

Minji Yoon

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RESEARCH INTEREST

Graph Mining, Machine Learning, Social Network Analysis, Stream Mining

EDUCATION

- Carnegie Mellon University** Sep. 2018 – Present
- Ph.D in Computer Science
 - Advisor: Prof. Christos Faloutsos
- Movement Research Lab., Seoul National University** Sep. 2012 – Aug. 2014
- M.S. in Computer Science and Engineering
 - Advisor: Prof. Jehee Lee
- Seoul National University** Mar. 2008 – Feb. 2012
- B.S. in Electrical and Computer Engineering
- Hansung Science High School** Mar. 2006 – Feb. 2008
- 1 year early graduation

PUBLICATION

International Conference

- [1] **Minji Yoon**, Theophile Gervet, Bryan Hooi, and Christos Faloutsos, *Autonomous Graph Mining Algorithm Search with Best Speed/Accuracy Trade-off*, IEEE International Conference on Data Mining 2020 (**ICDM'20**)
- [2] Yiwei Wang, Shenghua Liu, **Minji Yoon**, Hemank Lamba, Wei Wang, Christos Faloutsos, and Bryan Hooi, *Provably Robust Node Classification via Low-Pass Message Passing*, IEEE International Conference on Data Mining 2020 (**ICDM'20**)
- [3] Siddharth Bhatia, Bryan Hooi, **Minji Yoon**, Kijung Shin, and Christos Faloutsos, *MIDAS: Microcluster-Based Detector of Anomalies in Edge Streams*, AAAI Conference on Artificial Intelligence 2020 (**AAAI'20**)
- [4] **Minji Yoon**, Bryan Hooi, Kijung Shin, and Christos Faloutsos, *Fast and Accurate Anomaly Detection in Dynamic Graphs with a Two-Pronged Approach*, SIGKDD Conference on Knowledge Discovery and Data Mining 2019 (**KDD'19**)
- [5] **Minji Yoon**, Woojung Jin, and U Kang, *Fast and Accurate Random Walk with Restart on Dynamic Graphs with Guarantees*, The Web Conference 2018 (**WWW'18**)
- [6] **Minji Yoon**, Jinhong Jung, and U Kang, *TPA: Fast, Scalable and Accurate Method for Approximate Random Walk with Restart on Billion Scale Graphs*, IEEE International Conference on Data Engineering 2018 (**ICDE'18**)

Domestic Conference

- [1] **Minji Yoon** and Jehee Lee, *Online Motion Puppetry for Non-human Characters*, Korea Computer Graphics Society 2014 (**KCGS'14**)
- [2] **Minji Yoon**, Kyunglyul Hyun, and Jehee Lee, *Crowd simulation based on Motion Patches*, Korean Society for Precision Engineering 2013 (**KSPE'13**)

WORK EXPERIENCE

Standardization team, LinkedIn	May.2020 – Aug.2020
<ul style="list-style-type: none">Artificial Intelligence – Machine Learning Engineer InternLearning to optimize GNN computation graphs	
CTPS Machine Learning Acceleration team, Amazon.com	May.2019 – Aug.2019
<ul style="list-style-type: none">Applied Scientist InternDeveloping Fraud Detection Algorithms on Amazon.com	
Data Mining Lab., Seoul National University	Apr. 2017 – June 2018
<ul style="list-style-type: none">Research InternWorking on Graph Mining under the Supervision of Prof. U Kang	
Sap Labs Korea, Seoul, Korea	Sep. 2014 – Mar. 2017
<ul style="list-style-type: none">Software DeveloperSAP HANA Database Kernel Development	
Movement Research Lab., Seoul National University	Mar. 2012 – Aug. 2012
<ul style="list-style-type: none">Research InternWorking on Crowd Simulation & Motion Mapping under the Supervision of Prof. Jehee Lee	

PATENT

International

- [1] **Minji Yoon**, Jinhong Jung, and U Kang, *Fast, Scalable and Accurate Method for Approximate Random Walk with Restart on Billion Scale Graphs*, PCT/KR2017/012962 (18 Nov 2017)
- [2] **Minji Yoon**, and Chulwon Lee, *Remote authentication*, USA: 15/363,102 (29 Nov 2016)
- [3] Yongwook Jeong, **Minji Yoon**, Ian McHardy, Jeff Albion, Abhishek Singhi, Rich Jones, and Chulwon Lee, *Workload Shifting in a Database System Using Hint-Based Routing*, US patent 10,162,721 (grant date Dec. 25, 2018)

AWARDS & HONORS

Kwanjeong Educational Foundation Scholarship	Sep. 2018 – Aug. 2022
<ul style="list-style-type: none">4 years for Doctor's Degree	
National Science & Technology Scholarship, KOSAF	Mar. 2008 – Feb. 2012
<ul style="list-style-type: none">Full tuition exemptions for 8 semesters.	
Cum Laude Graduation Honors, Seoul National University	Feb. 2012