JUNGSOO LEE

E-mail: jungsool@qti.qualcomm.com
Website: `https://leebebeto.github.io/`
Github: `https://github.com/leebebeto`

RESEARCH INTERESTS

I previously focused on addressing **robustness**, **domain shifts**, and **on-device learning** in computer vision. I am recently interested in **large multi-modal models**.

EDUCATION

Korea Advanced Institute of Science and Technology *March 2022 - Feb. 2024*
Master's and PhD Integrated Course *Jeongja, Korea*

- Graduate School of AI
- PhD Thesis: Addressing Distribution Shift in Computer Vision
- Total GPA of 3.91 / 4.3
- Advisor: Professor Jaegul Choo

Korea Advanced Institute of Science and Technology *March 2020 - Feb. 2022*
Master's Degree *Jeongja, Korea*

- Graduate School of AI
- Total GPA of 3.85 / 4.3
- Advisor: Professor Jaegul Choo

Korea University *Mar 2014 - Feb 2020*
Bachelor's Degree *Seoul, Korea*

- Bachelor of Industrial Management and Engineering
- Bachelor of Computer Science and Engineering
- Total GPA of 3.76 / 4.5

The Hong Kong University of Science and Technology *Jan 2019 - May 2019*
Exchange Program *Hong Kong, SAR*

PUBLICATION

[c.11] Towards Open-set Test-Time Adaptation Utilizing the Wisdom of Crowds in Entropy Minimization.
Jungsoo Lee, Debasmit Das, Jaegul Choo, and Sungha Choi.
(**ICCV** 2023).

[c.10] CAFA: Class-Aware Feature Alignment for Test-Time Adaptation.
Sanghun Jung, **Jungsoo Lee**, Nanhee Kim, Amirreza Shaban, Byron Boots, and Jaegul Choo.
(**ICCV** 2023).

[c.9] Deep Imbalanced Time-series Forecasting via Local Discrepancy Density.
Junwoo Park, **Jungsoo Lee**, Youngin Cho, Woncheol Shin, Dongmin Kim, Jaegul Choo, and Edward Choi.
(**ECML/PKDD** 2023).

[c.8] EcoTTA: Memory-Efficient Continual Test-time Adaptation via Self-distilled Regularization.
Junha Song, **Jungsoo Lee**, In So Kweon, and Sungha Choi.
(**CVPR** 2023).

[c.7] Revisiting the Importance of Amplifying Bias for Debiasing.
Jungsoo Lee*, Jeonghoon Park*, Daeyoung Kim*, Juyoung Lee, Edward Choi, and Jaegul Choo.
(**AAAI 2023**, accepted as Oral presentation).

[c.6] DASH: Visual Analytics for Debiasing Image Classification via User-Driven Synthetic Data Augmentation.

Bum Chul Kwon, **Jungsoo Lee**, Chaeyeon Chung, Nyoungwoo Lee, Ho-jin Choi, and Jaegul Choo.
(**EuroVis** 2022, Short paper, Honorable Mention Award).

[c.5] Improving Face Recognition with Large Age Gaps by Learning to Distinguish Children.
Jungsoo Lee*, Jooyeol Yun*, Sunghyun Park, Yonggyu Kim, and Jaegul Choo.
(**BMVC** 2021).

[c.4] Learning Debiased Representation via Disentangled Feature Augmentation.
Jungsoo Lee*, Eungyeup Kim*, Juyoung Lee, Jihyeon Lee, and Jaegul Choo.
(**NeurIPS** 2021, accepted as Oral presentation, 0.6% acceptance rate).

[c.3] Standardized Max Logit: A Simple yet Effective Approach for Identifying Unexpected Road Obstacles in Urban-scene Segmentation.
Sanghun Jung*, **Jungsoo Lee***, Daehoon Gwak, Sungha Choi, and Jaegul Choo.
(**ICCV** 2021, accepted as Oral presentation, 3% acceptance rate).

[c.2] Understanding Human-side Impact of Sequencing Images in Batch Labeling for Subjective Tasks.
Chaeyeon Chung*, **Jungsoo Lee***, Kyungmin Park, Junsoo Lee, Minjae Kim, Mookyung Song, Yeonwoo Kim, Jaegul Choo, and Sungsoo Ray Hong.
(**CSCW** 2021).

[c.1] Love in Lyrics: An Exploration of Supporting Textual Manifestation of Affection in Social Messaging.
Taewook Kim, **Jungsoo Lee**, Zhenhui Peng, and Xiaojuan Ma.
(**CSCW** 2019).

* indicates equal contribution.

EMPLOYMENT

Qualcomm Korea   *April. 2023 - Present*
Senior Research Engineer   *Yongsan, Korea*

Qualcomm Korea   *Oct. 2022 - April. 2023*
Research Engineer Intern   *Yongsan, Korea*

Kakao Enterprise, Vision AI   *Aug. 2021 - Aug. 2022*
AI Research Intern   *Pangyo, Korea*

NAVER WEBTOON Ltd.   *Jan. 2020 - Feb. 2020*
Research Engineer Intern   *Pangyo, Korea*

Auxiliary Police   *May. 2015 - Feb. 2017*
Served military service as human resources   *Ilsan, Korea*

AWARDS

KAIST AI Workshop, Best Poster Awards   *Jan. 2022*
Standardized Max Logits: A Simple yet Effective Approach for Identifying Unexpected Road Obstacles

INVITED TALKS

KAIST AI Workshop, Best Poster Awards   *Jan. 2022*
Standardized Max Logits: A Simple yet Effective Approach for Identifying Unexpected Road Obstacles

Korean AI Association   *Nov. 2021*
Learning Debiased Representation via Disentangled Feature Augmentation

LANGUAGE PROFICIENCY

Fluent in **English** and Native in **Korean**

- **TOEFL IBT:** 110 (R: 27, L:28, S: 28, W: 27) Expired on August 10, 2021.
- **GRE:** Verbal: 154 (65%), Quantitative: 170 (97%), Writing: 4.0 (60%) Expired on February 22, 2023.