

# Sung Hyo Chung

✉ [sunghyo.chung@gmail.com](mailto:sunghyo.chung@gmail.com) | 🏠 [sunghyo.github.io](https://sunghyo.github.io) | 🎓 [sunghyo](#)

## Interests

---

- Human-Centered AI, Visualization with AI, and Computer Vision

## Education

---

### Korea University

M.ENG. IN COMPUTER SCIENCE AND ENGINEERING, GPA: 4.33 / 4.5

Seoul, Korea

Mar. 2017 – Aug. 2019

- Data and Visual Analytics Lab (DAVIAN), Advisor: Dr. Jaegul Choo

### Korea University

B.S IN COMPUTER SCIENCE AND ENGINEERING, GPA: 4.09 / 4.5

Seoul, Korea

Mar. 2013 – Feb. 2017

- Graduated with Great Honor

## Industry Experience

---

### Kakao Group (Kakao Corp, Kakao Enterprise, Kakao Brain)

Seongnam, Korea

RESEARCH ENGINEER

Jul. 2019 - Present

- **Multimodal Large Language Models (MLLM)**: Developed and fine-tuned a language and vision model tailored for the fashion industry, enabling image recommendations from product descriptions. Contributed to Korean MLLM model development and instruction set translation.
- **Optical character recognition (OCR)**: Worked on OCR-related projects, including developing scene text detection, recognition, and document understanding models.

### Naver Corp.

Seongnam, Korea

RESEARCH INTERN AT CLOVA VISION (OCR TEAM), Advisor: Dr. Hwalsuk Lee

Mar. 2018 - Aug. 2018

- **Optical character recognition (OCR)**: Worked on scene text detection and script identification tasks. Achieved first place on script identification task on ICDAR MLT 2017 dataset. (Jul. 2018, News article)

INTERNSHIP AT SEARCH, CRAWLING TEAM

Jul. 2016 - Aug. 2016

- **Website title assignment project**: Used machine learning techniques to select the best title of a website. Collected and pre-processed candidate titles of a website, then applied term frequency and POS tagging to select an appropriate title.

## Publications

---

- **Character-Level Long-Tailed Distribution in Scene Text Recognition**  
Sunghyun Park,\* **Sunghyo Chung**,\* Jungsoo Lee, and Jaegul Choo (\*: equal contributions). Under Review, Arxiv 2023
- **A Scanner Deeply: Predicting Gaze Heatmaps on Visualizations Using Crowdsourced Eye Movement Data**  
Sungbok Shin, **Sunghyo Chung**, Sanghyun Hong, and Niklas Elmqvist. IEEE Trans. on Visualization and Computer Graphics (TVCG), 2023 (Proc. IEEE VIS'22) (26.5% acceptance rate)
- **AnimeCeleb: Large-Scale Animation CelebHeads Dataset for Head Reenactment**  
Kangyeol Kim,\* Sunghyun Park,\* Jaeseong Lee,\* **Sunghyo Chung**, Junsoo Lee, and Jaegul Choo (\*: equal contributions). European Conference on Computer Vision (ECCV), 2022, WA (28.4% acceptance rate)
- **VATUN: Visual Analytics for Testing and Understanding Convolutional Neural Networks**  
Cheonbok Park,\* Soyoung Yang,\* Inyoup Na,\* **Sunghyo Chung**, Sungbok Shin, Bum Chul Kwon, Deokgun Park, and Jaegul Choo (\*: equal contributions). EG/VGTC Conference on Visualization (EuroVis), Short Paper, 2021
- **Exploring Unlabeled Faces for Novel Attribute Discovery**  
Hyojin Bahng, **Sunghyo Chung**, Seungjoo Yoo, and Jaegul Choo. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020, WA (22.1% acceptance rate)
- **Learning to Focus and Track Extreme Climate Events**  
Sookyung Kim,\* Sunghyun Park,\* **Sunghyo Chung**,\* Joonseok Lee, Yunsung Lee, Hyojin Kim, Mr Prabhat, and Jaegul Choo (\*: equal contributions). British Machine Vision Conference (BMVC), 2019, Cardiff, UK, Accepted as Spotlight Presentation (6.9% acceptance rate for spotlight papers).
- **Coloring With Limited Data: Few-Shot Colorization via Memory-Augmented Networks**  
Seungjoo Yoo, Hyojin Bahng, **Sunghyo Chung**, Junsoo Lee, Jaehyuk Chang, and Jaegul Choo. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019, CA (25.2% acceptance rate).
- **ReVACNN: Steering Convolutional Neural Network via Real-Time Visual Analytics**  
**Sunghyo Chung**, Cheonbok Park, Sangho Suh, Kyeongpil Kang, Jaegul Choo, and Bum Chul Kwon. Future of Interactive Learning Machines Workshop at NIPS (NIPS'16-FILM), 2016.

## Honors & Awards

---

- 2017 **Great Honor**, Winter 2017 Graduation *Korea University*
- 2015-16 **National Science and Engineering Scholarship**, 2015, 2016 *Korea Student Aid Foundation*
- 2013-16 **Semester High Honors**, 1st Semester 2013, 1st Semester 2014, 1st and 2nd Semester 2015, 1st Semester 2016 *Korea University*
- 2015 **Dean' s List**, 2nd Semester 2015 *Korea University*