

# Seoyoung Hong

## PERSONAL DATA

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## RESEARCH INTERESTS

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- **Machine Learning / Deep Learning**
  - ✓ Recommender Systems
  - ✓ Predictive Modeling
  - ✓ Data Analysis

## EDUCATION

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

## PUBLICATIONS

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

## AWARDS

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

## CERTIFICATIONS

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Mar. 2023	<b>OPIc (Advanced Mid)</b> Test of English Speaking Proficiency
Oct. 2020	<b>SQLD</b> 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 - **Google Machine Learning Bootcamp**  
Jan. 2021