Juhoon **Kim**

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Biography

Juhoon Kim is working at Deutsche Telekom AG and responsible for the analysis of the technology impact and for the management of a standardization project. He is also working on multiple EU-funded projects which focus on new networking paradigms such as Software-defined Networking (SDN), Network Function Virtualiztion (NFV), and Next Generation Mobile Network (NGMN/5G). His research interest is centered around developing and evaluating future Internet protocols and architectures. Previously, he received Ph.D. and M.Sc. degrees in Computer Science from TU Berlin.

Education

Dr.-ing. (Ph.D.) in Computer Science — *Berlin, Germany*

TU Berlin (Technische Universität Berlin) — *Apr. 2010 - Apr. 2014*

- Thesis: "Towards Utilizing Network Diversity for Future Internet Protocols"
- Supervisors: Prof. Anja Feldmann (TU Berlin, Germany), Prof. Don Towsley (UMass Amherst, USA), Prof. Luigi Iannone (Telecom ParisTech, France), Dr. Ramin Khalili (Huawei Deutschland, Germany)

Master of Science (M.Sc.) in Computer Science — *Berlin, Germany*

TU Berlin (Technische Universität Berlin) — *Sep. 2006 - Mar. 2010*

- Thesis: "eDonkey and Kad Traffic Analysis based on Semantic Protocol Identification"
- Supervisor: Prof. Anja Feldmann (TU Berlin, Germany)

Professional Experience

Deutsche Telekom AG — *Berlin, Germany*

Technology Expert — *Jul. 2018 - Present*

- Research on 5G technologies, SDN, and NFV

Telekom Innovation Laboratories (TU-Berlin) — *Berlin, Germany*

Research Associate — *Aug. 2014 - Jun. 2018*

- Research on 5G technologies, SDN, and NFV
- EU-funded NFV projects
- Internet traffic measurement and analysis

International Carrier Sales & Solutions, Deutsche Telekom — *Bonn, Germany*

Research Visit — *Aug. 2012 - Sep. 2012*

- Internet traffic measurement and analysis

Multiple software companies during the period — *Seoul, S.Korea*

Research & Development — *Nov. 2001 - Oct. 2004*

- Software development

Projects

FP7 UNIFY

co-funded by the European Commission DG CONNECT in FP7 — *Aug. 2014 - Apr. 2016*

UNIFY is a consortium of 16 European partners and aims at a full network service virtualization.

5G-PPP 5GEx

co-funded by 5G-PPP & Horizon2020 — *Oct. 2015 - Present*

5GEx is a consortium of 17 European partners and aims at enabling a unified 5G infrastructure service market.

Professional Services

Proposal Reviewer of	- Horizon2020 MONROE (2016)
	- French National Research Agency ANR (2013)
TPC Member of	- IEEE International Conference on Broadband and Photonics (2015)
	- MOBISLICE Workshop (2018)
Reviewer of	- Cyber-enabled Distributed Computing and Knowledge Discovery Conference (2015)
	- Elsevier Computer Networks (2011)
	- Asian Internet Engineering Conference (2011)
Chair of	- IEEE Conference on Network Function Virtualization and Software Defined Networks (2018)

Teaching Experience

Master/Diplom Thesis Supervision

- Soumya Ranjan Parida, *What Web Objects are Delivered Through Hypergiants?, 2016*
- Karl Fischer, *Smart mHTTP: Chunk Scheduler Design and Implementation for the Multi-source Multipath HTTP, 2015*
- Matthias Siebke, *Analyse und Untersuchung des World-of-Warcraft-Netzwerkprotokolls, 2011*

Teaching & Seminar organization

- Network Protocols and Architectures (WS13/14, WS12/13, WS11/12, WS10/11), *TU Berlin*
- Internet Routing Seminar (WS13/14, WS11/12, WS10/11), *TU Berlin*
- Internet Measurement Seminar (SS13), *TU Berlin*

Publications

GiLAN Roaming: Roam Like at Home in a Multi-Provider NFV Environment — *Presented in Rome, Italy*
IEEE ISNCC'18 (The International Symposium on Networks, Computers and Communications) — *2018*

Realizing Services and Slices Across Multiple Operator Domains — *Presented in Taipei, Taiwan*
IEEE/IFIP NOMS'18 (Network Operations and Management Symposium) — *2018*

DevOps for Software-Defined Telecom Infrastructure — *IETF Draft*
IETF draft-unify-nfvrg-devops-00, 01, 02 — *2015*

Service Provider DevOps for Large Scale Modern Network Services — *Presented in Ottawa, Canada*
IEEE BDIM'15 (Business-driven IT Management) — *2015*

Multi-Source Multi-Path HTTP (mHTTP): A Proposal — *Presented in Austin, TX, USA*
ACM SIGMETRICS'14 — *2014*

Caching Locator/ID mappings: An Experimental Scalability Analysis and Its Implications — *Journal*
Elsevier Computer Networks — *2012*

A Local Approach to Fast Failure Recovery of LISP Ingress Tunnel Routers — *Presented in Prague, Czech Republic*
IFIP Networking'12 — *2012*

A Deep Dive into the LISP Cache and What ISPs Should Know About It — *Presented in Valencia, Spain*
IFIP Networking'11 — *2011*

Revisiting Cacheability in Times of User Generated Content — *Presented in San Diego, CA, USA*
IEEE Global Internet Symposium'10 — *2010*

Today's Usenet Usage: Characterizing NNTP Traffic — *Presented in San Diego, CA, USA*
IEEE Global Internet Symposium'10 — *2010*