

JAY YOON LEE

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EDUCATION

CARNEGIE MELLON UNIVERSITY, (CSD) May.2013 – Present
Ph.D. in Computer Science (GPA: 3.95 /4.3) Advisor: Jaime Carbonell

CARNEGIE MELLON UNIVERSITY, (LTI & LCCB) Sep.2011 – May.2013
M.S. in Computer Science (GPA: 3.95 /4.3)

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST) Mar.2003 – 2008
B.S. in Electrical Engineering, *summa cum laude*, 2008 (GPA: 3.94/4.3)

**SCHOLARSHIPS
& AWARDS**

1. Scholarship in Science & Technology, Korea Student Foundation Mar.2003 – Feb.2008
2. Scholarship in Mathematics, Korea Foundation of Advanced Studies Mar.2005 – Feb.2008

PUBLICATIONS

1. **Jay-Yoon Lee**, Michael Wick, Sanket Mehta, Jean-Baptiste Tristan, Jaime Carbonell, *Gradient-based Inference for Networks with Output Constraints*, **under review**
2. **Jay-Yoon Lee***, Sanket Mehta*, Jaime Carbonell, *Towards Semi-Supervised Learning for Deep Semantic Role Labeling*, **EMNLP 2018**, Oct 2018 (*: equal contribution)
3. **Jay-Yoon Lee**, Michael Wick, Jean-Baptiste Tristan, Jaime Carbonell, *Enforcing constraints on outputs with unconstrained inference*, **NIPS workshop AKBC**, Dec 2017
4. **Jay-Yoon Lee***, Manzil Zaheer*, Stephan Günnemann, Alex Smola, *Preferential Attachment in Graphs with Affinities*, **AISTATS 2015**, May 2015 (*: equal contribution)
5. U Kang, **Jay-Yoon Lee**, Danai Koutra and Christos Faloutsos, *Net-Ray: Visualizing and Mining Billion-Scale Graphs*, **PAKDD 2014**, May 2014
6. Yibin Lin, Agha Ali Raza, **Jay-Yoon Lee**, Danai Koutra, Roni Rosenfeld, Christos Faloutsos, *Influence Propagation: Patterns, Model and Case Study*, **PAKDD 2014**, May 2014
7. Ted E. Senator, **Jay-Yoon Lee** et al., *Detecting insider threats in a real corporate database of computer usage activity*, **KDD 2013**, August 2013
8. **Jay-Yoon Lee**, U Kang, Danai Koutra and Christos Faloutsos, *Fast Anomaly Detection despite the Duplicates*, poster paper on **WWW 2013**, May 2013

**RESEARCH
EXPERIENCE**

Research Assistant under Professor Jaime Carbonell Oct.2015 – Present
 Multi-task, Transfer learning using knowledge and continual learning.
 Large scale optimization problem for multi-dimensional demand forecasting

Research Assistant under Professor Christos Faloutsos June.2012 – Oct.2015
 Anomaly detection algorithm on large graphs

TEACHING

Teaching Assistant for Multimedia Databases and Data Mining Fall 2014
Teaching Assistant for Machine Learning (Ph.D. course) Spring 2015

**GRADUATE
COURSEWORK**

Probabilistic graphical models, Deep Learning, Deep RL 2015+
 Statistical Machine Learning, Graduate Algorithm, Advanced and Distributed OS 2014
 Spectral Graph Theory, Convex Optimization Fall 2013
 Intermediate Statistics, Multimedia Databases and Data Mining Fall 2012

**WORK
EXPERIENCE**

Microsoft Research, Redmond, Improving conversation using multiple metrics.
Summer Internship with Paul Bennett, Information and Data Sciences Group, June.2017 – Aug.2017

Oracle Labs, Boston, MA Syntactic parsing for multiple languages using LSTM.
Summer Internship, with Michael Wick, IRML team, June.2016 – Aug.2016

ZEROIN Corporation, Seoul, Korea INDEX Management System (Java).
Researcher (Alternative military service), Sep.2009 – June.2011

NICE Pricing Services, INC., Seoul, Korea Equity-Linked securities and SWAP securities.
Associate (Alternative military service), Jul. 2008. – Aug. 2009

AMICUS WIRELESS TECHNOLOGY, Sunnyvale, CA
Intern, Oct.2007 – Jan. 2008