

**Gyuyeong Kim**  
gykim08@korea.ac.kr  
<https://gyuyeongkim.github.io/>

<b>RESEARCH INTERESTS</b>	Networked Systems, Data center networking, Cloud computing and networking, Programmable dataplane, Networking support for Cloud, IoT, and AI systems.	
<b>EDUCATION</b>	Ph.D. in Computer Science, <b>Korea University</b> <i>Advisor: Prof. Wonjun Lee</i>	Mar. 2012 - Feb. 2020
	B.E. in Brain and Cognitive Sciences, <b>Korea University</b>	Sept. 2009 - Feb. 2012
	B.E. in Computer Science, <b>Korea University</b>	Mar. 2008 - Feb. 2012
	Exchange Student in <b>Lund Tekniska Högskola (LTH)</b>	Jan. 2011 - Jun. 2011
<b>ACADEMIC CAREER</b>	Research Professor, Future Network Center, <b>Korea University</b>	Mar. 2020 - Present
	Lecturer, School of Cybersecurity, <b>Korea University</b>	Sept. 2019 - Feb. 2020
<b>FUNDED PROJECTS</b>	In-Network Resource Augmentation utilizing Reconfigurable Network Devices NRF, Grant: 294,000,000 KRW (~\$247,000)	
		Mar. 2020 - Feb. 2023
<b>TEACHING EXPERIENCE</b>	<b>Instructor</b> , Korea University Computer Networks (IMS301)	2020S, 2019F
	<b>Teaching Assistant</b> , Korea University Computer Networks (IMS301) Computer Networks (IMS2012) Computer Networks (CYDF316) Computer Networks (CYDF321) Computer Networks (COSE342) Communication Networks (CYDF305) Wireless Mobile Communications (CNCE407)	2019S, 2018S, 2017F 2018(Summer) 2016F 2016S 2015F 2014S 2013S, 2012S
<b>PROFESSIONAL ACTIVITIES</b>	<b>Reviewer</b> IEEE International Conference on Computer Communications (INFOCOM), 2020 IEEE International Conference on Distributed Computing Systems (ICDCS), 2019 IEEE Transactions on Cloud Computing, 2019 IEEE Networking Letters, 2019	
<b>TALKS</b>	Tutorial: P4 SFC <b>SDN/NFV Forum P4 WG 2019 1st Meetup</b> , Seoul, South Korea	
		Apr. 19, 2019
	Service Function Chaining in P4-enabled Programmable Switches <b>SDN/NFV Forum P4 WG 2018 2nd Meetup</b> , Seoul, South Korea	
		Oct. 12, 2018
	Controller-independent Loss-aware Low Latency State Migration in Network Functions Virtualization <b>ONOS-P4 Brigade Work Days 2017</b> , Seoul, South Korea	
		Sept. 19, 2017

## JOURNAL PUBLICATIONS

1. *Gyuyeong Kim* and Wonjun Lee, "Enabling Service Queue Isolation in Multi-Tenant Data Centers," *IEEE Communications Letters (CL)*, Vol. 23, No. 11, pp. 1949-1952, November 2019.
2. *Gyuyeong Kim* and Wonjun Lee, "Absorbing Microbursts without Headroom for Data Center Networks," *IEEE Communications Letters (CL)*, Vol. 23, No. 5, pp. 806-809, May 2019.
3. *Gyuyeong Kim* and Wonjun Lee, "Tardy Flow Scheduling in Data Center Networks," *IEICE Transactions on Information and Systems (Trans. Inf.&Syst.)*, Vol. E99-D, No. 9, pp. 2400-2403, September 2016.

## CONFERENCE PUBLICATIONS

1. *Gyuyeong Kim* and Wonjun Lee, "Stable Matching with Ties for Cloud-assisted Smart TV Services," in *Proc. of the 14th IEEE International Conference on Consumer Electronics (ICCE 2014)*, Las Vegas, NV, January 2014.
2. *Gyuyeong Kim* and Wonjun Lee, "Cannot Take My Allocation: Enforcing Fairness by Considering Demand and Payment in Clouds," in *Proc. of the 4th International Conference on Network of the Future (NoF 2013)*, Pohang, South Korea, October 2013.
3. *Gyuyeong Kim*, Hoorin Park, Jieun Yu, and Wonjun Lee, "Virtual Machines Placement for Network Isolation in Clouds," in *Proc. of 2012 Research in Applied Computation Symposium (RACS 2012)*, San Antonio, TX, October 2012.

## PATENTS

1. Wonjun Lee and *Gyuyeong Kim*, "Method for Data Processing," *Korean Patent* 10-2064679, January 3, 2020.
2. Wonjun Lee and *Gyuyeong Kim*, "Method and Device for Scheduling Flow of Packet for Reducing Delay Time Due To Retransmit of Packet," *Korean Patent* 10-1841143, March 16, 2018.

## AWARDS AND HONORS

IEEE Seoul Section International Student Paper Contest Bronze Paper Award	2014
- Fault Tolerant Topology Reconfiguration in Optical Wireless Data Center Networks	
<b>Global Ph.D. Fellowship (GPF)</b> , NRF, South Korea	2012 - 2014
ACM-ICPC Seoul Regional Contest 10th Place	2009
National Collegiate Programming Contest Silver Prize, South Korea	2009
Oracle JavaFX Software Contest 3rd Prize	2009
ACM-ICPC Seoul Regional Contest Honorable Mentions	2008

## RESEARCH EXPERIENCE in Ph.D. STUDY

### Intelligent and Autonomous Networking

- aSTEAM: App-Specialized Transport for Evolvability, Autonomicity, and Measurability, NRF, PI:*Prof. Wonjun Lee* Oct. 2018 - Dec. 2020

### SDN/NFV and Programmable Networking

- Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP, PI:*Prof. Sangheon Pack* Jan. 2017 - Dec. 2020

### Cloud Computing and Data Center Networking

- Cloud Bridges-Piers: Optimization Technologies towards Higher Performance of Wireless Networking Cloud, NRF, PI:*Prof. Wonjun Lee* Jun. 2013 - May 2016
- A Fair Network Performance Isolation Framework in Multi-Tenancy Cloud Data Center Networks, **Global Ph.D. Fellowship**, NRF Mar. 2012 - Feb. 2014

**WORK  
EXPERIENCE**

**Korea University Lecture Evaluation (KLUE)** <http://klue.kr>

- An online service providing course reviews and ratings based on student feedback at Korea University. Roughly 430,000 reviews by 42,000 members are available today

*President*

Jan. 2011 - Feb. 2015

- Led our team and managed the service. Maintained the service infrastructure.

*Co-Founder and Junior developer*

Mar. 2010 - Jun. 2010

- Designed and developed a part of the service.

**REFERENCES**

Available upon request.