JAY YOON LEE

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EDUCATION	**CARNEGIE MELLON UNIVERSITY, (CSD)** **Ph.D. in Computer Science (GPA: 3.95 ⁄ 4.3)**	May.2013 – July.2020 Advisor: Jaime Carbonell
	CARNEGIE MELLON UNIVERSITY, (LTI & LCCB) **M.S. in Computer Science (GPA: 3.95 ⁄4.3)**	Sep.2011 – May.2013
	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

SELECTED PUBLICATIONS

1. **Jay-Yoon Lee***, KyungTae Lim*, Jaime Carbonell, Thierry Poibeau*, Semi-Supervised Learningon Meta Structure: Multi-Task Tagging and Parsing in Low-Resource Scenario,* **AAAI 2020** (*: equal contribution)
2. **Jay-Yoon Lee**, Sanket Mehta, Michael Wick, Jean-Baptiste Tristan, Jaime Carbonell*,Gradient-based Inference for Networks with Output Constraints,* **AAAI 2019**
3. **Jay-Yoon Lee***, Sanket Mehta*, Jaime Carbonell*, Towards Semi-Supervised Learning for DeepSemantic Role Labeling,* **EMNLP 2018**, Oct 2018 (*: equal contribution)
4. **Jay-Yoon Lee**, Michael Wick, Jean-Baptiste Tristan*, Jaime Carbonell, Enforcing constraints onoutputs with unconstrained inference,* **NIPS workshop AKBC**, Dec 2017
5. **Jay-Yoon Lee*,** Manzil Zaheer*, Stephan Günnemann, Alex Smola, *Preferential Attachment in Graphs with Affinities,* **AISTATS 2015,** May 2015 (*: equal contribution)
6. Vidhisha Balachandran, Artidoro Pagnoni, **Jay-Yoon Lee**, Dheeraj Rajagopal, Jaime G Carbonell, Yulia Tsvetkov, *StructSum: Summarization via Structured Representations,* **EACL 2021**
7. Zhiyang Xu, Andrew Drozdov, **Jay-Yoon Lee**, Tim O'Gorman, Subendhu Rongali, Dylan Finkbeiner, Shilpa Suresh, Mohit Iyyer, Andrew McCallum, *Improved Latent Tree Induction with Distant Supervision via Span Constraints*, **EMNLP2021**
8. Rajarshi Das, Manzil Zaheer, Dung Thai, Ameya Godbole, Ethan Perez, **Jay-Yoon Lee**, Lizhen Tan, Lazaros Polymenakos, Andrew McCallum, *Case-based Reasoning for Natural Language Queries over Knowledge Bases,* **EMNLP2021**

RESEARCH EXPERIENCE	**Postdoctoral Research Associate** under Professor Andrew McCallum. Constraint injection, Energy-based models and Box representation	July.2020- Present
	Research Assistant under Professor Jaime Carbonell Semi-supervised & Transfer learning using constraint injection.	Oct.2015 –July.2020
	Research Assistant under Professor Christos Faloutsos Anomaly detection algorithm on large graphs.	June.2012 –Oct.2015
TEACHING	**Teaching Assistant** for Multimedia Databases and Data Mining	Fall 2014
	Teaching Assistant for Machine Learning (Ph.D. course)	Spring 2015
GRADUATE COURSE	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

Google AI, New York, Tag-constrained Transformer for text normalization.
Research Internship with Hao Zhang, ***Language and Speech***, Oct.2019 – Jan.2020
Microsoft Research, Redmond, Combinatorial action RL for task-oriented dialogue.
Summer Internship with Sungjin Lee, Jianfeng Gao, ***Deep Learning group*** May.2019 – Aug.2019
Microsoft Research, Redmond, Improving conversation using multiple metrics.
Summer Internship with Paul Bennett, ***Information and Data Sciences***, June.2017 – Aug.2017
Oracle Labs, Boston, MA   Syntactic parsing with output constraint on seq2seq.
*Summer Internship***,** with Michael Wick, ***IRML group***, June.2016 – Aug.2016

Miscellaneous

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