PARK, YOUNG-JIN

Seongnam 13557, Republic of Korea *E-mail*: yjpark0105@gmail.com

Phone: +82-10-8281-6666 https://young-j-park.github.io/

1. RESEARCH INTERESTS

- Machine learning and its application to real-world phenomena
- Representation learning for structured data
- Latent variable modeling and inference

2. EDUCATION

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)

Daejeon, South Korea

M.S. in Aerospace Engineering (GPA: 4.12/4.30)

Feb. 2019

- Supervisor: Han-Lim Choi, PhD
- Thesis: "Interpretable Unsupervised Learning of Bayesian Nonparametric Dynamic State-Space Model."
- Departmental M.S. Outstanding Paper Award

B.S. in Aerospace Engineering & Minor in Mathematical Sciences (GPA: 4.03/4.30)

Feb. 2017

- KAIST Presidential Fellowship (10 selected among entire class of 2013 matriculation)
- Departmental Exemplary Academic Achievement Award

KOREA SCIENCE ACADEMY (KSA)

Busan, South Korea

Academic Excellence Award (GPA: 4.00/4.30)

Feb. 2013

3. PROFESSIONAL EXPERIENCE

NAVER CLOVA & AI LAB

Seongnam, South Korea

AI Research Engineer

Feb. 2019 - Present

- Developing a retail demand forecasting system identifying relationships within multivariate time series.
- Developed a large-scale recommender system using non-stationary graph representation learning.

KISWE

New Providence, NJ, USA

Intern

Jun. 2016 – Aug. 2016

• Conducting prototype design and implementation of interactive ads, and user testing for the mobile app.

4. Publications

*authors contributed equally; IF: impact factor

Selected Publications

• 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," *IEEE International Conference on Robotics and Automation (ICRA)*, 2021.

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- **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].
- Y.J. Park, 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] [Finalists of Intelligent Systems Student Paper Competition, AIAA Scitech 2019]
- S. Jung*, K.M. Kim*, H. Kwak*, and **Y.J. Park***, "A Worrying Analysis of Probabilistic Time-series Models for Sales Forecasting," *Neural Information Processing Systems (NeurIPS) Workshop: I Can't Believe It's Not Better*, 2020. [Best Poster Awards]
- Y.J. Park, K. Shin, and K.M. Kim, "Hop Sampling: A Simple Regularized Graph Learning for Non-Stationary Environments," Knowledge Discovery and Data mining (KDD) Workshop: Mining and Learning with Graphs, 2020.
- K.M. Kim*, D. Kwak*, H. Kwak*, **Y.J. Park***, S. Sim, J.H. Cho, M. Kim, J. Kwon, N. Sung, and J.W Ha, "Tripartite heterogeneous graph propagation for large-scale social recommendation," *ACM Recommender Systems (RecSys) Late-Breaking Results*, 2019.
- J.S. Ha, **Y.J. Park**, H.J. Chae, S.S. Park, and H.L. Choi, "Adaptive Path-Integral Autoencoders: Representation Learning and Planning for Dynamical Systems," *Neural Information Processing Systems (NeurIPS)*, 2018.
- Y.J. Park, P.M. Tagade, and H.L. Choi, "Deep Gaussian Process-Based Bayesian Inference for Contaminant Source Localization," *IEEE Access*, 2018. [IF: 4.098]
- Y.J. Park, P.M. Tagade, and H.L. Choi, "Deep Matrix-variate Gaussian Processes," *Uncertainty in Artificial Intelligence (UAI) Workshop: Uncertainty in Deep Learning*, 2018.

Others

- S. Jung, **Y.J. Park**, J. Jeong, K.M. Kim, H. Kim, M. Kim, and H. Kwak, "Global-Local Item Embedding for Temporal Set Prediction," *ACM Recommender Systems (RecSys) Late-Breaking Results*, 2021.
- I.J. Kwon, K. Shin, J. Jeong, K.M. Kim, B.T. Zhang, and **Y.J. Park**, "AdamDGN: Adaptive Memory using Dynamic Graph Networks for Staleness Problem in Recommender System," Knowledge Discovery and Data mining (KDD) Workshop: Online and Adaptative Recommender Systems, 2021. [Spotlight]
- 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 (accepted)*, 2021. [IF: 3.314]
- K. Shin, **Y.J. Park**, and K.M. Kim, "Multi-Manifold Learning for Large-scale Targeted Advertising System," Knowledge Discovery and Data mining (*KDD*) Workshop: AdKDD, 2020.
- J. Jeong, J.M. Yun, H. Keam, **Y.J. Park**, Z. Park and J. Cho, "div2vec: Diversity-Emphasized Node Embedding," *ACM Recommender Systems (RecSys) Workshop: Impact of Recommender Systems*, 2020.
- S.J. Lee, **Y.J. Park**, and H.L. Choi, "Efficient Sensor Network Planning Method using Approximate Potential Game," International Journal of Distributed Sensor Networks, 2018. [IF: 1.787]
- Y.J. Park, S.H. Moon, and H.L. Choi, "High-Resolution Reconstruction for NoData Gaps in Narrow Angle Camera Digital Terrain Models Using Gaussian Process-Latent Variable Model," *Lunar and planetary science conference (LPSC)*, 2018.
- Y.J. Park, W.C. Lee, S.S. Park, H.L. Choi, E.H. Kim, J.J. Won, "Resource Management for Active Track/TWS

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Interleaving in Airborne AESA Radars," Korea Institute of Military Science and Technology (KIMST) Annual Conference, 2018.

- Y.J. Park, S.S. Park, W.C. Lee, H.L. Choi, E.H. Kim, J.J. Won, "Fuzzy Logic Approach for Target Prioritization in Airborne AESA Radars," *Korean Society for Aeronautical and Space Sciences (KSAS) Annual Conference*, 2018.
- D.W. Kim, **Y.J. Park**, H.L. Choi, S.H. Ryu, Y.J. Hong, "Adaptive Radar Resource Managing Method Considering Hostile Airborne Targets in Air-to-Air and Air-to-Surface Interleaving Mode," *Korean Society for Aeronautical and Space Sciences (KSAS) Annual Conference*, 2018.
- Y.J. Park, S.S. Park, W.C. Lee, H.L. Choi, E.H. Kim, J.E. Roh, "Adaptive Radar Task Scheduling Algorithm Considering the Target Priority," *Korean Society for Aeronautical and Space Sciences (KSAS) Annual Conference*, 2017.
- W.C. Lee, S.S. Park, Y.J. Park, H.L. Choi, E.H. Kim, J.E. Roh, "Track Management for TWS mode of AESA Radar," Korean Society for Aeronautical and Space Sciences (KSAS) Annual Conference, 2017.

5. ACADEMIC HONORS

Dec. 2020
Feb. 2019
Nov. 2017
Sep. 2017
Feb. 2017
Apr. 2016
Mar. 2015
2018
2014 - 2016
2014 - 2016
2013 - 2016
2013 - 2016