# **JAY YOON LEE**

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#### **EDUCATION**

CARNEGIE MELLON UNIVERSITY, (CSD) Ph.D. in Computer Science (GPA: 3.95 /4.3)

May.2013 – Present 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 **PUBLICATIONS**

- Scholarship in Science & Technology, Korea Student Foundation Mar.2003 – Feb.2008
- Scholarship in Mathematics, Korea Foundation of Advanced Studies Mar. 2005 Feb. 2008
- Jay-Yoon Lee, Sanket Mehta, Michael Wick, Jean-Baptiste Tristan, Jaime Carbonell, 1. Gradient-based Inference for Networks with Output Constraints, AAAI 2019
- Jay-Yoon Lee\*, Sanket Mehta\*, Jaime Carbonell, Towards Semi-Supervised Learning for Deep Semantic Role Labeling, **EMNLP 2018**, Oct 2018 (\*: equal contribution)
- Jay-Yoon Lee, Michael Wick, Jean-Baptiste Tristan, Jaime Carbonell, Enforcing constraints on outputs with unconstrained inference, NIPS workshop AKBC, Dec 2017
- Jay-Yoon Lee\*, Manzil Zaheer\*, Stephan Günnemann, Alex Smola, Preferential Attachment in Graphs with Affinities, AISTATS 2015, May 2015 (\*: equal contribution)
- U Kang, Jay-Yoon Lee, Danai Koutra and Christos Faloutsos, Net-Ray: Visualizing and 5. Mining Billion-Scale Graphs, PAKDD 2014, May 2014
- 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
- Ted E. Senator, Jay-Yoon Lee et al., Detecting insider threats in a real corporate database of computer usage activity, KDD 2013, August 2013
- 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 constraint injection.

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 Statistical Machine Learning, Graduate Algorithm, Advanced and Distributed OS 2015+ 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

#### Misceallaneous

Winner, NeuroHackathon (Brain), Carnegie Mellon University, June 2016, \$5,000 team prize. Best Presenter, Global Top Talent, Hyundai Corporation, August 2016, \$3,000 prize.