

Hyung Wook Choi

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EDUCATION

Drexel University, PA, USA

- Ph.D. in Information Science Sep 2022 – Jun 2026
 - Advisor: Dr. Mat Kelly
 - Recipient of Graduate College Gold Level Doctoral Fellowship from Drexel University
 - Core Classes
Science of Science, Qualitative Research and Data Analysis, NLP + X, Deep Learning's Side Effect
- M.S. in Data Science Sep 2019 – Mar 2022
 - Honored with Upsilon Pi Epsilon National Honor Society for the Computing and Information Disciplines
 - Core Classes
Introduction to Artificial Intelligence, Human-Computer Interaction, Web Systems & Architecture, Database Management Systems, Data Science Analysis and Interpretation

Ewha Womans University, Seoul, Republic of Korea

- M.A. in Library and Information Science Sep 2015 – Aug 2017
 - Thesis: An Investigation on Data-Driven Sociology
 - Advisor: Dr. EunKyung Chung
 - Focus: Data Citation Index, Data Visualization, Network Analysis, Scholarly Network
- B.A. in Library and Information Science Mar 2011 – Aug 2015
 - Acquisition of 2nd Formal Librarian license
- B.A. in International Office Administration
 - Double Major

IESEG School of Management, Paris-La Défense, France

- International Summer Academy Jul 2012 – Aug 2012
 - Core Classes
International Human Resources Management, International Business Law, Market Research Survey

Certification from Coursera

- Machine Learning Foundations: A Case Study Approach by University of Washington
- Web of Data by EIT Digital
- Python for Everybody Specialization by University of Michigan

PUBLICATIONS

JOURNALS

- [13] Reid, Travis, Alex H. Poole, Hyung Wook Choi, Christopher Rauch, Mat Kelly, Michael L. Nelson, and Michele C. Weigle. “Problems With Archiving and Replaying Current Web Advertisements” *Journal of the Association for Information Science and Technology (JASIST)*. [SSCI] [Accepted]
- [12] Hyung Wook Choi, Jonathan Wheeler, Weimao Ke, Lei Wang, Jane Greenberg, and Mat Kelly. “Liberation of LMS-siloed Instructional Data” *Code4Lib Journal*, 61. Oct 2025.
- [11] Reid, Travis, Alex H. Poole, Hyung Wook Choi, Christopher Rauch, Mat Kelly, Michael L. Nelson, and Michele C. Weigle. “Archiving and Replaying Current Web Advertisements: Challenges and Opportunities” *arXiv preprint arXiv:2502.01525*. Mar 2025.
- [10] Phuong Nguyen, Melody K Schiaffino, Zhan Zhang, Hyung Wook Choi, Jina Huh-Yoo, “Toward alert triage: scalable qualitative coding framework for analyzing alert notes from the Telehealth Intervention Program for Seniors (TIPS)” *JAMIA Open*, 6(3). Oct 2023. [SCI]
- [09] Ye-Jin Choi, Hyung Wook Choi, Soon Kim, “Preprint acceptance policies of Asian academic society journals in 2020” *Science Editing*, 8(1), 10-17. Feb 2021. [SCOPUS] [Best Paper Award]
- [08] Couri VanDam, Bum Chul Kwon, Stephanie Chiuve, Hyung Wook Choi, Paul Entler, Shelia Cotton, Pang-Ning Tan, Jina Huh-Yoo, “Improving Heart Disease Risk Through Quality-Focused Diet Logging: Pre-post Study of a Diet Quality Tracking App,” *JMIR mHealth and uHealth*, 8(12), e21733. Dec 2020. [SCI]

- [07] Ye-Jin Choi, Hyung Wook Choi, Soon Kim, “Compliance of “principles of transparency and best practice in scholarly publishing” in Korean academic society-published journals listed in Journal Citation Reports,” *Science Editing*, 7(1), 24-33. Feb 2020. [SCOPUS]
- [06] Hyung Wook Choi, Ye-Jin Choi, Soon Kim, “Compliance of “Principles of transparency and best practice in scholarly publishing” in academic society published journals,” *Science Editing*, 6(2), 112-121, Aug 2019. [SCOPUS]
- [05] Hyung Wook Choi, Ye Jin Choi, Soon Kim, “Network analysis of scientific collaboration in North Korea,” *Science Editing*, 6(1), 25-34, Feb 2019. [SCOPUS]
- [04] Soon Kim, Hyung Wook Choi, “Status of digital standards, licensing types, and archiving policies in Asian open access journals registered in Directory of Open Access Journals,” *Science Editing*, 6(1), 41-46, Feb 2019. [SCOPUS]
- [03] Soon Kim, Hyung Wook Choi, Nayon Kim, EunKyung Chung, Jae Yun Lee, “Comparative analysis of manuscript management systems for scholarly publishing,” *Science Editing*, 5(2), 124-134, Aug 2018. [SCOPUS]
- [02] Hyung Wook Choi, Ye-Jin Choi, So-Yeon Nam, “Time Series Analysis of Intellectual Structure and Research Trend Changes in the Field of Library and Information Science: 2003 to 2017,” *Journal of the Korean Society for Information Management*, 35(2), 89-114, Jun 2018. [KCI, Accredited by National Research Foundation of Korea]
- [01] Hyung Wook Choi, EunKyung Chung, “An Investigation on Characteristics and Intellectual Structure of Sociology by Analyzing Cited Data,” *Journal of the Korean Society for Information Management*, 34(3), 109-124, Sep 2017. [KCI, Accredited by National Research Foundation of Korea]

CONFERENCES / POSTERS

- [09] Rauch, Christopher B., Hyung Wook Choi, and Mat Kelly, “OntExtract: PROV-O Provenance Tracking for Document Analysis Workflows,” *2025 ACM/IEEE Joint Conference on Digital Libraries (JCDL 2025)*. Dec 2025.
- [08] Rauch, Christopher B., Hyung Wook Choi, and Mat Kelly, “Beyond the ‘Idols of the Marketplace’: Managing Semantic Change in Research,” *Proceedings from the Document Academy*, 11(2) Sep 2024.
- [07] Hyung Wook Choi, Mat Kelly, “Documenting Semantic Shifts Across Domains with Version Control,” *Document Academy 2024 Annual Meeting (DOCAM '24)*. Sep 2024.
- [06] Hyung Wook Choi, Mat Kelly, “On Identifying Points of Semantic Shift Across Domains,” *the 17th International Conference on Metadata and Semantic Research (MTSR 2023)*. Oct 2023.
- [05] Hyung Wook Choi, Mat Kelly, “Examining Existing Approaches Toward Semantic Disambiguation,” *Knowledge Organization across Disciplines, Domains, Services and Technologies*, 349-352. May 2022.
- [04] Hyung Wook Choi, Rose Ann DiMaria-Ghalili, Mat Kelly, Alexander Poole, Erjia Yan, Jina Huh-Yoo, “Older Adults and Technology Use: A Systematic Literature Review,” *Innovation in Aging*, 4: 823. Dec 2020.
- [03] Hyung Wook Choi, “A Case Study on the Public Big Data Production and Distribution Status in the US,” *Proceedings of the 24th Conference of Korean Society for Information Management*, Aug 2017.
- [02] Hyung Wook Choi, “A Study on the Characteristics of Sociology Using Data Citation Index,” *Workshop on Network Big Data Analysis for Information Management*, Feb 2017.
- [01] Hyung Wook Choi, “An Analysis of Characteristics of Interdisciplinary Journals by Examining Co-Author Network,” in *Proceedings of the 23th Conference of Korean Society for Information Management*, 23-27. Aug 2016.

RESEARCH EXPERIENCE

Preserving Personalized Advertisements for More Accurate Web Archives

- Research Assistant, Drexel University Aug 2024 – Aug 2025
 - Supervisor: Dr. Mat Kelly, Dr. Alex Poole, Dr. Michele Weigle, Dr. Michael Nelson
 - Funding Institution: Institute of Museum and Library Services (IMLS) FY2024 National Leadership Grants
 - Persona development related to personalized web ads
 - Evaluating data relative to web archives’ holdings and captures based on users’ expectations

Saving Ads: Assessing and Improving Web Archives' Holdings of Online Advertisements	Dec 2023 – Aug 2024
▪ Research Assistant, Drexel University <ul style="list-style-type: none"> • Supervisor: Dr. Mat Kelly, Dr. Alex Poole, Dr. Michele Weigle, Dr. Michael Nelson • Funding Institution: Institute of Museum and Library Services (IMLS) FY2022 National Leadership Grants • Reviewed on literature about web advertisements and dynamic contents 	
LIS Education And Data Science-Integrated Network Group (LEADING)	Dec 2023 – Jun 2024
▪ Research Assistant, Drexel University <ul style="list-style-type: none"> • Supervisor: Dr. Mat Kelly, Dr. Jonathan Wheeler, Dr. Weimao Ke, Dr. Lei Wang • Funding Institution: Institute of Museum and Library Services (IMLS), Laura Bush 21st Century Librarian Program (LB21) • Architecturing in how to pull and archive the e-learning systems materials • Conducted overall review on the materials and organized into papers 	
A Visual Analytic Observatory of Scientific Knowledge (VAO)	Feb 2020 – Jun 2020
▪ Research Assistant, Drexel University <ul style="list-style-type: none"> • Supervisor: Dr. Choamei Chen • Funding Institution: NSF (Award 1633286) • Collected and analyzed COVID-19 related studies and articles extensively • Conducted comprehensive data visualization of collected dataset to clarify the relations 	
Metrics Development for Research Data Use	May 2018 – Oct 2018
▪ Research Assistant, Ewha Womans University <ul style="list-style-type: none"> • Supervisor: Prof. EunKyung Chung • Funding Institution: Korea Institute of Science and Technology Information (KISTI) • Complete enumeration research on data citation standard and examples • Participated on developing a new metrics to include citation and usage of shared research data • Collected and analyzed the status of research data usage from discrete journals 	
An Approach on Promoting Big Data Uses with National Library of Korea	Jun 2017 – Sep 2017
▪ Research Assistant, Ewha Womans University <ul style="list-style-type: none"> • Supervisor: Prof. EunKyung Chung • Funding Institution: Korea Institute of Science and Technology Information (KISTI) & ARGONET Co. • Conducted comprehensive analysis on distribution and utilization status of public open data in Europe and Singapore • Assisted on deriving the role of the National Library to facilitate the use of Big Data 	
Development of Global Scholarly Communication Platform and Online Journal Publishing System	Jun 2017 – Sep 2017
▪ Research Assistant, Ewha Womans University <ul style="list-style-type: none"> • Supervisor: Prof. Jae-Yun Lee & Prof. EunKyung Chung • Funding Institution: National Research Foundation of Korea • Researched current status of online journal publishing platforms to suggest a paragon for Korean companies • Conducted comprehensive analysis on platforms of Elsevier, Editorial Manager, and ScholarOne 	
Public Library Specialization Service Plan through Library Big Data Analysis	Jun 2016 – Sep 2016
▪ Research Assistant, Ewha Womans University <ul style="list-style-type: none"> • Supervisor: Prof. EunKyung Chung • Funding Institution: Korea Institute of Science and Technology Information • Collected book checking out data from public library in Seoul • Analyzed on user group data, user book checking out pattern, and specialization service proposal by region 	
AWARDS & SCHOLARSHIPS	
▪ Teaching Assistant Scholarship Institution: Drexel University Classes: INFO649 Library Programming / INFO687 Issues in Information Literacy	Sep 2025 – Aug 2026
▪ Research Assistant Scholarship Institution: Drexel University Full scholarship for the doctoral program	Sep 2022 – Aug 2025
▪ Graduate College Gold Level Doctoral Fellowship Institution: Drexel University For winning a open competition in Drexel's doctoral-level programs	Sep 2022 – Aug 2024
▪ Code4Lib 2022 Diversity Scholarship Institution: Code4Lib For attending at Code4Lib 2022 in Buffalo, NY	May 2022 – May 2022
▪ Upsilon Pi Epsilon National Honor Society Institution: Upsilon Pi Epsilon International Society Honored for achieving outstanding achievement in Computing and Information disciplines	Oct 2020 – Oct 2020

PROFESSIONAL AFFILIATIONS & ACTIVITIES	<ul style="list-style-type: none"> ▪ Research Assistant Scholarship Institution: Drexel University For assisting Prof. Chaomei Chen with a NSF Granted project ▪ Research Assistant Scholarship Institution: Ewha Womans University For assisting Prof. EunKyung Chung for class and project research ▪ Koo Ja-Young Scholarship Institution: Ewha Womans University For assisting the department by managing the budget ▪ Department Assistant Scholarship Institution: Ewha Womans University For assisting the department comprehensively ▪ Social Science Scholarship Institution: Ewha Womans University For working as an Student IT Assistant ▪ Ewha Serving-Truth Scholarship Institution: Ewha Womans University For working as an Ewha Weekly Newspaper Senior Journalist ▪ Ewha Serving-Goodness Scholarship Institution: Ewha Womans University For working as an Ewha Weekly Newspaper Junior Journalist 	Feb 2020 – Jun 2020 Sep 2016 – Dec 2016 Mar 2016 – Aug 2016 Sep 2015 – Dec 2015 Mar 2013 – Aug 2013 Sep 2012 – Dec 2012 Mar 2012 – Aug 2012
CAMPUS ACTIVITIES	<p>National Library for Children and Young Library Internship Seoul, Republic of Korea</p> <ul style="list-style-type: none"> ▪ Department of Information Service <ul style="list-style-type: none"> • Assisted on library program planning and operating • Conducted research on information service planning <p>Korea Institute of Science and Technology Information (KISTI) Internship Daejeon, Republic of Korea</p> <ul style="list-style-type: none"> ▪ Department of Computer Intelligence Research <ul style="list-style-type: none"> • Conducted research on Linked Open Data (LOD) and the platform • Conducted research on usage of LOD in overseas and analyzed the characteristics of the system <p>Ewha Writing-Intensive School Ewha Womans University</p> <ul style="list-style-type: none"> ▪ Completed the 4 week Ewha Writing-Intensive School <ul style="list-style-type: none"> • Wrote an academic paper under the supervision by Prof. Hodges <p>Ewha Creative Academy Ewha Womans University</p> <ul style="list-style-type: none"> ▪ Completed 'English for Business Interaction' course <ul style="list-style-type: none"> • Took the course for academic and business purpose English <p>Ewha Weekly Newspaper Ewha Womans University</p> <ul style="list-style-type: none"> ▪ Senior Journalist <ul style="list-style-type: none"> • Mainly worked as photojournalist • Also contributed articles and editorial cartoons • Supervised junior and intern reporters in the photography division • Supervised the editing process of the newspaper overall 	Jul 2014 – Aug 2014 Dec 2013 – Feb 2014 Jun 2015 – Jul 2015 Mar 2014 – Jun 2014 Sep 2011 – Aug 2013