Seyeon Choi

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Education

HS	**Sejong Science High School**	Mar. 2017 to Feb. 2020

BS **Yonsei university**, Computer Science — Mar. 2020 to Feb. 2025
- GPA: 4.08/4.3 (Transcript ↗)
- minor in Industrial Engineering
- got **high honor** in 2020-1
- got **honor** in 2021-1, 2022-1, 2023-2

University of California Berkeley, Exchange student — Jan. 2023 to May 2023
- GPA: 3.83/4.0 (Transcript ↗)
- **Coursework:** Abstract Algebra, Computer Security, Introduction to Analysis, Application of Parallel computing

PhD Seoul National University, IPAI — Mar. 2025 to
- Advised by Gunhee Kim.
- Currently at Vision&Learning Lab ↗.

Research interest

- Currently most interested in enhancing **LLM's capability as an embodied agent**, with a focus on grounding and interaction.
- Long-term goal: developing a more generalizable agent capable of flexible, human-like decision-making across diverse environments.
- Broader vision: bridging **symbolic reasoning** and **RL-driven approaches** to advance next-generation intelligent systems.

Experience

Industrial Statistics lab, Advised by Soyoung Sohn, Intern — Oct. 2021 to Mar. 2022 / 6 months
- Suggest a robust fake review detector, interpreting the situation as a 3-player game between promotive spammer, defaming spammer and detector. Not published.
- code ↗ report ↗

Data and Language Intelligence lab, Advised by Jinyeong Yeo, Intern — June 2023 - 9 months
- Supported experiments of CAFFEINE ↗. Had discussion about the topic "How to improve the quality of persona, especially when the information changed over time.".
- Supported experiments of Coffee: Boost Your Code LLMs by Fixing Bugs with Feedback ↗.

Vision and Language lab, Advised by Gunhee Kim, Intern — July 2024 - 3 months
- Currently working on **WebAgent** project.

Publications

Improving Multi-lingual Alignment Through Soft Contrastive Learning — Sep. 2023 to Feb. 2024

Minsu Park*, ***Seyeon Choi****, Chanyeol Choi, Junseong Kim, Jy-young Sohn

paper ↗ (Accepted to NAACL-workshop(SRW). Done during internship in Linq ↗)

Exploring Generalizable Features in Face Forgery Detection   Sep. 2023 to Dec. 2023

Sumin Lee, Sohyun Yoo, Minsu Park, *Seyeon Choi*

paper ⬈ (Accepted to IPIU. Done during class (software capstone design(1)). Advised by Prof. Seonjoo Kim.

Projects

CSI4101: Software Capstone design(1)   Dec. 2023

- Made robust deepfake detector, using supervised contrastive loss and Domain-adversarial network. Published as a paper, accepted in 2024 IPIU.
- youtube ⬈ paper ⬈

AAI 3201: Deep learning theory and practice   Dec. 2022

- Altered loss and backbones in baseline U-net for better performance in segmentation tasks.
- paper ⬈ presentation ⬈

CS267: Application of Parallel Computers   Jan. 2023

- Implemented Catmull-Clark Algorithm in multiple-GPUs.
- Report ⬈

CSI4102: Software Capstone design(2)   Mar. 2024

- Make a generalizable web agent, that improves the performance in an unseen website. We construct exemplar memory through the exploration phase and use it as an exemplar during the inference phase. Currently in progress.
- Final report ⬈ Poster ⬈

Additional Experience And Awards

PoolC (2020 - 2022): As a Member of PoolC ⬈ join multiple game development projects (WantToGoTrip ⬈, FindANewHome ⬈).

YAI (2022 - 2023): As a Member of YAI ⬈ generative model study(topics include VAE, diffusion, GAN), RL study. Also participated in face-classifier ⬈ project(code ⬈).

Technologies

Languages: Python(pytorch), C, Java, SQL, Go

Natural Languages: English(TOEFL 97/120)