Gyuri Kang

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Research Interests

Digital Environmental Humanities; Cultural Analytics; Computational Literary Studies; NLP; Digital Libraries; Eco-criticism; Game Studies

Education

Indiana University, Bloomington Bloomington, IN
Ph.D. in Information Science Aug 2023 – Present
Minor in Computational Linguistics
Research Topic: *Content Analysis of Contemporary Eco-fiction*
Advisors: Professor John A. Walsh *GPA: 3.98/4.0*

University at Albany, State University of New York Albany, NY
MS in Information Science Aug 2020 – Dec 2022
Concentration: Data Analytics
Advisor: Professor Donghee Sinn *GPA: 3.9/4.0*

University at Albany, State University of New York Albany, NY
MA in English (*with distinction*) Aug 2020 – Dec 2022
Thesis: *Practicing Re-Enlightenment: Technology Revisited in the Age of Climate Change*
Description: This thesis explores the role of technology in addressing the climate crisis through a critical analysis of Amitav Ghosh's two nonfiction books, *The Great Derangement* and *The Nutmeg's Curse*. I confront Ghosh's argument about technology as the enemy of nature and nonhuman others, arguing that technology can help humans find the hidden realities of climate change.
Advisors: Professors Mike Hill and Aashish Kaul *Major GPA: 4.0/4.0*

Hanyang University Ansan, Republic of Korea
BA in English Language and Culture Mar 2015 – Feb 2019
Graduated *Magna Cum Laude*
Advisors: Professors Yong-soo Kim and Kenneth David Eckert *GPA: 4.22/4.5*

University of Oregon Eugene, OR
Exchange Student Sep 2017 – June 2018
Major: English *GPA: 3.7/4.0*

Awards, Honors, and Scholarships

Luddy Outstanding Research Award	2025
Luddy Hackathon 2025 2nd Place Award (Indiana University)	2025

DHSI 2025 Tuition Scholarship (Digital Humanities Summer Institute)	2025
Spring 2025 LIS Student Program (CollectionBuilder)	2025
ILS Ph.D. Travel Award (Indiana University)	2024
HTRC TORCHLIGHT Hackathon Funding (HathiTrust Research Center)	2024
ILS Doctoral Research Forum 2023 1st Place Award (Indiana University)	2023
Luddy Doctoral AI Fellowship (Indiana University)	2023
University Libraries' 2022 Pritchard Award (University at Albany)	2022
PRIME Scholarship (Hanyang University)	2016 – 2018
Academic Honor Roll (University of Oregon)	2017
Academic Excellence Award (Hanyang University)	2017
Capstone Design Award (Hanyang University)	2017
Self-Nomination Award (Hanyang University)	2015

Publications

An analysis of poet demographic and thematic diversity in a poetry collection for inclusive AI
Choi, K., & **Kang, G.** (2025). *Information Research: An International Electronic Journal, 30.*, 610-617. https://doi.org/10.47989/ir30iConf47263

Technology education in academic libraries: An analysis of library workshops
Kang, G., & Sinn, D. (2024). *The Journal of Academic Librarianship, 50*(2), 1–8. https://doi.org/10.1016/j.acalib.2024.102856

Research Experience

Illuminating use, misuse, and abuse of online book reviews
Advisor: Professor Yuerong Hu (Indiana University)   Spring 2025 –
This study aims to get a critical understanding of the appropriate use, misuse, or abuse of online book reviews, to inform the development of online book reviews, with emphasis on ethics, fairness, and security.

Unbiased AI for Poetry Analysis: Toward Equitable and Diverse Digital Libraries   Spring 2024 –
Advisor: Professor Kahyun Choi (University of Illinois)
It is critical to build and annotate poetry data written by underrepresented groups in order to mitigate biases in AI systems designed for poetry analysis. This is important as AI models tend to favor data generated by major groups and often overlook or penalize data from minority groups. This phenomenon is prevalent in various types of data, including poetry. To leverage the gap between data by major and minor groups, I have contributed my expertise in HathiTrust Digital Libraries and poetry to the project by participating in the collection and analysis of underrepresented poetry data.

Nature and the Environment in Percy Bysshe Shelley and Algernon Charles Swinburne   Spring 2024 – Spring 2025
Advisor: Professor John A. Walsh (Indiana University)

This project investigates the potential relationships between Algernon Charles Swinburne and Percy Bysshe Shelley by comparing their poetry with a specific focus on nature themes through computational text analysis methods. The data analysis methods include topic modeling, sentiment analysis, and semantic network analysis using text mining tools, such as Python and R, and visualization tools, such as Gephi and Tableau, with reference to the existing literature. First, we will build topic models and word-frequency lists for each poet's poems to examine nature-related topics and keywords. Next, we will perform network analysis on the topic models of both poets. Finally, sentiment analysis will be conducted depending on the semantically meaningful outputs from topic modeling. By doing so, we hope to reveal influential relationships between Swinburne and Shelley. With the aim at publishing at potential journals, the goal of this project is to write a publishable research paper.

Technology Education in Academic Libraries: An Analysis of Library Workshops   Fall 2022 – Fall 2023
Advisor: Professor Donghee Sinn (University at Albany)
Present a comprehensive understanding of technology instruction in the US academic library by analyzing the titles and descriptions of workshops provided by 43 academic libraries in the United States. Use a mixed method of qualitative and quantitative analysis by applying a content analysis approach as well as text mining techniques.

Computational Analysis of Fossil Fuel Writing Project   Spring 2022
Advisor: Professor Mike Hill (University at Albany)
Worked as a research assistant in the "Computational Analysis of Fossil Fuel Writing Project," led by the Literary Epistemology Working Group, which was born out of the Re:Enlightenment Project. In addition to myself, this group consisted of Professors Mike Hill (UAlbany Environmental Humanities Lab), Mark Algee-Hewitt (Stanford Literary Lab), Yohei Igarashi (UConn Humanities Institute), and Aaron Hanlon (Science, Technology, and Society at Colby). Collected and cleaned news data about oil and fossil fuel as well as assisted in organizing and contributing to the symposium: "Fact, Fiction, and Disinformation: A Computational Analysis of Fossil Fuel Writing Across Genres."

English Translation Project   Spring 2017
Advisor: Professor Sang Jo Kim (Hanyang University)
Translated a portion of a Korean essay into English as an undergraduate research assistant. (https://neolook.com/archives/20151103g)

Teaching Experience   **Associate Instructor**   Spring 2024 –
ILS-Z652: DIGITAL LIBRARIES (Fall 2024)
ILS-Z511: DATABASE DESIGN (Spring 2024)

Graduate Assistant for Digital Scholarship Fall 2021 – Fall 2022
Lower Level Lab, University at Albany Libraries
Run in-person workshops and make online tutorials for computational tools, including Python and QGIS.
Topics: *Open Climate Data QGIS (Open Access Week 2022), Digital Humanities Workshop: Mapping Literature with QGIS, Data Cleaning and Management Using Python (Love Data Week 2022), Python Basics: Introduction to Coding, Python Basics: Making a Text-based Adventure Game, Python Basics: Making a Game of Connect 4*

Guest Speaker Fall 2022
IST 601: The Information Environment
Led the entire class on October 24, 2022 as a guest speaker. Provided an informative presentation to students regarding the role of academic libraries in supporting the open access (OA) movement and facilitated the class discussion.
Topics: Information Publications, Publishing Organizations, and Open Movement

Work Experience

Website Rebuilding, Re:Enlightenment Project Spring 2023
Graduate Assistant
Rebuilt the Re:Enlightenment Project website for the Re:X event in June.
(https://reenlightenment.org/reresources/)
Supervisor: Professor Leslie Santee Siskin

Lower Level Lab, University at Albany Libraries Fall 2021 – Fall 2022
Graduate Assistant for Digital Scholarship
Participate in needs assessment and operational planning for sustainable Digital Scholarship services going forward. Work with Coordinator for Scholarly Communication and Digital Scholarship Instructional Specialist (DSIS) to update the Digital Scholarship Services Web presence. Working with DSIS, create tutorials for website and run workshops on digital scholarship tools, focusing on those that facilitate digital humanities projects. Working with Coordinator and other library stakeholders, assist with publicity and outreach to humanities departments to promote digital humanities projects, and help with a digital scholarship conference.
Supervisor: Elaine M. Lasda

Lower Level Lab, University at Albany Libraries Fall 2021
Information Science Internship
Interned at the Lower Level Lab, the Digital Scholarship Center at UAlbany.
Advisor: Professor Donghee Sinn
Supervisor: Elaine M. Lasda

Blogger's English Library 2020 – 2021

English Language Academy
Taught English as a second language to K-12 students.

Gwacheon Social Welfare Center   2015 – 2017
Social Services Organization
Taught English as a second language to K-12 students.

Presentations

Kang, G. (2025). Content Analysis of Contemporary Eco-fiction Novels. *iConference 2025* Doctoral Colloquium. Indiana University, Bloomington, IN. March 18 - 22.

Choi, K. & **Kang, G.** (2025). An Analysis of Poet Demographic and Thematic Diversity in a Poetry Collection for Inclusive AI. *iConference 2025*. Indiana University, Bloomington, IN. March 18 - 22.

Kang, G. (2025). Nonhuman Agency in Contemporary Eco-fiction Novels. *2025 ILS Doctoral Poster Forum*. Indiana University, Bloomington, IN. February 28.

Kang, G. (2024). Nature and the Environment in Percy Bysshe Shelley and Algernon Charles Swinburne. *2024 ILS Doctoral Research Forum*. Indiana University, Bloomington, IN. September 28. https://drf-ils.github.io/2024/

Kang, G. & Walsh, J. A. (2024). "The effect of a thing": Nature and the Environment in Percy Bysshe Shelley and Algernon Charles Swinburne. *Digital Humanities Congress 2024*. University of Sheffield, Sheffield, UK. September 4 - 5. https://www.dhi.ac.uk/dhc/2024/

Kang, G. (2024). Computational Reading of Contemporary Ecofiction Novels: A Pilot Study. *2024 ILS Doctoral Poster Forum*. Indiana University, Bloomington, IN. March 1.

Kang, G. (2024). Computational Reading of Contemporary Ecofiction Novels: A Pilot Study. *2024 Luddy PhD Visit Day*. Indiana University, Bloomington, IN. February 29.
Selected PhD Student

Kang, G. (2023). How Uncanny is the Realist Novel?: Text Mining English Novels of the Long Eighteenth Century. *2023 ILS Doctoral Research Forum*. Indiana University, Bloomington, IN. October 7. https://drf-ils.github.io/2023/
Best Presentation Award, 1st place

Kang, G. (2023). The Roles of Academic Libraries in Technology Education for Academic Communities. *2023 New Trends in Informatics Research Conference.* University at Albany, Albany, NY. April 26.

Kang, G. (2022). Yi Sang's Wings: Postcolonial Consciousness of Subjectivity. *2022 SUNY Albany EGSO Conference.* University at Albany, Albany, NY. Virtual. April 2.

Kang, G. (2021). Digital Humanities in Academic Libraries. *2021 Georgetown EGSA Conference.* https://egsa922.wixsite.com/my-site. Georgetown University, Washington, D.C. Virtual. April 30.

Kang, G. (2021). The Influence of Milieu: Jane Eyre's Study of Liberty and Freedom. *2021 SUNY Albany EGSO Graduate-Student Symposium.* University at Albany, Albany, NY. Virtual. April 23.

Skills

Technical
Programming: Python, R, Git, SQL, LaTeX, XML, HTML
Tools and software: GitHub, Visual Studio Code, Jupyter Notebook, RStudio, MALLET, Tableau, AntConc, Voyant Tools, QGIS, ArcGIS, Gephi, KNIME, MS Office, Profiler Plus

Languages
Korean (native), English (fluent), Japanese (intermediate), French (basic)

Certifications

IRB, Human Subject Research, CITI Program	2021
The Seven Habits of Highly Effective Students, Franklin Covey Co.	2015

Professional Memberships

Association for Computers and the Humanities (ACH)	Fall 2024 –
Northeast Modern Language Association (NeMLA)	Fall 2022 – Spring 2024
SUNY Librarians Association	Fall 2021 – Fall 2023

References

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Luddy Hall 2134

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