

## Education

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<b>Seoul, Korea</b>	<b>Seoul National University(SNU)</b>	<b>Mar 2007 - Current</b>
<ul style="list-style-type: none"><li>• Ph.D. Student in Computer Science &amp; Engineering (Advisor: Byung-Gon Chun), Mar 2014 - Current.</li><li>• B.S. in Computer Science &amp; Engineering, Mar 2007 - Feb 2014.</li></ul>		

## Research Experience

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<b>Research Assistant</b>	<b>SNU Software Platform Lab</b>	<b>Mar 2014 - Current</b>
<b>Pretzel</b> <ul style="list-style-type: none"><li>• A Machine Learning Inference System that performs model serving in a white-box manner.</li></ul> <b>Cruise</b> <ul style="list-style-type: none"><li>• A Distributed Machine Learning Training System that automates the system configurations (e.g., resource/data assignment) in Parameter Server.</li></ul>		

<b>Project Management Committee</b>	<b>Apache REEF</b>	<b>Sep 2014 - Current</b>
<ul style="list-style-type: none"><li>• Worked as release manager of REEF 0.14 (REEF-811), the first release as an Apache Top-Level Project (TLP).</li></ul>		

## Work Experience

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<b>Data Group, Research Intern</b>	<b>Microsoft Research Redmond</b>	<b>Jun 2017 - Sep 2017</b>
<ul style="list-style-type: none"><li>• Explored the optimization opportunities for the Machine Learning prediction pipelines.</li></ul>		
<b>Systems Research Group, Intern</b>	<b>Microsoft Research Asia</b>	<b>Sep 2015 - Feb 2016</b>
<ul style="list-style-type: none"><li>• Co-designed and co-implemented Pado, a data processing engine that can handle the transient resources.</li></ul>		

## Publications

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- **Yunseong Lee**, Alberto Scolari, Byung-Gon Chun, Marco Domenico Santambrogio, Markus Weimer, Matteo Interlandi. Opening the Black Box of Machine Learning Prediction Serving Systems. OSDI, October 2018.
- **Yunseong Lee**, Alberto Scolari, Byung-Gon Chun, Markus Weimer, Matteo Interlandi. From the Edge to the Cloud: Model Serving in ML.NET. IEEE Data Engineering Bulletin, December 2018.
- **Yunseong Lee**, Alberto Scolari, Matteo Interlandi, Markus Weimer, Byung-Gon Chun. Towards High-Performance Prediction Serving Systems. NIPS ML Systems Workshop, December 2017.
- Alberto Scolari, **Yunseong Lee**, Markus Weimer, Matteo Interlandi. Towards Accelerating Generic Machine Learning Prediction Pipelines. ICCD, November 2017.
- Youngseok Yang, Geon-Woo Kim, Won Wook Song, **Yunseong Lee**, Andrew Chung, Zhengping Qian, Brian Cho, Byung-Gon Chun. Pado: A Data Processing Engine for Harnessing Transient Resources in Datacenters. Eurosys 2017.
- Byung-Gon Chun, Brian Cho, Beomyeol Jeon, Joo Seong Jeong, Gunhee Kim, Joo Yeon Kim, Woo-Yeon Lee, **Yun Seong Lee**, Markus Weimer, Gyeong-In Yu. Dolphin: Runtime Optimization for Distributed Machine Learning. ICML ML Systems workshop, June 2016.
- Markus Weimer, Yingda Chen, Byung-Gon Chun, Tyson Condie, Carlo Curino, Chris Douglas, **Yunseong Lee**, Tony Majestro, Dahlia Malkhi, Sergiy Matuskevych, Brandon Myers, Shravan Narayanamurthy, Raghu Ramakrishnan, Sriram Rao, Russell Sears, Beysim Sezgin, Julia Wang. ACM SIGMOD 2015, June 2015.
- Joo Seong Jeong, Woo-Yeon Lee, **Yunseong Lee**, Youngseok Yang, Brian Cho, Byung-Gon Chun. Elastic Memory: Bring Elasticity Back To In-Memory Big Data Analytics. HotOS 2015, May 2015.