YOUNG JIN PARK

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https://young-j-park.github.io/

RESEARCH INTEREST
· Robust and flexible planning and control for robots.
· Quick adaptation to new environments.

EDUCATION

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)   Daejeon, Korea
M.S. in **Aerospace Engineering** [GPA: 4.12/4.30 (= 3.93/4.0)]   Feb 2019
· Supervisor: Han-Lim Choi, Ph.D.
· Thesis: "Interpretable Unsupervised Learning of Bayesian Nonparametric Dynamic State-Space Model."
· *Departmental M.S. Outstanding Paper Award*

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)   Daejeon, Korea
B.S. in **Aerospace Engineering** & Minor in **Mathematics** [GPA: 4.03/4.30 (= 3.96/4.0)]   Feb 2017
· *KAIST Presidential Fellowship* (awarded to ten students from the Class of 2017)
· *Departmental Exemplary Academic Achievement Award*

KOREA SCIENCE ACADEMY OF KAIST (KSA)   Busan, Korea
· *Graduated with Academic Excellence Award* (GPA: 4.00/4.30)   Feb 2013

PROFESSIONAL EXPERIENCE

NAVER CLOVA   Seongnam-si, Korea
Research Engineer   Feb 2019 - Present
· Developing a 45M-scale demand forecasting system using a self-supervised learning.
· Developed a 60M-scale recommender system using graph learning.

KISWE   New Providence, NJ
Intern   Jun 2016 - Aug 2016
· Implemented a prototype of interactive ads for the Kiswe's social video app.

PUBLICATIONS
*Authors contributed equally; IF: Impact Factor

Conferences & Journals

1. Y.J. Park, D. Kim, F. Odermatt, J. Lee, and K.M. Kim. "Forchestra: Towards a Scalable and Flexible Time Series Prediction Framework for Demand Forecasting."
   In *Knowledge Discovery and Data mining (KDD)*, 2022 (Submitted).

2. K. Rasul, Y.J. Park, M. Ramström, and K.M. Kim. "VQ-AR: Vector Quantized Autoregressive Probabilistic Time Series Forecasting."
   In *Knowledge Discovery and Data mining (KDD)*, 2022 (Submitted).

3. S.S. Park, Y.J. Park, Y. Min, and H.L. Choi. "Online Gaussian Process State-Space Model: Learning and Planning for Partially Observable Dynamical Systems."
   International Journal of Control, Automation and Systems, 2022. [IF: 3.314]

4. J.S. Ha*, Y.J. Park*, H.J. Chae, S.S. Park, and H.L. Choi. "Distilling a hierarchical policy for planning and control via representation and reinforcement learning."
   In *IEEE International Conference on Robotics and Automation (ICRA)*, 2021.

5. Y.J. Park, and H.L. Choi. "A neural process approach for probabilistic reconstruction of no-data gaps in lunar digital elevation maps."
   Aerospace Science and Technology, 2021. [IF: 5.107].

6. <u>Y.J. Park</u>, S.S. Park, and H.L. Choi. "Bayesian Nonparametric State-Space Model for System Identification with Distinguishable Multimodal Dynamics."
   Journal of Aerospace Information Systems, 2021. [IF: 1.076]

7. J.S. Ha, <u>Y.J. Park</u>, H.J. Chae, S.S. Park, and H.L. Choi. "Adaptive Path-Integral Autoencoders: Representation Learning and Planning for Dynamical Systems."
   In *Neural Information Processing Systems (**NeurIPS**)*, 2018.

8. <u>Y.J. Park</u>, P.M. Tagade, and H.L. Choi. "Deep Gaussian Process-Based Bayesian Inference for Contaminant Source Localization."
   IEEE Access, 2018. [IF: 4.098].

9. S.J. Lee, <u>Y.J. Park</u>, and H.L. Choi. "Efficient Sensor Network Planning Method using Approximate Potential Game."
   International Journal of Distributed Sensor Networks, 2018. [IF: 1.787]

Workshops & Late-Breaking Results

10. S. Jung, <u>Y.J. Park</u>, J. Jeong, K.M. Kim, H. Kim, M. Kim, and H. Kwak. "Global-Local Item Embedding for Temporal Set Prediction."
    In *ACM Recommender Systems (**RecSys**), Late-Breaking Results*, 2021.

11. I.J. Kwon, K.M. Kim, J. Jeong, K. Shin, <u>Y.J. Park</u>, and B.T. Zhang. "AdamDGN: Adaptive Memory using Dynamic Graph Networks for Staleness Problem in Recommender System."
    In *Knowledge Discovery and Data mining (**KDD**), Workshop on OARS*, 2021. **(Spotlight)**

12. S. Jung*, K.M. Kim*, H. Kwak*, and <u>Y.J. Park</u>*. "A Worrying Analysis of Probabilistic Time-series Models for Sales Forecasting."
    In *Neural Information Processing Systems (**NeurIPS**), ICBINB Workshop, PMLR*, 2020. (**Best Poster Awards**)

13. <u>Y.J. Park</u>, K. Shin, and K.M. Kim. "Hop Sampling: A Simple Regularized Graph Learning for Non-Stationary Environments."
    In *Knowledge Discovery and Data mining (**KDD**), Workshop on MLG*, 2020.

14. K. Shin, <u>Y.J. Park</u>, and K.M. Kim. "Multi-Manifold Learning for Large-scale Targeted Advertising System."
    In *Knowledge Discovery and Data mining (**KDD**), AdKDD Workshop*, 2020.

15. J. Jeong, J.M. Yun, H. Keam, <u>Y.J. Park</u>, Z. Park, and J. Cho. "div2vec: Diversity-Emphasized Node Embedding."
    In *ACM Recommender Systems (**RecSys**), Workshop on the IRS*, 2020.

16. K.M. Kim*, D. Kwak*, H. Kwak*, <u>Y.J. Park</u>*, S. Sim, J.H. Cho, M. Kim, J. Kwon, N. Sung, and J.W Ha. "Tripartite heterogeneous graph propagation for large-scale social recommendation."
    In *ACM Recommender Systems (**RecSys**), Late-Breaking Results*, 2019.

ACADEMIC HONORS

AWARDS

Best Poster Awards — ICBINB@NeuRIPS Workshop	Dec 2020
M.S. Outstanding Paper Award — Dept. of Aerospace Engineering, KAIST	Oct 2019
3rd Place — KSIAM-Math Works Problem Challenge	Nov 2017
Exemplary Academic Achievement Award — Dept. of Aerospace Engineering, KAIST	Sep 2017
Summa Cum Laude (Graduation Honors) — KAIST	Feb 2017
3rd Place — KSAS Undergraduate Student Paper Competition	Apr 2016
Academic Honors Student — Dept. of Aerospace Engineering, KAIST	Mar 2015

SCHOLARSHIPS

Young-Han Kim Global Leader Scholarship — Awarded to one M.S. student at KAIST	2018
GE Foundation Scholar-Leaders Program — Administered by Fulbright and IIE	2014-2016
Boeing Scholarship	2014-2016
Samsung Electronics JFL Scholarship	2013-2016
KAIST Presidential Fellowship — Awarded to ten students from the Class of 2017	2013-2016

TEACHING EXPERIENCES

KAIST Global Institute for Talented Education, *Tutor*   Feb 2018 - Nov 2018
· Taught science classes for talented middle school students.

KAIST SW STEAM Class, *Tutor*   Feb 2017 - Dec 2017
· Taught STEAM coding classes for talented middle school students.

Korean Massive Open Online Courses (K-MOOC), *Teaching Assistant*   Nov 2015 - Mar 2016
· Prepared quizzes and managed an undergraduate-level open online course.   Sep 2017 - Nov 2017

Samsung Dream Class, *Mentor*   Aug 2015 - Feb 2016
· Taught math classes for underprivileged middle school students.

College Tutoring Program, *Tutor*   2014 - 2018
· Tutored programming classes for freshman students at KAIST.   (6 semesters)