

Hyung-Kwon Ko

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

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INTERESTS

- Algebraic topology & Multidimensional geometry
- Data dimensionality reduction and its visualization based on graphs and topological analysis
- Enhancing performance of support vector machine with topological distance

EDUCATION

- **Hanyang University** Seoul, Republic of Korea
B.S. in Mathematics, Minor in Industrial Engineering Mar 2014 – present

EXPERIENCE

- **LG Electronics** Seoul, Republic of Korea
Home electronics company, Cloud center, Service development team, Intern Jan 2019 - present
 - Worked on data mining project in customer relationship management(CRM) for sales promotion
 - **Wesley Quest** Seoul, Republic of Korea
Strategic consulting firm, Big data team, Research associate Jun 2018 - Aug 2018
 - Participated in two big data projects. Made deep-learning based prediction model using Python
 - 1) Improvement of the management system and air quality in Seoul Metro (Client: Seoul Digital Foundation)
 - 2) Inventing the model of predicting the workers compensation using big data (Client: Korea Workers Compensation and Welfare Service)
 - **Lab for Probability and Statistical Modeling** Seoul, Republic of Korea
Lab of professor Suk-Joo Bae in Hanyang University, Undergraduate intern Mar 2017 - Nov 2017
 - Participated in Hyundai Motors reliability analysis projects
 - 1) Improvement on the component reliability using the warranty claims data
 - 2) OBD sensor data analysis
 - **Actors Theatre Workshop** New York, NY, USA
Nonprofit organization, Intern Mar 2016 - Aug 2016
 - **Program staff:** Helped unprivileged children in NYC with therapeutic programs
 - **Fundraising work:** Wrote proposal letters to NYC councilman for fundraising
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- ## AWARDS
- **3rd place in Big Contest**
Open contest held by National Information Society Agency and Korea Bigdata Forum Aug 2018 - Oct 2018
 - Developed 'Financial Information Index for Individual User' with Shinhan Bank's customer data
 - **2nd Place in Artificial Intelligence Novel Competition**
Open contest held by KT and KOCCA Mar 2018 - Aug 2018
 - Made deep learning-based Korean sentence recommender which uses BiLSTM and Doc2Vec algorithm
 - Received an opportunity to participate in KT's next project and 20,000,000 KRW of prize money
 - **2nd Place in Academical team research**
Natural science college of Hanyang University Mar 2017 - Nov 2017
 - Predicted the number of visitors of children's grand park with regression, SVR and time series model

PROGRAMMING SKILLS

- **Languages:** Python(tensorflow, keras), R, C/C++, JavaScript(node, d3.js), Matlab, SQL
- **Technologies & Tools:** git, vim, AWS, L^AT_EX

MILITARY SERVICE

- **Transferred from active service to first reserve**

11th Division, Administrative Clerk

Jun 2011 - Mar 2013