



Seoyoung Hong

PERSONAL DATA

- Birth: Jan 17th, 1998
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RESEARCH INTERESTS

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

EDUCATION

Jan. 2023 - Jun. 2023	Georgia Institute of Technology Visiting researcher in Computational Science & Engineering (Advisor: Prof. Srijan Kumar)	Atlanta, US
Sep. 2021 - Aug. 2023	Yonsei University Department of Artificial Intelligence M.S. in Artificial Intelligence (Advisor: Prof. Noseong Park) GPA 4.34 / 4.5	Seoul, Korea
Mar. 2016 - Feb. 2021	Kyunghee University Department of Business Administration B.S. in Business Administration Department of Software (Data Science Track) B.S. in Software GPA 3.92 / 4.5	Seoul, Korea Yongin, Korea
Jan. 2018 - Apr. 2018	University of Leicester Exchange Student	Leicester, UK

PUBLICATIONS

- 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

- 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 | OPIc (Advanced Mid)
Test of English Speaking Proficiency |
| Oct. 2020 | SQLD
Structured Query Language Developer |

SKILLS

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

EXPERIENCE

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|--------------------------|---|
| Oct. 2020 -
Jan. 2021 | Google Machine Learning Bootcamp |
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