

# Hyung Wook Choi

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## EDUCATION

### Drexel University, PA, USA

- Ph.D. in Information Science Sep 2022 – Aug 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

- 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.
- 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]
- 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]
- Couri VanDam, Bum Chul Kwon, Stephanie Chiuvé, 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]
- 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]
- 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]

- 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]
- 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]
- 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]
- 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]
- 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]

#### PROCEEDINGS / POSTERS

- 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.
- Hyung Wook Choi, Mat Kelly, “Documenting Semantic Shifts Across Domains with Version Control,” *Document Academy 2024 Annual Meeting (DOCAM '24)*. Sep 2024.
- 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.
- Hyung Wook Choi, Mat Kelly, “Examining Existing Approaches Toward Semantic Disambiguation,” *Knowledge Organization across Disciplines, Domains, Services and Technologies*, 349-352. May 2022.
- 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(Suppl 1): 823. Dec 2020.
- 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.
- 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.
- 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

- Research Assistant, Drexel University Dec 2023 – Aug 2024
  - 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)

- Research Assistant, Drexel University Dec 2023 – Jun 2024
  - 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)
  - Architecting 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)**

- Research Assistant, Drexel University Feb 2020 – Jun 2020
  - 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**

- Research Assistant, Ewha Womans University May 2018 – Oct 2018
  - 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**

- Research Assistant, Ewha Womans University Jun 2017 – Sep 2017
  - 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**

- Research Assistant, Ewha Womans University Jun 2017 – Sep 2017
  - 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**

- Research Assistant, Ewha Womans University Jun 2016 – Sep 2016
  - 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**

- Research Assistant Scholarship Sep 2022 – Aug 2025
  - Institution: Drexel University
  - Full scholarship for the doctoral program
- Graduate College Gold Level Doctoral Fellowship Sep 2022 – Aug 2024
  - Institution: Drexel University
  - For winning a open competition in Drexel's doctoral-level programs
- Code4Lib 2022 Diversity Scholarship May 2022 – May 2022
  - Institution: Code4Lib
  - For attending at Code4Lib 2022 in Buffalo, NY
- Upsilon Pi Epsilon National Honor Society Oct 2020 – Oct 2020
  - Institution: Upsilon Pi Epsilon International Society
  - Honored for achieving outstanding achievement in Computing and Information disciplines
- Research Assistant Scholarship Feb 2020 – Jun 2020
  - Institution: Drexel University
  - For assisting Prof. Chaomei Chen with a NSF Granted project
- Research Assistant Scholarship Sep 2016 – Dec 2016
  - Institution: Ewha Womans University
  - For assisting Prof. EunKyung Chung for class and project research
- Koo Ja-Young Scholarship Mar 2016 – Aug 2016
  - Institution: Ewha Womans University
  - For assisting the department by managing the budget
- Department Assistant Scholarship Sep 2015 – Dec 2015
  - Institution: Ewha Womans University
  - For assisting the department comprehensively
- Social Science Scholarship Mar 2013 – Aug 2013
  - Institution: Ewha Womans University
  - For working as an Student IT Assistant

