Tianzhu Zhang, Ph.D.

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Experience

Aug, 2020 – till now	🔖	**Research Engineer** Nokia Bell Labs, Paris-Saclay, France. Manager: Dr. Fabio Pianese
Oct, 2017 – Nov, 2019	🔖	**PostDoc researcher** Telecom ParisTech & LINCS Lab, Paris, France. Supervisor: Prof. Dario Rossi, Prof. Luigi Iannone
Jun, 2017 – Aug, 2017	🔖	**Intern** Nokia Bell Labs, Paris-Saclay, France. Supervisor: Dr. Massimo Gallo
Nov, 2014 - Dec, 2015	🔖	**Ph.D. researcher** Joint Open Lab, Telecom Italia, Turin, Italy. Supervisor: Dr. Pino Castrogiovanni

Education

2014 – 2017	🔖	**Ph.D., Politecnico di Torino** Department of Electronics and Telecommunications. Supervisor: Prof. Paolo Giaccone, Prof. Marcello Chiaberge. Thesis title: *Control plane optimization in Software Defined Networking and task allocation for Fog Computing*
2012 – 2014	🔖	**M.Sc., Politecnico di Torino** in Computer and Communication Networks Engineering. Thesis title: *Distributed Controllers in Software Defined Networks.*
2008 – 2012	🔖	**B.Sc., Huazhong University of Science and Technology** in Computer Science and Technology.

Research Publications

Journal Articles

1. **Zhang, T.**, Linguaglossa, L., Gallo, M., Giaccone, P., & Rossi, D. (2019). Flowatcher-dpdk: Lightweight line-rate flow-level monitoring in software. *IEEE Transactions on Network and Service Management, 16*(3), 1143–1156.

2. **Zhang, T.**, Chiasserini, C. F., & Giaccone, P. (2018). Tame: An efficient task allocation algorithm for integrated mobile gaming. *IEEE Systems Journal, 13*(2), 1546–1557.

3. **Zhang, T.**, Giaccone, P., Bianco, A., & De Domenico, S. (2017). The role of the inter-controller consensus in the placement of distributed sdn controllers. *Computer Communications, 113*, 1–13.

Conference Proceedings

1. Shelbourne, C., Linguaglossa, L., Lipani, A., **Zhang, T.**, & Geyer, F. (2019). On the learnability of software router performance via cpu measurements, In *Proceedings of the 15th international conference on emerging networking experiments and technologies*.

2. **Zhang, T.**, Linguaglossa, L., Gallo, M., Giaccone, P., Iannone, L., & Roberts, J. (2019). Comparing the performance of state-of-the-art software switches for nfv, In *Proceedings of the 15th international conference on emerging networking experiments and technologies*.

3 **Zhang**, **T.**, Linguaglossa, L., Roberts, J., Iannone, L., Gallo, M., & Giaccone, P. (2019). A benchmarking methodology for evaluating software switch performance for nfv, In *2019 ieee conference on network softwarization (netsoft)*. IEEE.

4 **Zhang**, **T.**, Linguaglossa, L., Gallo, M., Giaccone, P., & Rossi, D. (2018a). FlowMon-DPDK: Parsimonious per-flow software monitoring at line rate, In *2018 network traffic measurement and analysis conference (tma)*. IEEE.

5 **Zhang**, **T.**, Linguaglossa, L., Gallo, M., Giaccone, P., & Rossi, D. (2018b). High-speed per-flow software monitoring with limited resources, In *Proceedings of the acm sigcomm 2018 conference on posters and demos*.

6 Bianco, A., Giaccone, P., Kelki, S., Campos, N. M., Traverso, S., & **Zhang**, **T.** (2017). On-the-fly traffic classification and control with a stateful sdn approach, In *2017 ieee international conference on communications (icc)*. IEEE.

7 **Zhang**, **T.**, Bianco, A., Giaccone, P., & Nezhad, A. P. (2017). Dealing with misbehaving controllers in sdn networks, In *Globecom 2017- 2017 ieee global communications conference*. IEEE.

8 **Zhang**, **T.**, Bianco, A., & Giaccone, P. (2016). The role of inter-controller traffic in SDN controllers placement, In *2016 ieee conference on network function virtualization and software defined networks (nfv-sdn)*. IEEE.