# Hyung Wook Choi

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| **RESEARCH INTEREST** | **Data Science** |

- Extracting semantic patterns from data and re-thread for convergence
- Designing customized information retrieval system, Visualizing data-driven network

**SKILLS**

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| **Languages** | Python, Java, C, R, SQL, LaTeX. |
| **Web Development** | HTML, CSS, JavaScript |
| **Visualization** | NodeXL, CiteSpace |
| **Certification** | |

- 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

**EDUCATION**

**Drexel University**, PA, USA

- 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
  - Dissertation: An Investigation on Data-Driven Sociology
  - Adviser: Dr. EunKyung Chung
  - Focus: Data Citation Index, Data Visualization, Network Analysis, Scholarly Network

- B.S. in Library and Information Science      Mar 2011 – Aug 2015
  - Acquisition of certification for 2nd Formal Librarian
- B.S. 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

**PUBLICATIONS**

**JOURNALS**

- Ye-Jin Choi, Hyung Wook Choi, Soon Kim, "Acceptance status of Asian society journal's preprint policy in 2020" *Science Editing*, 8(1), 10-17. Feb 2021. [SCOPUS]

- 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]

- 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, and 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, and 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, and 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]

**CONFERENCES**

- Hyung Wook Choi, Rose Ann DiMaria-Ghalili, Mat Kelly, Alexander Poole, Erjia Yan, and Jina Huh-Yoo, "Older Adults and Technology Use: A Systematic Literature Review," *Innovation in Aging*, 4(Suppl 1): 823. Dec 2020.
- 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.

**POSTER**

- 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.

**RESEARCH EXPERIENCE**

### Research: 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

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| **AWARDS & SCHOLARSHIPS** | ▪ Research Assistant Scholarship<br>For assisting Prof. Chaomei Chen with a NSF Granted project | Feb 2020 – Jun 2020 |
| | ▪ Research Assistant Scholarship<br>For assisting Prof. EunKyung Chung for class and project research | Sep 2016 – Dec 2016 |
| | ▪ Koo Ja-Young Scholarship<br>For assisting the department by managing the budget | Mar 2016 – Aug 2016 |
| | ▪ Department Assistant Scholarship<br>For assisting the department comprehensively | Sep 2015 – Dec 2015 |
| | ▪ Social Science Scholarship<br>For serving as an Student IT Assistant | Mar 2013 – Aug 2013 |
| | ▪ Ewha Serving-Truth Scholarship<br>For serving as an Ewha Weekly Newspaper Senior Journalist | Sep 2012 – Dec 2012 |
| | ▪ Ewha Serving-Goodness Scholarship<br>For serving as an Ewha Weekly Newspaper Junior Journalist | Mar 2012 – Aug 2012 |

**PROFESSIONAL AFFILIATIONS & ACTIVITIES**

**National Library for Children and Young Library Internship**
Seoul, Republic of Korea

- Department of Information Service     Jul 2014 – Aug 2014
  - Assisted on library program planning and operating
  - Conducted research on information service planning

**Korea Institute of Science and Technology Information (KISTI) Internship**
Daejeon, Republic of Korea

- Department of Computer Intelligence Research     Dec 2013 – Feb 2014
  - 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

**CAMPUS ACTIVITIES**

**Ewha Writing-Intensive School** Ewha Womans University

- Completed the 4 week Ewha Writing-Intensive School     Jun 2015 – Jul 2015
  - Wrote an academic paper under the supervision by Prof. Hodges

**Ewha Creative Academy** Ewha Womans University

- Completed 'English for Business Interaction' course     Mar 2014 – Jun 2014
  - Took the course for academic and business purpose English

**Ewha Weekly Newspaper** Ewha Womans University

- Senior Journalist     Sep 2011 – Aug 2013
  - 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

**LANGUAGES**

- Korean: Native language
- English: Fluent (speaking, reading, writing, listening)
  - GRE: V 157, Q 164, W 3.5
  - TOEFL: R 28, L 29, S 23, W 24
- French: Basic & Learning
  - DELF A1