Jinsook Lee

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EDUCATION

2022-present	**Cornell University** *Ph.D. in Information Science* Committee: René F. Kizilcec (co-chair), Thorsten Joachims (co-chair), Nikhil Garg
2025	*M.S. Information Science*
2019	**Korea University** *M.S. in Fashion Marketing* Thesis: A Study on Clothing Reverse Logistics System Using Social Network Analysis
2017	*B.S. in Home Economics Education*

PUBLICATIONS

JOURNAL ARTICLES & CONFERENCES

* denotes equal contribution

P7 Bakhtawar Ahtisham, Kirk Vanacore, **Jinsook Lee**, Zhuqian Zhou, Doug Pietrzak & René F. Kizilcec (2026). AI Annotation Orchestration: Evaluating LLM verifiers to Improve the Quality of LLM Annotations in Learning Analytics. *Learning Analytics and Knowledge (LAK26)* [arXiv]

P6 **Jinsook Lee**, Emma Harvey, Joyce Zhou, Nikhil Garg, Thorsten Joachims & René F. Kizilcec (2024). Ending Affirmative Action Harms Diversity Without Improving Academic Merit. *AAAI/ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO' 24)*. [Paper] [Video]

P5 **Jinsook Lee**, Yann Hicke, Renzhe Yu, Chris Brooks, & René F. Kizilcec (2024). The life cycle of large language models in education: A framework for understanding sources of bias. *British Journal of Educational Technology, 55*(5), 1982–2002. [Paper]

P4 AJ Alvero, **Jinsook Lee**, Alejandra Regla-vargas, René F. Kizilcec, Thorsten Joachims, & anthony lising anotonio. (2024). Large Language Models, Social Demography, and Hegemony: Comparing Authorship in Human and Synthetic Text. *Journal of Big Data, 11*(1), 138. [Paper] [Press]

P3 **Jinsook Lee**, Kibum Moon, Soyeon Han, Sukang Lee, Hyejung Kwon, & Jaeho Han (2021). Development and Application of an AI-Powered Adaptive Course Recommender System in Higher Education: An Example from K University. *Journal of Educational Technology, 37*(2), 267-307. [Paper] [Press]

P2 Kibum Moon, Jinwon Kim, & **Jinsook Lee** (2021). The Early Prediction Model of Student Performance Based on Deep Neural Network Using Massive LMS Log Data. *Journal of the Korea Contents Association, 21*(10), 1-10. [Paper]

P1 **Jinsook Lee** & Yoon-Jung Lee (2019). An Exploratory Study of the Korean Reverse Logistics System for Clothing. *Journal of Korean Society of Clothing and Textiles, 43*(1), 138-153. [Paper]

Workshop & non-archival conference publications

W5   **Jinsook Lee**, AJ Alvero, Thorsten Joachims & René F. Kizilcec. (2025). Poor Alignment and Steerability of Large Language Models: Evidence from College Admission Essays. *Conference on Language Modeling (COLM25) SoLAR workshop, Social Sim' workshop* [arXiv] [Press]

W4   **Jinsook Lee**, Yann Hicke, Renzhe Yu, Chris Brooks & René F. Kizilcec. (2024). When Bias Meets Personalization: Challenges and Perspectives in LLM-Based Educational Technology. *Learning Analytics and Knowledge (LAK24) Fostering Ethical and Equitable Learning Analytics workshop*

W3   **Jinsook Lee**, AJ Alvero, Thorsten Joachims & René F. Kizilcec. (2024). Application Essays and Characters in Higher Education Admissions. *2024 Annual Meeting of the National Council on Measurement in Education (NCME24)*

W2   **Jinsook Lee**, Bradon Thymes, Joyce Zhou, Thorsten Joachims, & René F. Kizilcec (2023). Augmenting Holistic Review in University Admission using Natural Language Processing for Essays and Recommendation Letters. *Artificial Intelligence in Education (AIED23) EDI in EdTech R&D Workshop* [arXiv]

W1   **Jinsook Lee** & Yoon-Jung Lee. (2021). Exploring Korean Clothing Reverse Logistics System Using Natural Language Processing and Network Analysis. *2021 Nature Conferences*

Book Chapter

B1   Sebastian Munoz-Najar Galvez, **Jinsook Lee**, AJ. Alvero, Sheridan Stewart, René F. Kizilcec, & Amy Desiderio (2025). Artificial Communication and Media Realism in College Admissions *The Digitized Campus: Artificial Intelligence and Big Data in Higher Education*

Work in progress

WP2   **Jinsook Lee**, Conrad Bochers, AJ Alvero, Thorsten Joachims, & René F. Kizilcec. Algorithmic Voices in College Admissions? How Large Language Models Reshape Admission Chances across Socioeconomic Groups

WP1   **Jinsook Lee**, Kirk Vanacore, Zhuqian Zhou, Bakhtawar Ahtisham & René F. Kizilcec. Dynamic Topic Segmentation in Tutoring Dialogues: Boundaries with Tutoring Move-aware

Awards & Grants

2025	**Siegel PiTech PhD Impact Fellowship**
2024	**Cornell Center for Social Sciences Grant**
2020	**Best Program Award** *Korea University*
2020	**Best Practice Nominee** *Tableau Korea*

WORK EXPERIENCE

2025   **NYC FIRST**
Siegel PiTech fellow
Project Topic: Building Data Infrastructure for NYC FIRST: An Educational Third Space for STEM
[blog]
Supervisor: Kate Karageorgiou

2019-2022   **Korea University**
Data Scientist
Developed the first official AI-powered course/major recommender system in South Korea
MOU Project with K-MOOC to develop a course recommender system
Developed "Student interdisciplinary index" and created a dashboard across colleges
Analyzed online learning patterns and course survey results during COVID-19 using LMS dataset
Supervisor: Gyu-Tae Kim, Ph.D.

2019   **Arthur D. Little**
Intern
Analyzed customer review text data using NLP methods to develop go-to-market strategies for a leading Korean motorcycle manufacturer

INVITED TALKS

2023   Bias in Large Language Models in Education: Sources, Measures, and Mitigation Strategies
National Council on Measurement in Education-AI in Measurement and Education (NCME-AIMC)

2021   How We Upgrade 'AI-advisor' with Graph and the Future of Personalized Recommendation Services in Higher Education [video]
The 7th K.U. Innovation Forum, Seoul, South Korea

2020   Best Practice of University Innovation Case of Data Analysis with Tableau: Korea University [video]
Tableau Korea Webinar

2020   Online Learning Patterns and Satisfaction Based on Lecture Clusters in the Pandemic Era
The 3rd K.U. Innovation Forum, Seoul, Republic of Korea

TEACHING

TEACHING ASSISTANT

	Cornell University	
2025, 2024, 2022	Learning Analytics	Prof. René F. Kizilcec
2024	Designing Technologies for Social Impact	Prof. Chris Csíkszentmihályi
	Korea University	
2017	Fashion Textiles	Prof. Yoon-Jung Lee

TEACHER TRAINING

2017   Yoo-bong Girl's High School, Chuncheon, South Korea

SERVICE

2025-
2026
Festival of Learning 2026 *Student Assistant*

Reviewer

2025	Conference on Langauge Modeling Social Sim' workshop (COLM25)
2025	ACM Conference on Fairness, Accountability, and Transparency (FAccT'25)
2025	Journal of Learning Analytics (JLA)
2025	International Journal of Artificial Intelligence in Education (IJAIED)
2025	Frontiers in Psychiatry