

# Jihun (Max) Joun

Assistant Professor, Digital Forensics  
School of Interdisciplinary Forensics  
New College of Interdisciplinary Arts & Sciences  
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## PERSONAL INFORMATION

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### Academic Appointments at ASU

08/2024-Present    **Arizona State University**, Glendale, AZ  
Assistant Professor (2024– ), School of Interdisciplinary Forensics  
Affiliate Faculty (2024– ), School of Mathematical and Natural Sciences

### Educational Background

02/2019-08/2023    **Korea University**, Seoul, Korea  
PhD in Information Security  
Dissertation: Digital Forensic Framework for Data Remnants Forensics

02/2017-02/2019    **Korea University**, Seoul, Korea  
Master of Information Security  
Thesis: Methods for Tracking the History of Document Files

08/2010-05/2016    **Pennsylvania State University**, University Park, PA  
Bachelor of Science in Security and Risk Analysis (Cybersecurity)  
Bachelor of Science in Information Sciences and Technology (Integration and Application)

### Other Employment

03/2024-07/2024    **Sangmyung University**, Seoul, Korea  
Assistant Professor, Department of Computer Science

08/2023-02/2024    **Korea University**, Seoul, Korea  
Postdoctoral Researcher, School of Cybersecurity

03/2017-07/2023    **Korea University**, Seoul, Korea  
Graduate Research Assistant, School of Cybersecurity

## Research, Scholarly, and Professional Activities

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### Refereed Journal Articles

j4        Sorin Im, Hyunah Park, **Jihun Joun**, Sangjin Lee, Jungheum Park. “Revisiting logical image formats for future digital forensics: A comprehensive analysis on L01 and AFF4-L.” *Forensic Science International: Digital Investigation* 50. (2024): 301811.

j3        **Jihun Joun**, Sangjin Lee, Jungheum Park. “Data remnants analysis of document files in Windows: Microsoft 365 as a case study.” *Forensic Science International: Digital Investigation* 46. (2023): 301612.

j2        **Jihun Joun**, Sangjin Lee, and Jungheum Park. “Discovering spoliation of evidence through identifying traces on deleted files in macOS.” *Forensic Science International: Digital Investigation* 44 (2023): 301502.

j1        **Jihun Joun**, Hyunji Chung, Sangjin Lee, Jungheum Park. “Relevance analysis using revision identifier in MS word.” *Journal of Forensic Sciences* 66.1 (2021): 323-335.

## Sponsored Research Projects (Senior Researcher)

- rp12 Korea University, *Foundational Research on Core Technologies for Advancing Digital Evidence Analysis and Management Systems*, 2023-2024
- rp11 Korea Institute of Science and Technology Information. *Research on elementary technologies for solving social issues based on sound data*, 2023
- rp10 The Korean National Police Agency. *Research on Data Acquisition and Analysis for Counter Anti-Forensics*, 2022-2023
- rp9 Korea University, *Preliminary Study on Building a Digital Forensics Infrastructure for Cybercrime Response in IoT Environments*, 2021-2022
- rp8 National Security Research Institute. *Research on Construction Model for Big Data-Based Incident Response Analysis*, 2021
- rp7 The Korean National Police Agency. *Research on Construction System for Digital Forensic Tools Verification*, 2021
- rp6 Korea Institute of Marine Science & Technology Promotion. *Development of Digital Forensic Technique for Navigational Equipment*, 2019-2020
- rp5 Institute of Information & Communications Technology Planning & Evaluation (IITP). *Development of Digital Forensic Integrated Platform – CARPE Forensics*, 2018-2020
- rp4 The Korean National Police Agency. *Development of Damaged Document File Recovery Module*, 2018
- rp3 Hanwha Systems Co., Ltd. *Research on Mock Attack Cybersecurity Training Technology*, 2018
- rp2 National Security Research Institute. *Research on Validation of Digital Forensic Tools*, 2017
- rp1 Supreme Public Prosecutors' Office Republic of Korea. *Research on Assessment Methods for Digital Forensic Tools*, 2017

## Software and Applications

- sw3 *FICA*, File Carving & Analyzer. C-2020-031145 (KOR)
- sw2 *DEFA*, Document file analyzer. C-2019-035736 (KOR)
- sw1 *CARPE Forensics*, An integrated digital forensic platform. C-2019-035737 (KOR). <https://github.com/dfrc-korea/carpe>

## AWARDS

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- aw3 Jihun Joun, NCUIRE Award, Arizona State University, 2025, \$1,250
- aw2 Jihun Joun, *BK21 Graduate Fellowship*, National Research Fund of Korea (NRF), 2022, \$2,500
- aw1 Jihun Joun, *BK21 Graduate Fellowship*, National Research Fund of Korea (NRF), 2021, \$5,000

## TEACHING AND EDUCATION ACTIVITIES

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### Arizona State University, Glendale, AZ (Instructor)

- as5 ACO 499: Individualized Instruction (enrollment 2)
- as4 FOR 350: Computer Forensics, Fall 2025 (enrollment 100)
- as3 Redesigned ACO 331: Network Forensic Analysis, Spring 2025 (enrollment 14)
- as2 FOR 350: Computer Forensics, Spring 2025 (enrollment 72)
- as1 Redesigned FOR 350: Computer Forensics, Fall 2024 (enrollment 55)

### Sangmyung University, Seoul, Korea (Instructor)

- su2 HAEA9237: Computer Mathematics – Calculus, Spring 2024 (enrollment 110)
- su1 HAEA9241: Data Structure, Spring 2024 (enrollment 90)

### Other Institutions

- oi3 Digital Forensics, Spring 2023 (enrollment 50), Seoul Cyber University, Seoul, Korea
- oi2 PAS4026: Digital Forensics Practice, Fall 2022 (enrollment 25), Dongguk University, Seoul, Korea
- oi1 IMS666: Introduction to Digital Forensics, Spring 2022 (enrollment 25), Korea University, Seoul, Korea

## SERVICES

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### Academic Services

as6	2025 Program Lead, Digital Forensics BS Program
as5	2025 Mentor, TraIN
as4	2025 Mentor for Undergraduate Research (Barrett Honors College)
as3	2024 Search Committee Member, School of Interdisciplinary Forensics
as2	2024 Faculty Advisor, Digital Forensics and Innovation Lab (DFIL)
as1	2024 Assessment Coordinator, Computational (Digital) Forensics Program

### Professional Services

ps7	2025 Technical Program Committee Member, Digital Forensics Research Conference (DFRWS APAC '25)
ps6	2025 Thesis Committee Member, Sungkyunkwan University, Korea
ps5	2025 Peer-reviewer, NRF, Korea
ps4	2025 Workshops Co-Chair, Digital Forensics Research Conference (DFRWS APAC '25)
ps3	2025 Associate Member, The American Academy of Forensic Sciences (AAFS)
ps2	2024 Thesis Committee Member, Sungkyunkwan University, Korea
ps1	2024 Workshops Co-Chair, Digital Forensics Research Conference (DFRWS APAC '24)

### Community Services

cs3	2025 Presenter, Behind Crime Scene Investigation
cs2	2025 Chair, Digital Forensics Challenge, Open Door 2025
cs1	2025 Media Contributor, Fox10 News