

# Inyoung Shin, PhD

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## Summary

Data scientist with a PhD in Communication and MS in Computer Science, specializing in predictive modeling, machine learning, and human-AI interaction. Experienced in A/B testing and NLP. Skilled in Python, PyTorch, and statistical modeling with a strong record of peer-reviewed publications on AI fairness and behavioral prediction.

## Education

### PhD in Communication

Oct. 2019

Rutgers University

New Brunswick, NJ, USA

- Dissertation: The Cost of Awareness: A Network Perspective on Negative Impacts of Communication Technology on Psychological Well-being
- Committee: Dr. Keith Hampton (Chair), Dr. Katherine Ognyanova, Dr. Mary Chayko, Dr. Larry Gross

### MS in Computer Science

May 2024

Yale University

New Haven, CT, USA

- Selected Coursework; Deep Learning Theory and Application; Deep Learning on Graph Structured Data; Database Systems; Full Stack Web Programming

### MA in Communication

Feb. 2012

Yonsei University

Seoul, South Korea

### BA in Mass Communication

Aug. 2010

Yonsei University

Seoul, South Korea

- Minor in Economics

## Work Experiences

### Lecturer/Sponsored Researcher

July 2021 - Present

Department of Computer Science, Yale University

New Haven, CT

- Taught *Ethical Conduct of Research* (~ 80 students/year), consistently earning high evaluation scores.
- Administered large undergraduate courses by managing teaching assistants, coordinating office hours and tutoring, and enhancing course structure and delivery.
- Initiated and organized faculty-student research events, fostering mentor-mentee connections.
- Conducted research on human-robot interaction, testing the validity of user experience measures.

### Research Fellow

Jan. 2020 - Present

Quello Center, Michigan State University

East Lansing, MI

- Delivered data-driven insights through academic publications that informed broadband policy in MI.
- Analyzed large-scale survey data, applying multi-group analysis and multiple imputation.
- Strengthened team collaboration by bridging communication between senior professors and graduate students.

## Assistant Faculty Associate

Department of Communication, University of Wisconsin-Milwaukee

Aug. 2019 - May 2021

Milwaukee, WI

- Instructed undergraduate courses including *Quantitative Research Methods* (~ 100 students/semester).
- Led a research team investigating workplace technology use and advised students on research methods and statistical analysis.
- Served on a graduate student dissertation committee and the departmental awards committee.

## Rutgers University, School of Communication and Information

New Brunswick, NJ

Research/Teaching Assistant

Sept. 2016 – May 2019

- Led seminar-based instruction and supported large introductory classes as a teaching assistant.
- Analyzed national survey data for Pew Research Center-supported projects, authoring circulated public reports and co-authoring academic publications with 300+ citations.

## Korean Women's Development Institute

Seoul, South Korea

Research Assistant

Nov. 2012 - Feb. 2013

- Contributed data-driven insights to a national policy report by preprocessing national panel survey data and conducting survival regression to examine women's employment patterns

## Publications

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### PEER-REVIEWED

- [18] **Shin, I.**, Riforgiate, S. E., Godage, E., & Coker, M. C. (2025) Remote worker communication technology use related to role clarity, emotional support, and work overload. *Sustainability* 17(7), 2830, <https://doi.org/10.3390/su17072830>.
- [17] \*Claire, H., \***Shin, I.**, Trafton, G., & Vázquez, M. (2025). Did the robot really intend to harm me? The effect of perceived agency and intention on fairness judgments. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI)*.  
\*Equal Contribution
- [16] Coker, M. C., Riforgiate, S. E., Godage, E., & **Shin, I.** (2024). Resetting time and priorities: Communicative sensemaking and implications of homeworking. In P. Kruey, S. André, & B. van der Heijden (Eds.), *Maintaining a sustainable work-life balance: An interdisciplinary path to a better future* (pp. 220-228). Edward Elgar.
- [15] **Shin, I.** (2024). Why am I getting uncomfortable with others' life experiences? Neglected side effects of sharing through social media. In V. Benson, J. McAlaney, J. Taylor, & R. G. Segumpan (Eds.), *Handbook of social media use: Online relationships, security, privacy, and society* (pp. 263-284). Elsevier.
- [14] **Shin, I.**, Riforgiate, S. E., Coker, M. C., & Godager, E. (2023). Communication technology and social support to navigate work/life conflict during COVID-19 and beyond. *Management Communication Quarterly*, 37(3). <https://doi.org/10.1177/08933189221144996>
- [13] **Shin, I.**, & Youn, H. (2023). COVID-19 risk perceptions among college students: Social media, national news media, and indirect experience. *Cyberpsychology, Behavior, and Social Networking*, 26(5), 380-385. <https://doi.org/10.1089/cyber.2022.0274>
- [12] Hampton, K. N., & **Shin, I.** (2023). Disconnection is more problematic for adolescent self-esteem than heavy social media use: Evidence from access inequalities and restrictive media parenting in rural America. *Social Science Computer Review*, 41(2), 626-647. <https://doi.org/10.1177/08944393221117466>

- [11] **Shin, I.**, & Hampton, K. N. (2023). New media use and the belief in a just world: Awareness of life events and the perception of fairness for self and injustice for others. *Information, Communication & Society*, 26(2), 388-404. <https://doi.org/10.1080/1369118X.2021.1950804>
- [10] **Shin, I.**, Wang, L., & Lu, Y.-T. (2022). Twitter and endorsed (fake) news: The influence of endorsement by strong ties, celebrities, and a user majority on credibility of fake news during the COVID-19 pandemic. *International Journal of Communication*, 16, 2573-2596. <https://ijoc.org/index.php/ijoc/article/view/18187>
- [9] Reisdorf, B. C., Fernandez, L., Hampton, K. N., **Shin, I.**, & Dutton, W. H. (2022). Mobile phones will not eliminate digital and social divides: How variation in Internet activities mediates the relationship between type of internet access and local social capital in Detroit. *Social Science Computer Review*, 40(2), 288-308. <https://doi.org/10.1177/0894439320909446>
- [8] Hampton, K. N., Robertson, C. T., Fernandez, L., **Shin, I.**, & Bauer, J. M. (2021). How variation in internet access, digital skills, and media use are related to rural student outcomes: GPA, SAT, and educational aspirations. *Telematics and Informatics*, 63, 101666. <https://doi.org/10.1016/j.tele.2021.101666>
- [7] **Shin, I.**, & Lim, J. P. (2017). Data security. In M. Allen (Ed.), *Encyclopedia of communication research methods* (pp. 338-345). SAGE Publications.
- [6] Hampton, K. N., **Shin, I.**, & Lu, W. (2017). Social media and political discussion: When online presence silences offline conversation. *Information, Communication & Society*, 20(7), 1090-1107. <https://doi.org/10.1080/1369118X.2016.1218526>
- [5] Hampton, K. N., Lu, W., & **Shin, I.** (2016). Digital media and stress: The cost of caring 2.0. *Information, Communication & Society*, 19(9), 1267-1286. <https://doi.org/10.1080/1369118X.2016.1186714>
- [4] Kim, Y.-C., & **Shin, I.** (2013). Effects of smartphone use on perceived environmental controllability: Was there any change between 2010 and 2011? *Journal of Cybercommunication*, 30(1), 5-45.
- [3] \*Kim, Y.-C., & **Shin, I.** (2013). Effects of 'smartphone dependency' on traditional media use and talking with others: Applying media-system dependency theory. *Journal of Broadcasting and Telecommunication*, 2, 115-156.  
\*Article of the Year
- [2] Kim, Y.-C., Shim, H.-J., Kim, Y., **Shin, I.**, & Shon, H. (2012). Factors in sharing behaviors in social network services. *Korean Journal of Journalism and Communication Studies*, 56(3), 28-50.
- [1] **Shin, I.** (2012). Effects of scandal coverage on voting choice during presidential election: Based on priming effects of the BBK scandal in 17th Korean presidential election. *Journal of Communication Science*, 12(1), 68-97.

#### PUBLIC REPORTS

- [2] Hampton, K. N., Rainie, L., Lu, W., **Shin, I.**, & Purcell, K. (2015). Social media and the cost of caring. Pew Research Center, Washington, DC.
- [1] Hampton, K. N., Rainie, L., Lu, W., Dwyer, M., **Shin, I.**, & Purcell, K. (2014). Social media and the spiral of silence. Pew Research Center, Washington, DC.

#### UNDER REVIEW

- Shin, I.**, Choung, H., & Choi, M. (under review) Does AI narrow skill gaps? AI-assisted professional writing by non-native and native English writers. Submitted to *Computers in Human Behavior*.

Claire, H., Candon, K., **Shin, I.**, Clark, O., Vázquez, M. (revise & resubmit) Dynamic fairness perceptions in human-robot interaction. Submitted to *ACM Transactions on Human-Robot Interaction*.

Choi, M., Choung, H., **Shin, I.**, & Taylor, S. H. (under review) A double-edged ChatGPT: From need fulfillment to dependency. Submitted to *Media Psychology*.

#### IN PROGRESS

**Shin, I.**, Claire, H., Blaustein, M., Trafton, G., & Vázquez, M. Effects of time-varying perceived agency on fairness judgments towards robots. In preparation for submission to *IEEE Robotics and Automation Letters*.

Coker, M. C., **Shin, I.**, Riforgiate, S. E., & Godage, E. A comparison of communication technology use in remote work: during vs. after the pandemic. In preparation for submission to *Communication Research Reports*.

Stern, M., Hampton, K. N., & **Shin, I.** The gendered role of social media use and video games on adolescents differing STEM career aspirations. In preparation for submission to *New Media & Society*.

#### Conference Presentations

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[22] **Shin, I.**, Riforgiate, S. E., Coker, M. C., & Godage, E. (2023). Remote worker communication technology use related to role clarity, emotional support, and work overload. Presented at the Annual Meeting of the National Communication Association, November 16-19, National Harbor, MD.

[21] \*Hampton, K. N., & **Shin, I.** (2022). Excessive social media use is less harmful than disconnection for the self-esteem of rural adolescents. Presented at the 12th International Conference on Social Media & Society, July 19-24, Virtual Conference.  
\*Best Paper Award

[20] Hampton, K. N., & **Shin, I.** (2022). Disconnection is more problematic for adolescent self-esteem than heavy social media use: Digital inequality, restrictive parenting, and the relationship to time rural youth spend with friends and family. Presented at the Annual Meeting of the International Communication Association, May 21-26, Paris, France.

[19] Riforgiate, S. E., Gattoni, A., Simpson, D., & **Shin, I.** (2021). Educator sense-making in a pandemic/post-pandemic world. Presented at the Annual Meeting of the National Communication Association, November 11-16, Seattle, WA.

[18] Kang, K. K., Lane, J., & **Shin, I.** (2021). Entrepreneurship as organizing visibility: Opportunities and challenges of socially mediated visibility for women entrepreneurs. Presented at the Annual Meeting of the National Communication Association, November 11-16, Seattle, WA.

[17] Wang, L., **Shin, I.**, & Lu, Y-T. (2021). Twitter and endorsed misinformation: Retweeting, bandwagon cues, and conspiracy theory during the COVID-19 pandemic. Presented at the Annual Meeting of the Association for Education in Journalism and Mass Communication, August 13-18, Virtual Conference.

[16] **Shin, I.**, & Youn, H. (2021). COVID-19 risk perceptions among college students: Social media for self and mass media for others. Presented at the Annual Meeting of Association for Education in Journalism and Mass Communication, August 13-18, Virtual Conference.

[15] Hampton, K. N., Robertson, C. T., Fernandez, L., **Shin, I.**, & Bauer, J. M. (2021). Digital media and human capital in rural America: Broadband access, digital skills, and excessive media use for GPA, SAT,

and educational aspirations. Presented at the Annual Meeting of the International Communication Association, May 20-25, Virtual Conference.

- [14] \***Shin, I.**, Riforgiate, S. E., Coker, M. C., & Godager, E. (2020). Communication technology and supportive communication to navigate work-life conflict during the COVID-19 pandemic and beyond. Presented at the Annual Meeting of the Central States Communication Association, March 4-9, Virtual Conference.  
\*Top Paper in the Organizational and Professional Communication Division
- [13] \*Riforgiate, S. E., **Shin, I.**, Godager, E., & Coker, M. C. (2020). Resetting time: Remote workers' work-life communication about time during COVID-19. Presented at the Annual Meeting of the Central States Communication Association, March 4-9, Virtual Conference.  
\*Top Paper Panel in the Organizational and Professional Communication Division
- [12] **Shin, I.** (2020). Do new communication technologies cultivate individual perceptions of injustice? A network perspective on the cultivation effects of communication technologies. Presented at the Annual Meeting of the National Communication Association, November 11-16, Virtual Conference.
- [11] **Shin, I.** (2019). Neglected side effects of network awareness: How communication technology affords the source of psychological discomfort. Presented at the Annual Meeting of the National Communication Association, November 13-17, Baltimore, MD.
- [10] Reisdorf, B. C., Fernandez, L., Hampton, K. N., **Shin, I.**, & Dutton, W. H. (2019). Mobile phones will not eliminate digital and social divides: How variation in Internet activities mediates the relationship between type of Internet access and local social capital in Detroit. Presented at the Annual Meeting of the American Sociological Association, August 10-13, New York, NY.
- [9] Reisdorf, B. C., Fernandez, L., Hampton, K. N., **Shin, I.**, & Dutton, W. H. (2019). Inequalities in breadth of Internet access and use predict local social capital: Digital divides in Detroit. Presented at the Annual Meeting of the International Communication Association, May 21-15, Washington DC.
- [8] \***Shin, I.** (2017). Social media and cultivation: Assessing awareness of network life events and its relationship to belief in a just world. Presented at the Annual Meeting of the National Communication Association, November 15-20, Dallas, TX.  
\*Top Four Student Paper in Human Communication and Technology Division
- [7] **Shin, I.** (2017). Cost of caring and communication technology: Assessing awareness of network life events and its mediating and moderating impacts on stress. Presented at the Annual Meeting of the International Communication Association, May 22-27, San Diego, CA.
- [6] Hampton, K. N., **Shin, I.**, & Lu, W. (2015). Social media and offline conversation: Putting political discussion in context. Presented at the Annual Meeting of the American Sociological Association, August 3-8, Seattle, WA.
- [5] Hampton, K. N., **Shin, I.**, & Lu, W. (2015). Social media and political discussion: When online presence silences offline conversation. Presented at the Annual Meeting of the International Communication Association, June 1-5, Fukuoka, Japan.
- [4] **Shin, I.**, & Choi, D. (2015). Collective action in the online peer production system: An examination of structures and dynamics of Yelp networks. Presented at the Annual Meeting of the National Communication Association, November 17-21, Las Vegas, NV.
- [3] Park, M., & **Shin, I.** (2015). Emotion matters in first impression formation: Effects of positive emotion in nonverbal communication. Presented at the Annual Meeting of the National Communication Association, November 17-21, Las Vegas, NV.

- [2] **Shin, I.** (2012). An exploratory study on collective efficacy in Facebook. Presented at the master thesis competition of the Korean Scholars of Marketing Science Fall International Conference, December 2-5, Seoul, South Korea.
- [1] **Shin, I.** (2011). Your relation starts with your smile: The effect of emotion through nonverbal behaviors on forming first impressions. Presented at the Honors Symposium for Asian PhD Students in Communication Research, November 10-13, Singapore.

## Research Experiences

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### **Communication and Work in the Post-Pandemic Era**

*Dec. 2024 - Present*

- Co-Principal Investigator with Dr. M. Cody Coker and Dr. Sarah Riforgiate on a research project investigating technology use in the post-pandemic era.
- Designed and launched a Qualtrics survey with custom JavaScript logic and advanced filtering techniques via Prolific for targeted sampling.
- Led comparative analysis and applied LLMs for qualitative data interpretation.

### **Generative AI and Trust Differences between Non-native English Speakers and Native English Speakers**

*Jun. 2024 - Present*

- Principal investigator; led project launch and developed research questions and analytical strategies.
- Designed experimental surveys in Qualtrics with custom JavaScript logic and applied NLP techniques using scikit-learn for text analysis
- Directed data analysis with a focus on mediation and moderation models and led manuscript preparation.

### **Robots that Reason Fairness (Funded by The Air Force Office of Scientific Research)**

*Apr. 2024 - Present*

- Collaborated with the Interactive Machines Group under Dr. Marynel Vázquez on Human-Robot Interaction research.
- Contributed to a vignette-based user study on fairness and trust judgments, including survey design and implementation in JavaScript.
- Provided statistical consultation on mixed-effects models and factor analysis to PhD and postdoctoral researchers; mentored undergraduates.
- Gained hands-on experience programming the Nao humanoid robot and exploring the use of LLMs for simulating user interaction scenarios.

### **Credibility of Misinformation on Twitter (Funded by the SICSS-Rutgers)**

*Aug. 2020 - Aug. 2021*

- Principal Investigator; secured research funding from the Summer Institute in Computational Social Science at Rutgers.
- Led a research team of graduate students; provided guidance on data collection, statistical modeling, and analysis strategy.
- Designed and conducted a survey experiment with 300 Twitter users; performed moderation-based regression analysis using R.

### **Media Use and Risk Perceptions of COVID-19 Among College Students in the U.S.**

*June 2020 - Dec. 2021*

- Principal Investigator; led research design and data collection across 400 U.S. college students.
- Applied mediation analysis using SPSS PROCESS to explore behavioral predictors from survey data.
- Produced a peer-reviewed publication analyzing how digital media environments shaped risk perceptions and prevention behaviors.

## **Work and Life Communication During the Pandemic**

*Mar. 2020 - Dec. 2022*

- Co-Principal Investigator with Dr. Sarah Riforgiate; designed and administered surveys to 600 U.S. remote workers.
- Led statistical analyses using SPSS PROCESS, focusing on path modeling to examine technology use, work-life conflict, and burnout.
- Facilitated collaboration between graduate students and senior faculty; mentored students unfamiliar with quantitative methods and guided them through survey design and statistical analysis.

## **Broadband and Student Performance Gaps (Funded by Merit Network, Inc)**

*Jan. 2020 - Present*

- Collaborated with the Quello Center at Michigan State University on a large-scale study examining broadband access and educational equity across 21 rural areas in Michigan.
- Led the development of research questions and quantitative methodology; introduced group analysis techniques; facilitated collaboration between graduate students and senior faculty
- Mentored the research team on advanced statistical techniques including mediation analysis, multi-group analysis, and multiple imputation for missing data using Mplus.

## **Awareness of Life Events**

*Sept. 2016 - Oct. 2019*

- Dissertation project developed from the ground up; served as Principal Investigator and led all stages of research design, data collection, and analysis.
- Conducted a mixed-methods study with an online survey of 600 social media users and in-depth interviews with 30 participants
- applied regression mediation analysis in SPSS PROCESS and qualitative coding

## **Pervasive Nature of Social Media and Its Possible Outcomes**

*Dec. 2013 - May 2014*

- Collaborated with Pew Research Center on a national study examining social media use, political discussion, and psychological well-being.
- Analyzed national survey data using logistic regression in SPSS and structural equation modeling in Mplus; introduced Mplus to senior faculty collaborators.
- Authored two public-facing reports along with peer-reviewed academic papers; the work has received over 500 citations on Google Scholar.

## **AI, MACHINE LEARNING, AND PROGRAMMING PROJECTS**

### **Time-Series Modeling of Suicide Trends from Economic Indicators**

*Jan. 2024 – May 2024*

- Used Python (Pandas, NumPy, Scikit-learn) to clean, merge, and model multi-source time-series data.
- Applied polynomial regression and ridge models to forecast national suicide trends.
- Independently designed and implemented the full project from scratch, including data integration, modeling, and evaluation.

### **Graph Neural Network (GNN) for Weak Tie Prediction in Social Networks**

*Sept. 2023 – Dec. 2023*

- Independently developed a GNN model from scratch to predict weak social connections using email communication network data.
- Preprocessed graph data with Python NetworkX and engineered features for graph-based learning.
- Built and trained the model using PyTorch Geometric; implemented graph preprocessing with Python NetworkX.

### **Development of Class Office Hours Website**

*Sept. 2023 - Dec. 2023*

- Built a class office hours app with React (frontend), Flask (backend), and PostgreSQL (database).
- Implemented student roster import, live check-in queue, and user account management.
- Led communication and task coordination across a six-person team; ensured smooth collaboration between technical and non-technical team members.

### **Training Convolutional Neural Networks (CNN) on Satellite Imagery to Predict U.S. Population Health Status**

*Jan. 2023 - May 2023*

- Preprocessed satellite imagery and U.S. census data to predict regional health insurance coverage.
- Trained CNNs using PyTorch on Yale's high-performance computing cluster.
- Led project report writing and facilitated collaboration among graduate students from policy and engineering disciplines.

### **Spatial Quiz Interaction with Kinect Sensor**

*Jan. 2023 - May 2023*

- Proposed and led development of a gesture-based quiz platform using JavaScript (D3.js), Kinect, and Flask.
- Integrated spatial interaction algorithms and guided a four-member undergraduate students through implementation.
- Explained programming logic and hardware integration to teammates from non-CS backgrounds to support interdisciplinary collaboration.

## **Teaching Experience**

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### **YALE UNIVERSITY**

#### **Ethical Conduct of Research**

- Teach first-year master's and PhD students in Computer Science in person
- Mandatory course for graduate students as part of their ethical training
- Facilitate seminars for students to discuss ethical practices in research and technology development using real-world examples

### **UNIVERSITY OF WISCONSIN-MILWAUKEE**

#### **Human Communication Technology**

- Delivered course both in person and online
- Helped students effectively assess social implications of digital communication technology
- Advised students on how to write research reports related to social media and its societal implications

#### **Quantitative Research Methods**

- Delivered course both in person and online
- Taught quantitative communication research methods, applications, and issues
- Guided students in administering a quantitative method study and in conducting basic statistical analyses

#### **Organizational Communication and Technology**

- Delivered course both in person and online
- Demonstrated communication theories and concepts related to technology use in work-related contexts
- Incorporated case studies that encourage students to navigate effective technology use in the workplace

### **RUTGERS UNIVERSITY**

#### **Communication, Technology, and Society**

- Delivered course in person
- Introduced research on the political, economic, and societal implications of traditional and new media
- Mentored students on how to conduct research projects related to the topics of communication and technology



## Leadership in Digital Contexts

- Delivered course in a hybrid format including weekly face-to-face meetings along with online components
- Presented frameworks for understanding the role of technology in leadership functions in online and virtual settings
- Created a variety of exercises and scenarios that helped students effectively assess and apply various technologies in professional settings

## Introduction to Communication and Information Processes

- Delivered course in person
- Introduced prominent communication theories related to interpersonal, group, organizational, mediated, and mass communication
- Helped students develop effective communication skills in global contexts

## Invited Talks and Presentations

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### Better AI in a Better Context: Bridging Social Impacts and Human-Centered Design

School of Communication, Rochester Institution of Technology

*March 2025*

*Rochester, NY*

### From Media to Agent: Integrating AI into Human Communities

School of Communication, Oregon State University

*Feb. 2025*

*Corvallis, OR*

### Data Analysis & Visualization In the Broadband and Student Performance Gap Project

Office of Institutional Research, Yale University

*Jan. 2024*

*New Haven, CT*

### Digital Media & Civic Engagement: How Our Connections Influence What We Think and How We Act

Department of Communication, Hope College

*Nov. 2020*

*Holland, MI*

### Communication Technology & Social Networks: How Is the Use of New Communication Technology Changing Community?

Department of Communication, University of Wisconsin-Milwaukee

*Mar. 2020*

*Milwaukee, WI*

### Cultural Changes & New Media: How Do New Media Influence Ways of Interacting with Others?

Department of Communication, Northwest University

*Feb. 2020*

*Kirkland, WA*

## Awards, Fellowships & Grants

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### AWARDS

- 2022 **Best Paper Award**  
12th International Conference on Social Media & Society
- 2021 **Diamond Anniversary Award (Top Paper Award)**  
Organizational and Professional Communication Division  
Central States Communication Association
- 2021 **Top Paper Panel Award**  
Organizational and Professional Communication Division  
Central States Communication Association
- 2017 **Top Four Student Paper**  
Human Communication and Technology Division  
National Communication Association
- 2013 **Article of the Year**  
Journal of Broadcasting and Telecommunication Studies
- 2010 **The Highest Honors Student Award**  
Yonsei University, South Korea

### FELLOWSHIPS & GRANTS

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| 2020 | <b>SICSS Mechanical Turk Funding</b><br>Summer Institute in Computational Social Science-Rutgers       | \$1000   |
| 2017 | <b>Dissertation Support Grant</b><br>Department of Communication, Rutgers University                   | \$1000   |
| 2019 | <b>Professional Development Fund</b><br>Department of Communication, University of Wisconsin-Milwaukee | \$500    |
| 2019 | <b>Travel Grant</b><br>School of Communication and Information, Rutgers University                     | \$500    |
| 2017 | <b>Conference Travel Award</b><br>Graduate School of New Brunswick, Rutgers University                 | \$250    |
| 2017 | <b>Travel Grant</b><br>School of Communication and Information, Rutgers University                     | \$950    |
| 2017 | <b>Academic Fellowship</b><br>School of Communication and Information, Rutgers University              | \$25,000 |
| 2015 | <b>Travel Grant</b><br>School of Communication and Information, Rutgers University                     | \$500    |

## Outreach & Professional Development

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### DISSERTATION COMMITTEE

- 2022-2023 **Emily Godager**, University of Wisconsin-Milwaukee

## PROFESSIONAL DEVELOPMENT IN COMPUTATIONAL METHODS AND AI

- May 2025 **Introduction to Systematic Review and Meta-Analysis**  
Coursera Course Offered by Johns Hopkins University
- May 2025 **AI/ML on HPC Clusters**  
Yale Center for Research Computing
- April 2025 **Introduction to High-Performance and Parallel Computing**  
Coursera Course Offered by the University of Colorado Boulder
- June 2020 **Summer Institute in Computational Social Science-Rutgers**  
Summer Institute in Computational Social Science

## PROFESSIONAL DEVELOPMENT IN TEACHING AND RESEARCH SUPPORT

- Sep. 2024 **Fundamentals of Grant Writing I (completed an 8-week online workshop)**  
Center for Continuing Education & Hotel, University of Georgia
- Aug. 2023 **Teaching Day at Yale**  
Poorvu Center for Teaching and Learning, Yale University
- Jan. 2021 **The 2021 UWM Teaching and Learning Symposium**  
Center for Excellence in Teaching and Learning, University of Wisconsin-Milwaukee
- Jan. 2020 **The 2020 UWM Teaching and Learning Symposium**  
Center for Excellence in Teaching and Learning, University of Wisconsin-Milwaukee
- Oct. 2019 **Inclusive Pedagogy: Classroom Teaching Strategies**  
Center for Excellence in Teaching and Learning, University of Wisconsin-Milwaukee
- Sept. 2019 **Successful Small Group Learning**  
Center for Excellence in Teaching and Learning, University of Wisconsin-Milwaukee
- Nov. 2018 **Developing Your Teaching Portfolio for Promotion**  
Center for Teaching Advancement and Assessment Research, Rutgers University
- Oct. 2018 **Any Questions? A Workshop About Piquing Student Curiosity**  
Center for Teaching Advancement and Assessment Research, Rutgers University

## REVIEWING ACTIVITIES

- 2025 **ACM Transactions on Human-Robot Interaction (THRI)**, Ad Hoc Reviewer
- 2024 **Urban Studies**, Ad Hoc Reviewer
- 2022 **Journal of Computer Mediated Communication**, Ad Hoc Reviewer
- 2022 **Social Science Computer Review**, Ad Hoc Reviewer
- 2021 **Sociological Focus**, Ad Hoc Reviewer
- 2019 **International Journal of Communication**, Ad Hoc Reviewer
- 2019 **Information, Communication & Society**, Ad Hoc Reviewer
- 2018-2022 **International Communication Association Annual Conference**  
Communication and Technology Division
- 2021 **International Communication Association Annual Conference**  
Korean American Communication Association
- 2018-2022 **National Communication Association Annual Conference**  
Human Communication and Technology Division

## UNIVERSITY & COMMUNITY SERVICE

- 2020-2021 **Student Awards and Recognition Committee**  
Department of Communication, University of Wisconsin-Milwaukee
- 2018 **Discussion Panel in International Teaching Assistant Orientation**  
International Student and Scholar Service, Rutgers University
- 2014 -2015 **Treasurer; Vice President**  
Rutgers Korean Graduate Student Association
- 2007-2008 **Editor/Chief Editor of Campus Weekly**  
Yonsei University, South Korea

## Technical & Analytical Skills

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### AI/Machine Learning

- Ridge and non-linear regression (custom and Scikit-learn)
- Dimensionality reduction (e.g., PCA, autoencoders)
- Convolutional neural networks (CNNs) with PyTorch
- Graph neural networks (GNNs) with PyTorch Geometric
- LLM inference and prompt engineering (e.g., OpenAI API, Hugging Face, Ollama)

### Statistical Analysis

- Regression-Based Analysis
- Mediation Analysis, Multigroup Analysis, Structural Equation Modeling
- Hierarchical Linear Modeling, Mixed Effects Modeling
- Missing Data Imputation

### Programming Languages

- Proficient in Python, Jupyter Notebook, SQL, and R
- Intermediate in C/C++, JavaScript, HTML

### Tools & Platforms

- Linux/Bash, Git/GitHub, LaTeX
- Slurm, Globus (HPC environments)
- STATA, Mplus, SPSS