



## Hyeonbeen Lee

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### PERSONAL INFORMATION

<b>Legal Name:</b>	Hyeonbeen Lee	<b>Date of Birth:</b>	July 4th, 1996
<b>Nationality:</b>	Republic of Korea (South)	<b>Address:</b>	6-3, Hoenamu-ro 39gil, Yongsan-gu, Seoul, South Korea
<b>Military service:</b>	Honorably discharged, Marine Corps Sergeant (May 2017~Feb. 2019)	<b>Career Objective:</b>	-

### EDUCATION

**Banpo High School**, Science-specialized Track Mar. 2012 — Feb. 2015  
**Kyung Hee University**, Dept. of Mechanical Engineering Mar. 2015 — Feb. 2022  
Bachelor of Engineering (Supervisor: Shin-kyu Jeong, Jin-gyun Kim) GPA(Major): 3.84/4.5, GPA: 3.87/4.5  
Thesis: *'Data-driven aerodynamic coefficient prediction using  
deep neural network and PARSEC airfoil parameterization'*  
**Kyung Hee University**, Dept. of Mechanical Engineering Mar. 2022 — Feb. 2024  
Master of Engineering (Supervisor: Jin-gyun Kim) GPA: 4.33/4.5  
Thesis: *'Composite neural network with differential propagation  
for modeling impulsive nonlinear dynamic systems'*

### CAREER

**8DIVISION**, Flagship Store Staff Feb. 2024 — Present

- In-store sales
- **International clients communication and supportive interpretation**
- **Creative SNS marketing (@8division, @8division\_journal)**
- Fitting model and in-house stylist
- Buying and visual MD support
- Robotic process automation
- Sales analysis and visualization

**Freelance model** May 2024 — Present

- @gyoureekim SS2025 fitting model for London Fashion Week
- @san263\_1 FW2024/SS2025 fitting model
- @8division, @8division\_journal store fitting model
- @armed\_dept FW2024 Lookbook
- Personal works with photographers: @chtewon, @wyw\_kiki98, @leejaehoon, @jngsnghun
- Magazines: @pap\_magazine, @prism.mag
- Music videos: SEVENTEEN - Eyes on You (2024), creespy - You're Just My Type (2024)

### LANGUAGE

- Korean
  - Mother tongue
- English
  - **Certification - New TEPS 513/600** (equivalent to 980/990 in ETS TOEIC)
  - **Certification - ACTFL OPI English AH(Advanced High)**
  - Expertised communication ability at near-native level

- **Rich social experiences with global fashion creatives and designers**
- Published **two papers for international science journals** as first and co-author
- Abundant experiences at **international conference presentations, research meetings, and email communication in expert level**
- Japanese
  - Able to speak daily-level conversations
  - Understands movies and TV shows in Japanese without subtitles

## GLOBAL NETWORKING

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Possesses **communication, collaboration and socialization experiences with global fashion brands and creatives listed below:**

### English speakers

- |                            |                            |                                     |
|----------------------------|----------------------------|-------------------------------------|
| • Stefan Cooke & Jake Burt | • SABUKARU Magazine        | • Betsy Johnson (in support of OSS) |
| • Thomas Tistounet (RIER)  | • Pepe (ThinkingMU)        | • Jonathan Choi (FFFPPostalService) |
| • Luca Hamers              | • GR10K                    | • Max Schaefer (Untitled Showroom)  |
| • Bonnie & Clyde           | • Samutaro                 | • Hiking Patrol                     |
| • J.L-A.L.                 | • Stockholm Surfboard Club | • JUS Stockholm                     |

### Japanese speakers

- |                               |                       |                        |
|-------------------------------|-----------------------|------------------------|
| • Nepenthes                   | • KAMIYA              | • Kota Kawai (PickYou) |
| • COMOLI                      | • Ken Mitsuishi       | • NorthWorks           |
| • Manabu Kamo (Huntism Tokyo) | • OURs (YouTube OURs) | • Junction JP          |
| • Koji Yoshimura (HLVTC)      |                       |                        |

## PERSONAL ANALYSIS

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### Strength

- Smooth communication ability
  - **Intense fashion sales communication experiences with international clients**
    - \* See linked posts: [1],[2],[3],[4],[5],[6],[7],[8],[9] (in chronological order)
    - \* I took the majority of the store visitor snaps above, based on my active sales communication skills and fluent English and Japanese.
    - \* My clients include internationally-renowned fashion designers, influencers, and artists.
  - Builds **continuing and expanding friendship with clients**
    - \* From the first meet at the store, I develop relationship out at the store such as:
    - \* **Case (1)** Got modeling works; from Bianco and Luca for Luca Hamers; from Jonathan for SAN263-1 and Minjoo;
    - \* **Case (2)** Conducted cultural research support for MORNING Studio London and Ben Greenwood
    - \* **Case (3)** Supported English-Korean interpretation for Betsy Johnson and OSS Team Seoul
    - \* **Case (4)** Longing friendship with Stefan Cooke
  - **Smooth communication across all teams** in current team (8DIVISION)
  - Language never matters
- Computer and data specialist with Master's degree in AI research
  - **Expert-level data analysis, processing, visualization skills with clear presentation skills.** Proven from **numerous successes in academic conferences and publications, research projects, and governmental grants.**
  - Friendly to all types of computer or data-related tasks
  - Utilization of my expertise in 8DIVISION is as below:
    - \* **Case (1)** For store sales report, I have visualized 3-year sales data with advanced visualization and analysis techniques such as trend extraction, histogram and bar plots, and category-wise classifications.
    - \* **Case (2)** To resolve redundant robotic processes in registering new products using store POS, I automated the whole registration process using Python. This dramatically reduced human power consumption for pop-up store preparations.

- \* **Case (3)** To further enhance the usability of the POS from **Case (2)**, I directly communicated with POS developers with detailed requirements using my R&D knowledge, which greatly shortened scheduled update due as a result.
- \* **Case (4)** Enhanced workflow continuity and efficiency by introducing collaboration tools like Notion, Microsoft365, and Google Sync which were never utilized before.
- Sensitive to trends with a creative mindset
  - Creative directing for @8division\_journal and @8division
    - \* **Case (1)** After taking charge of @8division\_journal account management, proactively posted creative stories and reels with fresh ideas using in-store items. This **raised followers from 5,700 to 7,000, reach 455%, and engagement 425%.**
    - \* **Case (2)** See linked posts for detail: [1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12]
  - With a long-term interest in fashion, I’m sensitive to trends and have a fruitful understanding of overall culture
- Fluent English and Japanese skills
  - Capable of performing all strengths above without language problems.

## Weakness

- Attempts to change existing workflow
  - Once got feedback regarding my multiple attempts to further improve the established workflow
  - After receiving the feedback, I pay more caution to better respect established procedures and pipelines

## PUBLICATIONS

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1. **H. Lee**, J. Han, T. Yeo, J.G. Kim. “Stochastic Fourier Transformer for interpretable real-time real-world robot force forecasting”, in preparation.
2. **H. Lee**, S. Han, H.S. Choi, J.G. Kim (2024). “cNN-DP: Composite neural network with differential propagation for impulsive nonlinear dynamics”, *Journal of Computational Physics (Q1, JCR-IF Top 4.5% in Physics, Mathematical)*, 112578.
3. S. Han, G.E. Jeong, **H. Lee**, W.S. Choi, J.G. Kim (2023), “Multi-body dynamics model for spent nuclear fuel transportation system under normal transport test conditions”, *Nuclear Engineering and Technology (Q1, JCR-IF Top 3.5% in Nuclear Science & Technology)*, 55(11), 4125-4133.

## PROJECTS

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Mar. 2022 — Oct. 2024	Deep-learning based reaction force and torque prediction model development for underwater ground cutting robot using experimental measurements and dynamic simulation data, Korea Research Institute of Ships and Ocean Engineering (KRISO). ( <a href="https://github.com/hyeonbeenlee/TimeSeriesSeq2Seq">github.com/hyeonbeenlee/TimeSeriesSeq2Seq</a> )
Nov 2021 — Jan. 2024	cNN-DP: Composite neural network with differential propagation for impulsive nonlinear dynamics, Modeling & Simulation Lab. ( <a href="https://github.com/hyeonbeenlee/cNN-DP">github.com/hyeonbeenlee/cNN-DP</a> )
Sep. 2021 — Jan. 2024	Metamodel generation and evolution procedures for flexible multibody dynamics, FunctionBay Inc.
Mar. 2023 — Jun. 2023	Segment Anyone: Fine-tuned Segment-Anything-Model (SAM) for human-collaborative robots, Kyung Hee University Dept. of Artificial Intelligence. ( <a href="https://github.com/hyeonbeenlee/segment-anything-fine-tuning">github.com/hyeonbeenlee/segment-anything-fine-tuning</a> )
Dec. 2022 — Jun. 2023	RecurDyn Automation using Python, Modeling & Simulation Lab. ( <a href="https://github.com/hyeonbeenlee/RecurDynPython">github.com/hyeonbeenlee/RecurDynPython</a> )
Sep. 2021 — Oct. 2022	Development of ground-sea transportation test simulation model using multibody dynamics and DNN-based metamodel, Korea Atomic Energy Research Institute (KAERI).

## CONFERENCES

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Jun. 9 2024 Madison, Wisconsin, USA	J. Han, J.B. Han, S.S. Kim, M.H. Kim, Y.H. Kim, <b>H. Lee</b> , J.G. Kim, T.K. Yeu. “Digital twin model of underwater construction robot for real-time grinding simulation”, 7th International Conference on Multibody System Dynamics.
Nov. 1 2023 Incheon, South Korea	<b>H. Lee</b> , J. Han, T. Yeo, J.G. Kim. “Real-time multi-horizon reaction force forecasting of ocean robot using interpretable Transformer”, Annual Conference, Korean Society of Mechanical Engineers (Oral Presentation).
May 18 2023 Busan, South Korea	<b>H. Lee</b> , S. Han, H.S. Choi, J.G. Kim. “Meta-modeling of nonlinear impulsive dynamics using composite neural network model with differential propagation”, Conference on Engineering Reliability, Korean Society of Mechanical Engineers (Oral Presentation).
Mar. 23 2023 Jeju, South Korea	<b>H. Lee</b> , S. Han, H.S. Choi, J.G. Kim. “Meta-modeling of nonlinear impulsive dynamics using composite neural network model with differential propagation”, Conference on Dynamics and Control, Korean Society of Mechanical Engineers (Oral Presentation).
Feb. 16 2023 Austin, Texas, USA	<b>H. Lee</b> , S. Han, H.S. Choi, J.G. Kim. “Composite neural network framework for modeling impulsive nonlinear dynamic responses”, 41th International Modal Analysis Conference (IMAC) (Oral Presentation).
Dec. 4 2022 Jeju, South Korea	<b>H. Lee</b> , S. Han, G.E. Jeong, J.G. Kim. “Development of multibody dynamics trailer model using normal transportation test data and DNN based surrogate model generation”, Fall conference, Korean Society for Noise and Vibration Engineering (Oral Presentation).

## AWARDS AND CERTIFICATES

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• <b>New TEPS:</b> 513/600 (equivalent to TOEIC 980/990)	No.0111736, Valid, May 13 2023
• <b>OPI English:</b> AH (Advanced High)	2A7617334333, Valid, Nov. 14 2023
• <b>RA Scholarship (80% tuition)</b>	Kyung Hee University, Sep. 01 2023
• <b>Excellence Paper Award</b>	Korean Society of Mechanical Engineers, No.2023-083, Aug. 25 2023
• <b>RA Scholarship (80% tuition)</b>	Kyung Hee University, Mar. 01 2023
• <b>RA Scholarship (80% tuition)</b>	Kyung Hee University, Sep. 01 2022
• <b>Excellence Scholarship (Full tuition)</b>	Kyung Hee University, Mar. 01 2021
• <b>TOEIC:</b> 925/990	No.605083, Expired, Nov 25 2018

## MISCELLANEOUS

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<b>Representative Administrative Assistant</b>	Kyung Hee University, Sep 2022 — Feb 2024
<b>Seminar: IAS18 Workshop&amp;Tutorials</b>	Intl. Conference on Intelligent Autonomous Systems, Jul 2023
<b>Seminar: AI Summer School 2022</b>	Korean Society of Mechanical Engineers, Aug 2022
<b>Teaching Assistant (System Dynamics)</b>	Modeling & Simulation Lab, Mar 2022 - Jun 2023
<b>Seminar: AI Summer School 2021</b>	Korean Society of Mechanical Engineers, Aug 2021
<b>Seminar: AI, Data Driven Models&amp;ML</b>	National Agency Finite Element Methods and Standard, Apr 2021
<b>Undergraduate Research Internship</b>	Modeling & Simulation Lab, Jan 2021 — Feb 2022
<b>48th Student Council</b>	Kyung Hee University College of Engineering, Feb 2019 — Jan 2020
<b>R.O.K.-U.S. Combined Marine Corps Interpreter</b>	1st Marine Div., ROKMC, Sep 2017 — Feb 2019