# Gyuyeong Kim

Ph.D. Student in Computer Science Network Research Lab Graduate School of Information Security Korea University

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### Reserach Interests

Networked Systems, Data Center Networking, Cloud Computing, Programmable Dataplane, P4 Language

### Education

Ph.D. in Computer Science, **Korea University**, Seoul, South Korea

Advisor: Prof. Wonjun Lee

B.E. in Brain and Cognitive Sciences, **Korea University**, Seoul, South Korea

Interdisciplinary Major

B.E. in Computer Science, **Korea University**, Seoul, South Korea

Mar 2009 - Feb 2012

Exchange Student in **Lund Tekniska Högskola** (LTH), Lund, Sweden

Jan 2011 - Jun 2011

## Research Experience

2017 - 2020 Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP, South Korea

2013 - 2016 Cloud Bridges-Piers: Optimization Technologies towards Higher Performance of Wireless Networking Cloud, NRF, South Korea

2012 - 2014 A Fair Network Performance Isolation Framework in Multi-Tenancy Cloud Data Center Networks, Global Ph.D. Fellowship, NRF, South Korea

#### **Publications**

International Journal Publications

**Gyuyeong Kim** and Wonjun Lee, "Tardy Flow Scheduling in Data Center Networks," *IEICE Transactions on Information and Systems*, Vol. E99-D, No. 9, pp. 2400-2403, September 2016.

#### International Conference Publications

**Gyuyeong Kim** and Wonjun Lee, "Stable Matching with Ties for Cloud-assisted Smart TV Services," in *Proc. of IEEE International Conference on Consumer Electronics (ICCE)*, Las Vegas, NV, January 2014.

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**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)*, Pohang, South Korea, October 2013.

**Gyuyeong Kim**, Hoorin Park, Jieun Yu, and Wonjun Lee, "Virtual Machines Placement for Network Isolation in Clouds," in *Proc. of ACM Research in Applied Computation Symposium*, San Antonio, TX, October 2012.

### Domestic Conference Publications (in Korean)

**Gyuyeong Kim** and Wonjun Lee, "Low Latency Switch Buffer Management Policy for Data-intensive Applications," in *Proc. of the 28th Joint Conference on Communications and Information (JCCI)*, Yeosu, Korea, May 2018.

**Gyuyeong Kim** and Wonjun Lee, "Accelerating Cloud Data Center Packet Transport to Minimize Flow Completion Times," in *Proc. of the 42nd KIISE Winter Conference*, Pyeongchang, Korea, December 2015.

**Gyuyeong Kim** and Wonjun Lee, "Fault Tolerant Topology Reconfiguration in Optical Wireless Data Center Networks," in *Proc. of the 42nd KIISE Winter Conference*, Pyeongchang, Korea, December 2015.

Taekyung Kim, **Gyuyeong Kim**, and Wonjun Lee, "Suitable Routing Strategy for Wireless Data Centers," in *Proc. of the 40th KIISE Fall Conference*, November 2013.

**Gyuyeong Kim** and Wonjun Lee, "Strategy Proofness of VM Migration in Cloud Data Centers," in *Proc.* of the 40th KIISE Fall Conference, November 2013.

**Gyuyeong Kim**, Taekyung Kim, and Wonjun Lee, "Fairness Enforcement by Considering Demand and Payment in Clouds," in *Proc. of KIISE Korea Computer Congress (KCC)*, June 2013.

**Gyuyeong Kim** and Wonjun Lee, "Pricing for Network Isolation in Clouds," in *Proc. of the 39th KIISE Fall Conference*, November 2012.

**Gyuyeong Kim**, Jieun Yu, and Wonjun Lee, "Virtual Machines Placement Considering Network Resources in Cloud Data Center Networks," in *Proc. of the 22nd Joint Conference on Communications and Information (JCCI)*, April 2012.

#### **Patents**

**Gyuyeong Kim** and Wonjun Lee, "Method and Device for Scheduling Flow of Packet for Reducing Delay Time Due To Retransmit of Packet," *Korean Patent* 10-1841143, March 16, 2018.

## Teaching Experience

#### Teaching Assistant at Korea University

Summer 2018 Computer Networks (IMS2012)

Spring 2018 Computer Networks (IMS301)

Fall 2017 Computer Networks (IMS301)

Fall 2016 Class 43 (CYDF316)

Spring 2016 Class 53 (CYDF321)

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Fall 2015	Computer Networks (COSE342)
Spring 2014	Class 31 (CYDF305)
Spring 2013	Wireless Mobile Communications (CNCE407)
Spring 2012	Wireless Mobile Communications (CNCE407)

# Work Experience

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Developer at KLUE (Korea University Lecture Evaluation, http://klue.kr)
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Jan 2011 - Feb 2015 Principal Developer
Mar 2010 - Jun 2010 Junior Developer
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### Awards and Honors

2016	Cyber-Happiness Idea Competition Special Award
2014	IEEE Seoul Section International Student Paper Contest Bronze Paper Award
2012 - 2014	Global Ph.D. Fellowship (GPF), NRF, South Korea
2009 - 2012	Chung-ho Scholarship, Chung-ho Buddhism Culture Center, South Korea
2009	ACM-ICPC Seoul Regional Contest 10th Place
2009	National Collegiate Programming Contest Silver Prize, South Korea
2009	Oracle JavaFX Software Contest 3rd Prize
2008	ACM-ICPC Seoul Regional Contest Honorable Mentions

## References

#### Wonjun Lee

Professor, Graduate School of Information Security, Korea University wlee@korea.ac.kr

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