

Seungwon Kim

<https://seungwon1.github.io/>

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EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
Masters in Computer Science; Current GPA: 4.0 / 4.0 Jan. 2019 – Present
- **Kyungpook National University** Deagu, South Korea
Bachelor of Science in Electronic Engineering; GPA: 3.3 / 4.0 Mar. 2009 – Feb. 2016

WORK EXPERIENCE

- **Incheon International Airport Corporation** Incheon, South Korea
Electrical Engineer Dec 2015 - Present
 - **SCADA:** Managed Supervisory Control and Data Acquisition(SCADA) system.
 - **Short Term Load Forecast:** Developed short-term electricity load forecast system and strategy to reduce airport costs through peak load forecast.
 - **Incheon Main Traffic Control Tower Renovation:** Designed electric power system, interior lighting and aircraft warning lights, emergency power system including static transfer switch and UPS.

PROJECTS

- **Lay Summarization using Pre-Trained Language Model** May - Jul 2020
Educational Technology, Georgia Institute of Technology
 - Developed Lay Summarization model using PreSumm (Liu et, al. 2019).
- **Neurips 2019 Reproducibility Challenge** Nov - Dec 2019
<https://github.com/seungwon1/BEAR-QL> Report: *<https://openreview.net/forum?id=S1lXO6cf6S>*
 - Implemented Off-policy Q-Learning via Bootstrapping Error Reduction (Kumar et, al. 2019) and wrote reproducibility report.
- **Striving for Simplicity in Off-policy Deep Reinforcement Learning** Nov - Dec 2019
https://github.com/seungwon1/batch_rl
 - Implemented Striving for Simplicity in Off-policy Deep Reinforcement Learning (Agarwal et, al. 2019).
 - Implemented Distributional Reinforcement Learning with Quantile Regression (Dabney et, al. 2017).
 - Implemented A Distributional Perspective on Reinforcement Learning (Bellemare et, al. 2017).
 - Implemented Human-Level Control through Deep Reinforcement Learning (Mnih et, al. 2015).
- **Correlated Q-Learning** Jul 2019
Reinforcement Learning, Georgia Institute of Technology
 - Implemented Correlated-Q learning (Greenwald et, al. 2003) and wrote reproducibility report.
- **Learning to Predict by the Methods of Temporal Differences** Jun 2019
Reinforcement Learning, Georgia Institute of Technology
 - Implemented Learning to predict by the methods of temporal differences (Sutton. 1988) and wrote reproducibility report.

RELEVANT COURSES (ONLINE)

Reinforcement Learning (UCL, David Silver) CS231N: CNNs for Visual Recognition (Stanford)
MIT OWC 18.06 (Linear Algebra), 6.041 (Probabilistic Systems Analysis and Applied Probability)
Machine Learning, Deep Learning Specialization (Coursera)

PROGRAMMING SKILLS

- **Languages:** Python, C/C++, Unix/Linux