

# Seungwon Kim

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

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## EDUCATION

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- **Georgia Institute of Technology** Atlanta, GA  
*Masters in Computer Science; Current GPA: 4.0 / 4.0* Jan. 2019 – Dec. 2020 (expected)
- **Kyungpook National University** Deagu, South Korea  
*Bachelor of Science in Electronic Engineering; GPA: 3.3 / 4.0* Mar. 2009 – Feb. 2016

## WORK EXPERIENCE

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- **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

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- **Computational Linguistics Lay Summary Challenge 2020** May - Aug 2020  
*<https://competitions.codalab.org/competitions/25516>* Paper: under review
  - Developed Lay Summarization model using PEGASUS (Zhang et, al. 2019) and 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](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)

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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

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