

RESEARCH INTERESTS

Online social behavior, Democracy of Social media, Language divide on the web, Algorithmic bias, Explainable AI, AI ethics, Inclusive data science,

EDUCATION

École Polytechnique Fédérale de Lausanne (EPFL) M.S. in Digital Humanities	Lausanne, Switzerland 2019–Current
Korea Advanced Institute of Science and Technology (KAIST) B.S. in Electrical Engineering, Minor in Science Technology and Policies	Daejeon, Republic of Korea 2011–2016

EXPERIENCE

Teaching Assistant of Undergraduate Computer Network Course School of Computing, KAIST	Daejeon Spring 2016
<ul style="list-style-type: none">– Assisted undergraduate students and faculty.– Graded quiz and exams and responded to claims and questions.	
Assistant Librarian KAIST Library	Daejeon 2013–2015
<ul style="list-style-type: none">– Assisted library resources management.	

SKILLS

- **Programming Languages:** Python, C/C++, Assembly
- **Data Analysis:** nltk, spaCy, pandas, SciPy, scikit-learn, PySpark, MATLAB, HTML, CSS
- **Tools and Framework:** Jupyter Lab, Git/Github, LaTeX, MS Office

COURSE PROJECTS

See project materials on haeeun.kim

How and why is facial feature detection technology biased?

Image and Video Processing, EPFL, Fall 2020

- Survey project on racial bias of facial detection technology.

Understanding the political polarization in Twitter amidst the COVID-19 pandemic

Computational Social Media, EPFL, Spring 2020

- Collected and analyzed tweets during the COVID outbreak in the United States.
- Analyzed political polarization during the disaster situation.

Discovering the Olympic Games

Data Visualization, EPFL, Spring 2020

- Designed interactive visualization of the history of the Olympics on the world map.
- Presented various narratives of world history through the history of the Olympics
- Selected as the top project out of 43 student projects

How different are rap flows? Comparative analysis on language and genre

Digital Musicology, EPFL, Spring 2020

- Analyzed sonic characteristics of American and French rap music.
- Compared inter-lingual and inter-genre differences of difference rap music.

Humans of Paris 19th-century

Fundamentals of Digital Humanities, EPFL, Fall 2019

- Constructed a webpage that provides closer experience towards 19th-century Paris.
- Cleaned and processed photograph metadata.

SCHOLARSHIPS

KAIST Support Scholarship

Merit-based scholarships for five semesters

Daejeon
2012;2014;2015

LANGUAGES

Korean (Native), **English** (Advanced), **French** (Intermediate), **Mandarin Chinese** (Basic)

ACTIVITIES

- | | |
|--|--------------|
| • Creator based on Instagram
<i>https://www.instagram.com/haen____k (written in Korean)</i> | 2018–Current |
| • University Choir
<i>Choeur Universitaire de Lausanne(2018 –Current), KAIST CHORUS (2012 –2016)</i> | 2012–Current |
| • Reading Sewol: Grieving one year of Sewol ferry disaster
<i>A performer of a memorial performance of Sewol ferry disaster</i> | Spring 2015 |
| • KAIST Undergraduate Student Council
<i>A student council member</i> | 2011 ; 2013 |

Last edited March 4, 2021