

# Yoo Yeon Sung

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## EDUCATION

<b>University of Maryland</b> Ph.D. Candidate in College of Information <i>Advised by <a href="#">Jordan Boyd-Graber</a> and <a href="#">Naeemul Hassan</a></i>	<i>2020–Now</i>
<b>Korea University</b> M.S in Industrial Management Engineering <i>Advised by <a href="#">Seoung Bum Kim</a></i>	<i>2017–2019</i>
<b>Chung-Ang University</b> B.A in English Language and Literature (minor: Computer Science and Engineering)	<i>2013–2017</i>
<b>Cleveland State University</b> Exchange Student in English Language and Literature	<i>2014–2015</i>

## SELECTED PUBLICATIONS

### [VeriTD: Human-aligned Verification of LLM Task Decomposition](#)

**Yoo Yeon Sung**, Hannah Kim, Dan Zhang  
*Under Review*

### [Is Your Benchmark Truly Adversarial? AdvScore: Evaluating Human-Grounded Adversarialness](#)

**Yoo Yeon Sung**, Maharshi Gor, Eve Fleisig, Ishani Mondal, and Jordan Boyd-Graber  
*Under Review*

### [How the Advent of Ubiquitous Large Language Models Both Stymie and Turbocharge Dynamic Adversarial Question Generation](#)

**Yoo Yeon Sung**, Ishani Mondal, and Jordan Boyd-Graber  
*Under Review*

### [You Make Me Feel Like a Natural Question: Training QA Systems on Transformed Trivia Questions](#)

Tasnim Kabir, **Yoo Yeon Sung**, Saptarashmi Bandyopadhyay, Hao Zou, Abhranil Chandra, and Jordan Boyd-Graber  
*Empirical Methods in Natural Language Processing (EMNLP) 2024*

### [Not All Fake News is Written: A Dataset and Analysis of Misleading Video Headlines](#)

**Yoo Yeon Sung**, Jordan Boyd-Graber, and Naeemul Hassan  
*Empirical Methods in Natural Language Processing (EMNLP) 2023*

### [Topical Keyphrase Extraction with Hierarchical Semantic Networks](#)

**Yoo Yeon Sung** and Seoung Bum Kim  
*Decision Support Systems (DSS) 2020*

## PROFESSIONAL EXPERIENCE

**Research Intern, Megagon Labs** *2024 May–2024 Aug*  
*Advised by [Hannah Kim](#) and [Dan Zhang](#)*

- Developed human-aligned LLM planner pipeline with task-specific LLM agents to perform complex reasoning and fact-checking tasks that are not solvable with n-shot CoT prompting framework
- Built a verification framework for the LLM planner accounting for human interaction with human-designed subtask taxonomy and demonstrated its generalization across reasoning tasks

**Visiting Researcher, KAIST** *2024 May–2024 Aug*  
*Advised by [Jaegul Choo](#) and collaborated with [Papago](#), [Naver Labs](#)*

- Developed machine translation modules that leverage user logs and post-edits to improve accuracy and provide personalized, context-aware translations tailored to user preferences
- Applied graph models to address multi-hop challenges in commonsense and reasoning QA tasks

**Graduate Student Research Assistant, Korea University** *2017 May–2019 Aug*

- Designed graph-based hierarchical keyphrase extraction models for corpus-level analysis in science domain
- Developed document summarization models with generative and Seq2Seq modules with hierarchical attention mechanism and GANs

## AWARDS

### Doctoral Students Research Awards

*Awarded for distinguished research achievements, University of Maryland*

*Spring 2022*

### Chung Woon Shik Scholarship

*Awarded for outstanding academic excellence, Chung-Ang University*

*Spring 2016*

### Chung Woon Shik Scholarship

*Awarded for outstanding academic excellence, Chung-Ang University*

*Fall 2016*

## MENTORING EXPERIENCE

- **2024 UMD Technica & Hackathon** Program Organizer and Mentor
- **CMSC 470: Natural Language Processing** Teaching Assistant
- **INST 326: Object-Oriented Programming** Teaching Assistant
- **Mentored students for Research**
  - Tasnim Kabir (UMD Ph.D)
  - Ishan Upadhyay(IIT Bombay B.S)
  - Christina Zhang (UMD B.S)
  - Emily Kong (UMD B.S)

## PROFESSIONAL SERVICE

- **Peer Review**  
ACL 2021, NAACL 2022, EMNLP 2022, ACL ARR (2023, 2024)
- **ACL 2023 Student Research Workshop**  
*Undergraduate Mentor*

## SKILLS

- **Programming:** Python, R, C++, Git, NodeJS, JavaScript, HTML, CSS, Pandas, L<sup>A</sup>T<sub>E</sub>X
- **Languages:** Korean (Native), English (Fluent)

## REFERENCES

### Jordan Boyd-Graber

Professor at University of Maryland

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### Naeemul Hassan

Assistant Professor at University of Maryland

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### Jaegul Choo

Professor at KAIST

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