

Jinyoung Yeo

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RESEARCH INTERESTS

- Knowledge Base (KB) Construction and Harvesting
- Multimodal Social Network Analysis
- Location-based Services
- Transfer Learning/ Domain Adaptation
- Conversion/Purchase Behavior Analysis for Retargeting
- Deep Learning

EDUCATION

Pohang University of Science and Technology (POSTECH), Pohang, Korea Mar 2012 – Present

Ph.D. Candidate in Computer Science and Engineering

- Adviser: Profs. Seung-won Hwang and Hee-Kap Ahn
- Expected graduation: Aug, 2018.

Kyungpook National University, Daegu, Korea

Mar 2005 – Feb 2012

B.S. in Computer Science and Engineering

- GPA: 4.12 / 4.50 (5th)
- Time off for mandatory military service for 2 years (Rifle Squad Leader, Sergeant, Mar 2006 – Mar 2008)

RESEARCH EXPERIENCE

Adobe Research, San Jose, CA, USA

Jun 2016 – Sep 2016

Research Intern, BigData Experience Lab

- Led a research project on impulsive conversion prediction for retargeting. Submitted paper [3]

Adobe Research, San Jose, CA, USA

Sep 2015 – Dec 2015

Research Intern, Imagination Lab

- Led a research project on conversion prediction for retargeting. Published paper [8]
- Led a research project on more effectively forecasting e-commerce sales. Published paper [10]. Applied for a patent with researched technology [15].
- Assisted the research on analyzing product relationships for purchase prediction. Published [11]

Yonsei University, Seoul, Korea

Jul 2015 – Present

Research Assistant, Data Intelligence Lab

- Supervisor: Prof. Seung-won Hwang

POSTECH, Pohang, Korea

Mar 2012 – Jun 2015

Research Assistant, Information and Database Systems Lab

- Supervisor: Prof. Seung-won Hwang

PUBLICATIONS

[1] **Deep Neural Model for Sentence Classification using Domain-free Translated Context**

Reinald Kim Amplayo, Kyungjae Lee, **Jinyoung Yeo**, Seung-won Hwang

Under review: **IJCAI - International Joint Conference on Artificial Intelligence**, 2018

[2] **Explainable Instance Alignment: Distributed Representation using Dominance Relationship**

Jinyoung Yeo, Eric Wonhee Lee, Sanghoon Lee, Seung-won Hwang

Under review: **TKDE - IEEE Transactions on Knowledge and Data Engineering**, 2018

[3] **Conversion Prediction and Predictability: Modeling General and Impulsive Purchase Patterns from Clickstream Data**

Jinyoung Yeo, Seung-won Hwang, Sungchul Kim, Eunye Koh, Nedim Lipka

Under revision: **TKDE - IEEE Transactions on Knowledge and Data Engineering**, 2018

- [4] **Visual Choice of Plausible Alternatives: An Evaluation of Image-based Commonsense Causal Reasoning**
Jinyoung Yeo, {Gyungbok Lee, Gengyu Wang}^{*}, Seungtaek Choi, Hyunsouk Cho, Reinald Kim Amplayo, Seung-won Hwang (^{*} authors in alphabetical order with equal contribution)
LREC - International Conference on Language Resources and Evaluation, Miyazaki, Japan, 2018 (to appear)
- [5] **Machine-translated Knowledge Transfer for Commonsense Causal Reasoning**
Jinyoung Yeo, Gengyu Wang, Hyunsouk Cho, Seungtaek Choi, Seung-won Hwang
AAAI - AAAI Conference on Artificial Intelligence, New Orleans, LA, USA, 2018 (oral presentation)
- [6] **Efficient Keyword-aware Representative Travel Route Recommendation**
Yu-Ting Wen, **Jinyoung Yeo**, Wen-Chih Peng, and Seung-won Hwang
TKDE - IEEE Transactions on Knowledge and Data Engineering, pp. 1639-1652, Volume: 29, Issue: 8, Aug 1, 2017
- [7] **Multimodal KB Harvesting for Emerging Spatial Entities**
Jinyoung Yeo, Hyunsouk Cho, Jin-woo Park, and Seung-won Hwang
TKDE - IEEE Transactions on Knowledge and Data Engineering, pp. 1073-1086, Volume: 29, Issue: 5, May 1 2017
- [8] **Predicting Online Purchase Conversion for Retargeting**
Jinyoung Yeo, Sungchul Kim, Eunye Koh, Seung-won Hwang, Nedim Lipka
WSDM - ACM International Conference on Web Search and Data Mining, pp. 591-600, Cambridge, UK, 2017 (oral presentation)
- [9] **Event Grounding from Multimodal Social Network Fusion**
{Hyunsouk Cho, **Jinyoung Yeo**}^{*}, and Seung-won Hwang (^{*} co-first authors with equal contribution)
ICDM - IEEE International Conference on Data Mining, pp. 835-840, Barcelona, Spain, 2016 (oral presentation)
- [10] **Browsing2purchase: Online Customer Model for Sales Forecasting in an E-Commerce Site**
Jinyoung Yeo, Sungchul Kim, Eunye Koh, Seung-won Hwang, and Nedim Lipka
WWW - International World Wide Web Conference, pp. 133-134, Montreal, Canada, 2016
- [11] **Purchase Influence Mining: Identifying Top-K Items Attracting Purchase of Target Item**
Sungchul Kim, **Jinyoung Yeo**, Eunye Koh, and Nedim Lipka
WWW - International World Wide Web Conference, pp.57-58, Montreal, Canada, 2016
- [12] **Understanding Emerging Spatial Entities**
Jinyoung Yeo, Jin-woo Park, and Seung-won Hwang
AAAI - AAAI Conference on Artificial Intelligence, pp. 301-307, Phoenix, AZ, USA, 2016 (oral presentation)
- [13] **KSTR: Keyword-aware Skyline Travel Route Recommendation**
Yu-Ting Wen, Kae-Jer Cho, Wen-Chih Peng, **Jinyoung Yeo**, and Seung-won Hwang
ICDM - IEEE International Conference on Data Mining, pp. 449-458, Atlantic City, NJ, USA, 2015 (oral presentation)
- [14] **Finding Influential Products on Social Domination Game**
Jinyoung Yeo, Jin-woo Park, and Seung-won Hwang
CIKM - ACM International Conference on Information and Knowledge Management, pp. 2359-2362, Maui, HI, USA, 2012

- PATENT** [15] **Sales Forecasting using Browsing Ratios and Browsing Durations**
Jinyoung Yeo, Nedim Lipka, Eunyee Koh (Adobe Systems Inc.)
US Patent App., 2017
- AWARDS**
- AAAI Student Scholarship Award, 2018
Provided travel and hotel fees to attend AAAI 2018 and present a paper.
 - Naver Ph.D Fellowship Award, 2017
For being the most outstanding computer science Ph.D student in Korea.
 - Runner-up Prize, ICT Thesis & Invention Contest, IDIS-ETNEWS, 2016
2nd place for [9] in publications.
- COURSEWORK**
- Advanced courses in computer science in POSTECH
Pattern Recognition, Discrete Optimizing, Machine Translation, Information Retrieval, Natural Language Processing
 - Basic courses in computer engineering in Kyungpook National University
Operating System, Database, Algorithm, Data Structure, Programming Language, Automata, Statistics
 - IT skills
TensorFlow, Keras, Python, C++, C#, JAVA, SQL, R, Perl, Matlab, Flash
- REFERENCES** Available upon request

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