

# 张静轩

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## 个人简介

本人系同济大学计算机系在读博士研究生，师从美国耶鲁大学 Y. Richard Yang (杨阳) 教授。本人于 2018 至 2020 年曾获国家留学基金委 (CSC) 联合培养博士奖学金资助，赴美国耶鲁大学进行学术交流。博士期间主要研究方向为大规模数据分析系统中网络资源发现、抽象及网络应用联合优化，曾在 TON, INFOCOM, SC 等顶级国际会议和期刊发表学术成果。本人也活跃于 IETF 互联网标准工作组，已发表数篇网络标准草案，包括 3 篇 RFC 以及 1 篇已被 IESG 采用的待发布标准。同时，本人也活跃于 OpenDaylight、CERN Rucio 等开源软件社区，为多个开源软件项目贡献代码。

## 研究方向

网络应用联合优化  
软件定义网络  
网络系统中的机器学习方法

## 教育经历

### 耶鲁大学

访问学者 (计算机科学), 2018.11 - 2020.10

### 同济大学

博士 (计算机科学), 2017.03 - 至今

硕士 (计算机科学), 2015.09 - 2017.03

本科 (计算机科学), 2013.03 - 2015.07

本科辅修 (数学, 数理强化班), 2011.09 - 2013.01

## 获奖

ACM SIGCOMM NAI 2022 最佳论文 (2022)

ACM 学生科研比赛参与奖 (2020)

CSC 公派留学奖学金 (2018)

同济大学优秀毕业生 (2015)

全国电子设计大赛二等奖 (2014)

美国数学建模大赛二等奖 (2014)

全国大学生数学竞赛上海赛区一等奖 (2012)

## 发表文章

### 互联网标准

1. Active Internet-Draft (Submitted to IESG for Publication) - YANG Data Models for the Application-Layer Traffic Optimization (ALTO) Protocol. 2024, Jan.
2. RFC 9275 - ALTO Extension: Path Vector. 2022, Sept.
3. RFC 9241 - Content Delivery Network Interconnection (CDNI) Request Routing: CDNI Footprint and Capabilities Advertisement using ALTO. 2022, July.
4. RFC 9240 - ALTO Extension: Entity Property Maps. 2022, July.

### 会议/期刊

1. Dunefsky, J., Soleimani, M., Yang R., Ros-Giralt J., Lassnig M., Wuerthwein, F.K., Yang, Y.R., Monga, I., Gao, K. and Zhang, J., 2022. Transport Control Networking: Optimizing Efficiency and Control of Data Transport for Data-Intensive Networks. In Proceedings of the ACM SIGCOMM 2022 Workshop on Network-Application Integration (NAI), ACM. (ACM SIGCOMM NAI 2022 最佳论文)
2. Zhang, J., 2021. IntQOE: Integrated End-to-end QoE Optimization for Edge Computing Enabled Web Application. In Proceedings of the ACM SIGCOMM 2021 Workshop on Network-Application Integration (NAI), ACM.
3. Xiang, Q., Le, F., Zhang, J. and Yang, Y.R., 2021. Toward Stable Interdomain Network-Application Integration. In Proceedings of the ACM SIGCOMM 2021 Workshop on Network-Application Integration (NAI), ACM.
4. Zhang, J., Contreras, L., Gao, K., Cano, F., Cano, P., Escribano, A. and Yang, Y.R., 2021. Sextant: Enabling Automated Network-aware Application Optimization in Carrier Networks. In Proceedings of the International Symposium on Integrated Network Management (IM), IFIP/IEEE.
5. Cheng Y., Luo N., Zhang, J., Antonopoulos T., Piskac R. and Xiang Q., 2021. Looking for the Maximum Independent Set: A New Perspective on the Stable Path Problem. In Proceedings of the 40th IEEE International Conference on Computer Communications (INFOCOM), IEEE.
6. Zhang, J. and Yang, Y.R., 2020. COC: Hierarchical Coflow Ordering for WAN Bandwidth Optimization in Inter-Data Center. In Proceedings of the Annual conference of the ACM Special Interest Group on Data Communication on the applications, technologies, architectures, and protocols for computer communication (SIGCOMM), ACM.
7. Zhang, J., Gao, K., Yang, Y.R. and Bi, J., 2020. Prophet: Toward Fast, Error-Tolerant Model-Based Throughput Prediction for Reactive Flows in DC Networks. In Transactions on Networking (TON), IEEE/ACM.
8. Xiang, Q., Zhang, J., Gao, K., Lim, Y.S., Le, F., Li, G. and Yang, Y.R., 2020, July. Toward Optimal Software-Defined Interdomain Routing. In Proceedings of the 39th IEEE International Conference on Computer Communications (INFOCOM), IEEE, 1529-1538.
9. Xiang, Q., Wang, X., Zhang, J., Newman, H., Yang, Y.R. and Liu, J., 2019. Unicorn: Unified Resource Orchestration for Multi-Domain, Geo-Distributed Data Analytics. In Future Generation Computer Systems, Elsevier.
10. Xiang, Q., Zhang, J., Wang, X., Liu, J., Guok, C., Le, F., MacAuley, J., Newman, H. and Yang, Y.R., 2018. Fine-Grained, Multi-Domain Network Resource Abstraction as a Fundamental Primitive to Enable High-Performance, Collaborative Data Sciences. In Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis (SC), ACM.
11. Gao, K., Zhang, J., Yang, Y.R. and Bi, J. 2018., Prophet: Fast Accurate Model-based Throughput Prediction for Reactive Flow in DC Networks. In Proceedings of the 37th IEEE International Conference on Computer Communications (INFOCOM), IEEE, 720-728.
12. Wang, W., Zhang, J., Guo, D., Xiang, Q., Huang, C., Chang, J. and Zhang, L. 2016. Towards an emerging cloudware paradigm for transparent computing. In Proceedings of the 9th IEEE/ACM International Conference on Utility and Cloud Computing (UCC), IEEE, 43-48.