

# Daeyoung Kim

Assistant Professor of School of Computing  
Montclair State University, NJ

kimda@montclair.edu  
<https://daeyoung.kim>  
(201)699-2778

Education	<b>Rutgers University</b> , New Brunswick, NJ Ph.D. in Computer Science Dissertation: <i>Regulating Smart Devices in Restricted Spaces</i> Advisor: Dr. Vinod Ganapathy	September 2012 - January 2019
	<b>Hanyang University</b> , South Korea M.S. in Computer Science and Engineering Thesis title: <i>A UMTS AKA Protocol Enhancing Forward Secrecy and Privacy</i> Advisor: Dr. Heekuck Oh	March 2005 - February 2007
	<b>Hanyang University</b> , South Korea B.S. in Electronic and Computer Engineering	March 2001 - February 2005
Work Experience	<b>Montclair State University</b> , Montclair, NJ Assistant Professor	September 2021 - present
	<b>Kennesaw State University</b> , Marietta, GA Limited-Term Assistant Professor	April 2019 - August 2021
	<b>Hewlett Packard Labs</b> , Princeton, NJ Research Associate, Intern - Cloud & Security lab Mentor: Dr. Pratyusa Manadhata	May 2015 - August 2015
	<b>SK Communications</b> , South Korea Software Engineer - Web Search Development Group	February 2007 - March 2011
Teaching Experience	CSIT 460 Computer Security, <i>MSU</i> , Instructor	Fall 2023
	CSIT 213 DSA In Python, <i>MSU</i> , Instructor	Summer 2023
	CSIT 506 Data Structures with Python, <i>MSU</i> , Instructor	Summer 2023
	CSIT 104 Python Programming I, <i>MSU</i> , Instructor	Spring 2023
	CSIT 345 Operating Systems, <i>MSU</i> , Instructor	Spring 2023
	CSIT 460 Computer Security, <i>MSU</i> , Instructor	Fall 2022
	CSIT 104 Python Programming I, <i>MSU</i> , Instructor	Fall 2022
	CSIT 561 Computer Security, <i>MSU</i> , Instructor	Spring 2022
	CSIT 345 Operating Systems, <i>MSU</i> , Instructor	Spring 2022
	CSIT 112 Fundamentals of Programming II, <i>MSU</i> , Instructor	Spring 2022
	CSIT 460 Computer Security, <i>MSU</i> , Instructor	Fall 2021
	CYBR7400 Introduction to Cryptography and Its Applications <i>KSU</i> , Instructor	Summer 2021
	CS 3305 Data Structures <i>KSU</i> , Instructor	Fall 2020
	CS 4308 Concepts of Programming Languages <i>KSU</i> , Instructor	Spring, Fall 2020
	CS 7260 Advanced Database Systems <i>KSU</i> , Instructor	Fall 2019
	CS3052 Operation Systems, <i>KSU</i> , Instructor	Fall 2019
	CS 112 Data Structures, <i>Rutgers</i> , Teaching Assistant	Fall 2013 - Summer 2014
	CS 111 Introduction to Computer Science, <i>Rutgers</i> , Teaching Assistant	Fall 2012 - Summer 2013

**Publications** [1] Harmonized All-Ways Security Surveillance and Disaster Prevention in Smart Eco-Cities, Hyunbum Kim, Jalel Ben-Othman, **Daeyoung Kim**, *IEEE Internet of Things Journal*, December

2023.

- [2] Rethinking the Weakness of Stream Ciphers and Its Application to Encrypted Malware Detection, William Stone, **Daeyoung Kim**, Victor Youdom Kemmoe, Mingon Kang, Junggab Son, *IEEE Access*, October 2020.
- [3] Recent Advances on Smart Contract: A Survey, Victor Youdom Kemmoe, William Stone, Jeehyung Kim, **Daeyoung Kim**, and Junggab Son, *IEEE Access*, June 2020.
- [4] Detecting Plagiarized Mobile Apps using API Birthmarks, **Daeyoung Kim**, Amruta Gokhale, Vinod Ganapathy, and Abhinav Srivastava, In *Journal of Automated Software Engineering*, Springer, December 2016.
- [5] Regulating ARM TrustZone Devices in Restricted Spaces, Ferdinand Brasser, **Daeyoung Kim**, Christopher Liebchen, Vinod Ganapathy, Liviu Iftode, and Ahmad-Reza Sadeghi, In *Proceedings of the ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, June 2016, Acceptance: 31/197 (15.7%).
- [6] Seeing is believing: Sharing Real-time Traffic Images via Vehicular Clouds, Daehan Kwak, Ruilin Liu, **Daeyoung Kim**, Badri Nath, and Liviu Iftode, *IEEE Access*, May 2016.
- [7] DoppelDriver: Counterfactual Actual Travel Times for Alternative Routes, Daehan Kwak, **Daeyoung Kim**, Ruilin Liu, Badri Nath, and Liviu Iftode, In *Proceedings of the IEEE International Conference on Pervasive Computing and Communications (PerCom)*, March 2015, Acceptance: 29/196 (14.8%).
- [8] Tweeting Traffic Image Reports on the Road, Daehan Kwak, **Daeyoung Kim**, Ruilin Liu, Badri Nath, and Liviu Iftode, In *Proceedings of the International Conference on Mobile Computing, Applications and Services (MobiCase)*, November 2014.
- [9] Data-Driven Inference of API Mappings, Amruta Gokhale, **Daeyoung Kim**, and Vinod Ganapathy, In *Proceedings of the Workshop on Programming for Mobile and Touch (PROMOTO)*, October 2014.
- [10] A Practical Way to Provide Perfect Forward Secrecy for Secure E-mail Protocols, Sangjin Kim, Changyoung Lee, **Daeyoung Kim**, and Heekuck Oh, In *Proceedings of the 4th international conference on Distributed computing and internet technology*, December 2007.
- [11] A Privacy Protecting UMTS AKA Protocol Providing Perfect Forward Secrecy, **Daeyoung Kim**, Yonggang Cui, Sangjin Kim, and Heekuck Oh, In *Proceedings of the International Conference on Computational Science and Its Applications*, Springer, August 2007.

## Honors and Awards

- Faculty Research Mentoring, Montclair State University 2023
- Faculty and Staff Recognition, Dept. of Career Planning and Development, KSU 2020
- TA-GA Professional Development Fund, Rutgers University 2016
- Arts and Sciences Fellowship, Rutgers University 2012 - 2014
- Brain Korea 21 Scholarship, The Korea Research Foundation 2006
- Excellent Grade Scholarship, Hanyang University 2005 - 2006
- Honor Grade Scholarship, Hanyang University 2004, 2006
- Honorable Mention, ACM International Collegiate Programming Contest, Asia Regional 2004

## Invited Talks and Presentations

- Detecting Plagiarized Mobile Apps using API Birthmarks, Automated Software Engineering, University of Illinois at Urbana-Champaign, IL, October 2017
- Regulating Smart Devices in Restricted Spaces, Kennesaw State University, Marietta, GA, September 2017
- Regulating ARM TrustZone Devices in Restricted Spaces, Hyundai AutoEver, Uiwang, South Korea, September 2016

## Services

### Program Committee

- [IoTEF] IEEE International Workshop on IoT in Emerging Fields - 2023
- [DASC] IEEE International Conference on Dependable, Autonomic & Secure Computing - 2020, 2021
- [CIKM] ACM International Conference on Information and Knowledge Management - 2022

### Program Chair/Co-Chair

- Publication Chair: Korean Computer Scientists and Engineers Association in America Technical Symposium - 2021
- Finance Co-Chair: Korean Computer Scientists and Engineers Association in America Technical Symposium - 2022

### External Reviewer

- [ToN] IEEE/ACM Transactions on Networking - 2022
- [ICTAI] IEEE International Conference on Tools with Artificial Intelligence - 2022
- [ICC] IEEE International Conference on Communications - 2021
- [Access] IEEE Access - 2019