



**Seoyoung Hong**

## PERSONAL DATA

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- Birth: Jan 17<sup>th</sup>, 1998
- E-mail: seoyoungh@yonsei.ac.kr
- Phone: +82-10-2474-1433
- Website: <https://seoyoungh.github.io>

## RESEARCH INTERESTS

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- **Machine Learning / Deep Learning**
  - ✓ Recommender Systems
  - ✓ Predictive Modeling
  - ✓ Dynamic Pricing

## EDUCATION

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Sep. 2021 - Aug. 2023	<b>Yonsei University</b> Department of Artificial Intelligence M.S. in Artificial Intelligence (Advisor: Prof. Noseong Park)	Seoul, Korea
Jan. 2023 - Jun. 2023	<b>Georgia Institute of Technology</b> Visiting researcher in Computational Science & Engineering (Advisor: Prof. Srijan Kumar)	Atlanta, US
Mar. 2016 - Feb. 2021	<b>Kyunghee University</b> Department of Business Administration B.S. in Business Administration Department of Software (Data Science Track) B.S. in Software	Seoul, Korea Yongin, Korea
Jan. 2018 - Apr. 2018	<b>University of Leicester</b> Exchange Student	Leicester, UK

## PUBLICATIONS

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- Jul. 2023      **ICML 2023**  
Jeongwhan Choi, **Seoyoung Hong**, Noseong Park, and Sung-Bae Cho, “GREAD: Graph Neural Reaction-Diffusion Networks,” *International Conference on Machine Learning. PMLR*, 2023 [\[Link\]](#)
- Jul. 2023      **SIGIR 2023**  
Jeongwhan Choi, **Seoyoung Hong**, Noseong Park, and Sung-Bae Cho, “Blurring-Sharpening Process Models for Collaborative Filtering,” *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval*, 2023 [\[Link\]](#)
- Dec. 2022      **IEEE BigData 2022 (Best Student Paper)**  
**Seoyoung Hong**, Minju Jo, Seungju Kook, Jaeun Jung, Hyowon Wi, Noseong Park, and Sung-Bae Cho, “TimeKit: A Time-series Forecasting-based Upgrade Kit for Collaborative Filtering,” *2022 IEEE International Conference on Big Data (IEEE BigData)*, 2022 [\[Link\]](#)
- Oct. 2022      **CIKM 2022**  
**Seoyoung Hong**, Heejoo Shin, Jeongwhan Choi, and Noseong Park, “Prediction-based One-shot Dynamic Parking Pricing,” *Proceedings of the 31st ACM International Conference on Information & Knowledge Management*, 2022 [\[Link\]](#)
- Dec. 2021      **ICDM 2021**  
Sheoyon Jhin, Heejoo Shin, **Seoyoung Hong**, and Noseong Park, “Attentive neural controlled differential equations for time-series classification and forecasting,” *2021 IEEE International Conference on Data Mining (ICDM)*, 2021 [\[Link\]](#)
- Aug. 2021      **KDD 2021**  
Duanshun Li, Jing Liu, Jinsung Jeon, **Seoyoung Hong**, Thai Le, Dongwon Lee, and Noseong Park, “Large-Scale Data-Driven Airline Market Influence Maximization,” *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD)*, 2021 [\[Link\]](#)
- Dec. 2020      **KSC 2020**  
**Seoyoung Hong**, Midan Shim, and Daeho Lee, “Spelling Correction System for Korean Internet Language Using Transformer Model,” *Proceedings of the Korea Software Congress (KSC)*, 2020 [\[Link\]](#)

## AWARDS

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- Dec. 2022      **IEEE Bigdata 2022 Best Student Paper Award**  
Hosted by Institute of Electrical and Electronics Engineers (IEEE)
- Feb. 2021      **Korea Software Congress 2020 (KSC 2020) Junior Paper Awards**, 4th Prize  
Hosted by the Korean Institute of Information Scientists and Engineers
- Sep. 2020      **Big Data Analysis Awards 2020 (Big Contest 2020)**, 2nd Prize  
Hosted by the Korean National Information Society Agency

## CERTIFICATIONS

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| Mar. 2023 | <b>OPIc (Advanced Mid)</b><br>Test of English Speaking Proficiency |
| Oct. 2020 | <b>SQLD</b><br>Structured Query Language Developer                 |

## SKILLS

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- **Python** / C++
- **PyTorch** / Tensorflow / Scikit-learn
- **SQL**
- **Pandas** / NumPy

## EXPERIENCE

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| Oct. 2020 -<br>Jan. 2021 | <b>Google Machine Learning Bootcamp</b> |
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