**Seungwon Kim**
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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 Engineeer* — *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

- **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) 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