D material

✓ **Software/Simulation**

- **COMSOL Multiphysics** simulations of mechanical deformation and capillary-driven liquid rise in nanostructures

- **Ansys Lumerical FDTD simulations** to quantify electric-field enhancement and hotspot distributions in plasmonic nanostructures

✓ **Extra Skills: Nanoimprinting, PVD (E-beam deposition), Nanotransfer printing (nTP), UTM**, OM, Successful Dispersion via **3-roll Milling** Machine for high-viscosity state and Sonication for low-viscosity state, **XYZ stretching Machines** for tracking dynamic change of electrical resistance, **Dip Coating**, **Li-ion Intercalation** assisted Exfoliation process, **Screen Printing**, and other Optimizing Experimental setups.

Honors & Awards

July 2026	**Best Poster Award,** Nano Korea 2026
Mar 2026	**Best Paper Award,** Spring conference of Korean Sensors Society
Dec 2024	**Best Paper Award,** International Symposium of Micro & Nano Manufacturing (ISMNM) 2024
July 2024	**Best Student Paper Award (Silver prize),** Nano Korea 2024
Jun 2024	**Best Student Paper Award (First prize),** Asia-Pacific Conference on Transducers and Micro-Nano Technology (APCOT) 2024
May 2023	**Excellent Paper Presentation Award,** Korean Institute of Electrical and Electronic Materials Engineers (KIEEME)
Mar 2021 ~ Dec 2022	**Entrance Scholarship,** Soongsil University
Mar 2021 ~ Dec 2022	**Research Assistant Scholarship,** Soongsil University
May 2022	**Excellent Paper Presentation Award,** Korean Society of Industrial and Engineering Chemistry (KSIEC)
Sep 2021	**Teaching Assistant Scholarship,** Fluid Mechanics Experiment, Soongsil University
Feb 2021	**Magna Cum Laude,** Soongsil University, Rank: 8/103
Sep 2018 ~ Jun 2019 Sep 2020	**Scholarship for Academic Excellence,** Soongsil University

Leadership Activities

Mar 2019 ~ Jun 2019	**Central Social Club *'Soongsil Child welfare',*** President	Soongsil University
Sep 2018 ~ Dec 2018	**Central Social Club *'Soongsil Child welfare',*** Vice President	Soongsil University
Sep 2018 ~ Dec 2018	**Department Social Club '*Team Organic Basketball',*** President (Captain)	Soongsil University

Conferences

2026	**The International Nanotech conference (Nano Korea),** 2026, Ilsan, Korea (1 Poster)
	The Society of Micro and Nano Systems (SMNS, KMEMS), 2026, Jeju, Korea (1 Oral)
	The Spring conference of Korean Sensors Society, 2026, Seoul, Korea (1 Poster)
2025	**The Fall meeting Materials Research Society (MRS),** 2025, Boston, USA (1 Poster)
	The Society of Micro and Nano Systems (SMNS, KMEMS), 2025**,** Jeju, Korea (1 Poster)
	The International Nanotech conference (Nano Korea) 2025**,** Ilsan, Korea (1 Oral)
	The Global Conference of Innovation Materials (GCIM), 2025**,** Jeju, Korea (1 Poster)
	The International Meeting on Information Display (IMID), 2025, Busan, Korea (1 Poster)
2024	**International Symposium of Micro & Nano Manufacturing (ISMNM),** 2024, Jeju, Korea (1 Poster)
	International Conference on Active Materials and Soft Mechatronics (AMSM), 2024, Songdo, Korea (1 Poster)
	The International Nanotech conference (Nano Korea), 2024**,** Ilsan, Korea (1 Oral)
	The Spring conference of Korean Sensors Society, 2024, Yeosu, Korea (1 Poster)
	Asia-Pacific Conference on Transducers and Micro-Nano Technology (APCOT), 2024,

Singapore, Singapore (1 Oral)

The Korean Society of Mechanical Engineers (KSME), 2024, Gyeongju, Korea (1 Poster)

2023 **33rd Anniversary World Congress on Biosensors (Biosensors),** 2023, Busan, Korea (1 Poster)

Korean Institute of Electrical and Electronic Materials Engineers (KIEEME), 2023, Pyeongchang, Korea (1 Oral)

2022 **Materials Research Society of Korea (MRS-K),** 2022, Jeju, Korea (1 Oral)

Materials Research Society of Korea (MRS-K), 2022, Samcheok, Korea (1 Poster)

Korean Society of Industrial and Engineering Chemistry (KSIEC), 2022, Jeju, Korea (1 Poster; Excellent Paper Presentation Award)

2021 **Korean Carbon Society,** 2021, Gwangju, Korea (1 Poster)

The International Nanotech conference (Nano Korea), 2021, Ilsan, Korea (1 Oral)

Korean Society of Mechanical Engineers (KSME), 2021, Busan, Korea (1 Oral)

Korean Society of Industrial and Engineering Chemistry (KSIEC), 2021, Busan, Korea (1 Poster)

PUBLICATIONS

#8 1st author (updated Aug 2026)

Journal

2026

27. B. Kang, K. Kim, J. Gu, J. Ahn, Y. Jeong, J-H. Ha, S. Jeon, S. Hwang, **B-H. Kang**, J. Ahn, J-A. Choi, M. Kim, Y. Jung, J-H. Jeong*, J.G. Ok*, and I. Park*, "A Direction-Aware Piezo-Transmittance Strain Sensor via Engineered Alignment of Carbon Nanotubes (CNTs)" **Advanced Materials Technologies** (2026), [IF=6.0, JCR: 30.5%]

26. J. Yang, M. Choi, J-H. Ha, J. Ahn, S.H. Hwang, S. Jeon, D. Kim, J. Jeong, M. Kim, H. Lim, **B-H. Kang**, J-A. Choi, B. Kang, H. Kim, J. Ahn*, J-H. Jeong*, "Unclonable Three-Level Holograms for Two-Factor Visual Authentication via One-Step Cascade-Nanostructure Imprinting" **Nano Letters** (2026), [IF=9.1, JCR: 14.1%]

25. **B.-H. Kang,** J. -H. Ha, Y. Kwon, S. Jeon, D. Lee, B. Kang, S. H. Hwang, J. Ahn*, J-H. Jeong*, I.Park*. "Versatile water-floated nanostructures for three-dimensional nanotransfer printing." **Nature Communications** (2026), 17, 4588 [IF=18.1, JCR: 5.4%] **[First author]**

2025

24. Y-W. Lee, S. Jeon, Y-J. Song, J-H. Ha, S-H. Hwang, **B-H. Kang**, S.A. Park, D. Kim, H-Y. Kim, Y-S. Koo, D-Y. Ryu, Y. Yoon, and J-H. Jeong*. "Self-Applicable Thermostable Heterogeneous Microneedle Patch for Recombinant Protein Vaccination against Botulinum Neurotoxin Serotype A." **ACS Applied Materials & Interfaces** 18(2), 3454–3466 (2025) [IF=7.8, JCR: 17.9%] / 2024 inform

23. J-H. Ha, Y-W. Lee, S.H. Hwang, D. Kim, B-H. Kang, Y.J. Song, J. Won, M. Moon, Y. Yoon, S.A. Park, S. Jeon*, W. Kang*, and J-H. Jeong*. "Bee Stinger-Like Wearable Electrospun Web Microneedles for Sustained CNS Drug Delivery." **Advanced Healthcare Materials** 14(28), 2501371 (2025). [IF: 11.0, JCR: 12.4%]

22. J. -H. Ha, S. Jeon, Y. W. Lee, S. H. Hwang, **B.-H. Kang**, Y. J. Song, J. S. Lim, H. Kim,Y. Yoon*, and J-H. Jeong* "Antibody-Integrated Solid-to-Gel Microfilm for Protection Against Botulinum Neurotoxin Type A." **Gels** 11(10), 777 (2025). [IF: 6.4, JCR: 18.23%]

21. **B.-H. Kang‡,** S. Shin‡, Z. H. Momin, D. Y. Kim, K. Nam, W. J. Kim, J. Oh, D. W. Lee, J-M. Oh, J. Bae*, W. H. Shin*, S-H.Park* "Hybrid porous carbon/polypyrrole composite from recycled coffee grounds as an active electrode material for lithium-ion batteries." **Journal of Power Sources** 641, 236894 (2025). [IF: 8.4, JCR: 21.2%] **[Co-first author]**

20. D. K. Lee, O. Hur, E. Kim, **B.-H. Kang**, S. H. Kang, K. Min, S. H. Park. "Unveiling unexpected mechanical softening/stiffening in carbon nanotube composites under cyclic deformation: experiments and predictive modeling." **Advanced Composites and Hybrid Materials** 8(2), 194 (2025). [IF: 15.5, JCR: 4.3%]

19. D. K. Lee‡, H. Baek‡, **B.-H. Kang‡**, J. Yoo, K. W. Nam, S. H. Lee, I. Sohn, E. Han, J. Choi*, S-H. Park*. "Enhancing sound pressure output in graphene-based hybrid bone conduction hearing aids through

electromagnetic and electrostatic integration." **Nano Research** 18(4), 94907258 (2025). [IF: 9.4, JCR: 17.2%] **[Co-first author]**

2024

18. J. Ahn, Y. Jeong, M. Kang, J. Ahn, S.P. Sasikala, I. Yang, J-H. Ha, S.H. Hwang, S. Jeon, J. Gu, J. Choi, **B-H. Kang**, S.O. Kim, S. Kim, J. Choi, J-H. Jeong*, and I. Park* "Nanoribbon yarn with versatile inorganic materials." **Small** 20(38), 2311736 (2024). [IF: 12.1, JCR: 9.0%]

17. D. K. Lee, J. Yoo, **B.-H. Kang**, S. H. Park. "Effects of the Number of Graphene Layers and Graphene Diaphragm Size on High Frequency Electrostatic Speakers." **Electronic Materials Letters** 20(5), 621–626 (2024). [IF: 2.6, JCR: 50.8%]

16. J-H. Ha, J. Ko, J. Ahn, Y. Jeong, J. Ahn, S. Hwang, S. Jeon, D. Kim, S.A. Park, J. Gu, J. Choi, H. Han, C. Han, B. Kang, **B-H. Kang**, S. Cho, Y.J. Kwon, C. Kim, S. Choi, G-D. Sim, J-H. Jeong*, and I. Park*. "Nanotransfer printing of functional nanomaterials on electrospun fibers for wearable healthcare applications." **Advanced Functional Materials** 34(33), 2401404 (2024). [IF: 19.0, JCR: 5.8%]

15. S. Cho, J-H. Ha, J. Ahn, H. Han, Y. Jeong, S. Jeon, S. Hwang, J. Choi, Y.S. Oh, D. Kim, S.A. Park, D. Lee, J. Ahn, B. Kang, **B-H. Kang**, J-H. Jeong*, and I. Park*. "Wireless, Battery-Free, Optoelectronic Diagnostic Sensor Integrated Colorimetric Dressing for Advanced Wound Care." **Advanced Functional Materials** 34(29), 2316196 (2024). [IF: 19.0, JCR: 5.8%]

14. J. Ahn, S.P. Sasikala, Y. Jeong, J.G. Kim, J-H. Ha, S.H. Hwang, S. Jeon, J. Choi, **B-H. Kang**, J. Ahn, J-H. Jeong*, S.O. Kim*, and I. Park*. "High-Energy-Density fiber supercapacitors based on transition metal oxide nanoribbon yarns for comprehensive wearable electronics." **Advanced Fiber Materials** 1–15 (2024). [IF: 21.3, JCR: 1.6%]

13. K. W. Nam, O. Hur, **B.-H. Kang**, S. H. Park*. "Comparison of piezoresistive sensitivity based on the size of silica as secondary filler on hybrid CNT composites." **Composites Science and Technology** 253, 110642 (2024). [IF: 9.8, JCR: 13.2%]

12. O. Kwon, S. Yang, **B.-H. Kang**, J. Park, G. Park, J. Baek, H. M. Oh, Y. So, S. H. Park, Y. Jeong*, and T. Park*. "Improved performance of high-temperature proton exchange membrane fuel cells by purified CNT nanoporous sheets." **Advanced Functional Materials** 34(7), 2309865 (2024). [IF: 19.0, JCR: 5.8%]

11. J. Oh, K. W. Nam, W. J. Kim, **B.-H. Kang**, S. H. Park*. "Flexible dry electrode based on a wrinkled surface that uses carbon nanotube/polymer composites for recording electroencephalograms." **Materials** 17(3), 668 (2024). [IF: 3.2, JCR: 51.3%]

2023

10. **B.-H. Kang,** D. K. Lee, D. Kim, O. N. Hur, C. S. Lee, J. Bae, S. H. Park*. "High-yield exfoliation of $NbSe_2$ through optimized lithium-ion intercalation and its application in electromagnetic-interference shielding." **Applied Surface Science** 637, 157954 (2023). [IF: 6.3, JCR: 10.9%] **[First author]**

9. O. Hur, **B.-H. Kang**, S. H. Park*. "Optimization of electrical and mechanical properties of a single-walled carbon nanotube composite using a three-roll milling method." **Materials Chemistry and Physics** 309, 128354 (2023). [IF: 4.3, JCR: 34.7%]

8. W. J. Kim, K. W. Nam, **B.-H. Kang**, S. H. Park*. "Piezoresistive effect of conductive and non-conductive fillers in bi-layer hybrid CNT composites under extreme strain." **Materials** 16(18), 6335 (2023). [IF: 3.1, JCR: 47.3%]

7. **B.-H. Kang**‡, S. Shin‡, K. Nam, J. Bae, J. Oh, S. Koo, H. Sohn, S. Park*, W. Shin* (‡equally contributed), "Exfoliated $NbSe_2$ Nanosheet@Polypyrrole Hybrid Nanocomposites as a High Performance Anode of Lithium-Ion Batteries," ***Journal of Materials Chemistry A*** *11(35), 19083–19090 (2023).* [IF: 10.8, JCR: 10.4%] **[Co-first author]**

6. **B.-H. Kang**‡, J. Hong‡, O. Hur, M. Kang, J. Moon, J. Seo, G. Han, S. Shin, C. Lee*, S. Park*, J. Bae* (‡equally contributed), "Preparation of Carbonaceous Monolith from Polyacrylonitrile@Lignin Hybrid Composite and Its Sensing and Adsorption Capabilities," ***Korean Journal of Chemical Engineering*** *40(6), 1510–1517 (2023).* [IF: 3.0, JCR: 43.5%] **[Co-first author]**

2022

5. D. Kim, K. Nam, **B.-H. Kang**, S.Park*, "Soft Multifunctional Porous Sponge Sensor for Pressure and Strain Using Liquid Metal/Polydimethylsiloxane with Silver-Nanowire-Coated Composite," ***Micromachines,*** 2022, 13 (11), 1998 [IF: 3.4, JCR: 62.5%]

4. **B.-H. Kang**, I. Jeong, S. Park *, "Design of a Smart Conducting Nanocomposite with an Extended Strain Sensing Range by Conjugating Hybrid Structures," ***Polymers,*** 2022, 14 (13), 2551 [IF: 5.0, JCR: 18.0%] **[First author]**

3. O. Hur, S. Park, S. Park, **B.-H. Kang**, C. Lee, J. Hong, S. Park, J. Bae *, "A study on fabrication of polypyrrole@lignin composite and electrical sensing and metal ion adsorption capabilities," ***Materials Chemistry and Physics,*** 285 (2022), 126166 [IF: 4.6, JCR: 37.1%]

2. **B.-H. Kang**, O. Hur, S. Hong, S. Park*, "Electrical and Mechanical Properties of Polymer Composite through the Use of Single-Walled Carbon Nanotube and Multi-Walled Carbon Nanotube", ***Korean Journal of Metals and Materials***, 2022, 60, 9, 694-700 [IF: 1.2, JCR: 85.6%] **[First author]**

1. D. Lee, J. Yoo, H. Kim, **B.-H. Kang**, S. Park*, "Electrical and Thermal Properties of Carbon Nanotube Polymer Composites with Various Aspect Ratios," ***Materials*** 2022, 15 (4), 1356 [IF: 3.4, JCR: 50.4%]

Patent

2. I. Park, J-H. Jeong, J. Ahn, **Byung-Ho Kang**, S. Jeon, S. H. Hwang "Versatile water-floated nanostructures for three-dimensional nanotransfer printing," ***PCT Patent Application (Pending)***

1. I. Park, J-H. Jeong, J. Ahn, **Byung-Ho Kang**, S. Jeon, S. H. Hwang "Versatile water-floated nanostructures for three-dimensional nanotransfer printing," ***Korea Patent Application (Pending)***

Voluntary/ Extracurricular Activities

◆ Global Volunteering Program, SSU — Jan. 2020, West Bengal, India

- Took care of kids aged range from 5 to 13 at Living Water school in India (for two weeks)
- Education volunteering: physical education classes and language education classes
- Cultural Exchange: Taekwondo (Korean conventional martial arts) and chorus.

◆ Education volunteering for children Cheongwoon Regional Child Welfare Center — Oct. 2018 – Jan. 2019, Seoul, South Korea

- Taught math and science to elementary students who could not receive private education after school, 6 times for 3 hours.
- Learning and living guidance for children

◆ Education volunteering for children, Daebang General Social Welfare Center — Mar. 2015 –Apr. 2016, Seoul, South Korea

- Taught math and science to elementary students who could not receive private education after school, every week for 2 hours.
- Learning and living guidance for children

◆ Military Service — Apr. 2016 – Jan. 2018, Seoul, South Korea

- Belonged to Republic of Korea Army

Personal Interests

- Playing individual sports: Hiking and CrossFit
- Playing team sports: Basketball
- Marvel movies fan, especially Spider-Man
- Traveling, driving, human networking, perfume and coffee-snob

Reference Contact

- **Advisor: Prof. Inkyu Park**
- Email: Inkyu@kaist.ac.kr
- Phone: 010-2412-7337

- **Advisor: Prof. Sung-Hoon Park**
- Email: leopark@ssu.ac.kr
- Phone: 010-5894-2219

- **Advisor: Dr. Jun-Ho Jeong**
- Email: jhjeong@kimm.re.kr
- Phone: 010-8361-4918