

SILVERY DI FU

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Burnaby, BC

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EDUCATION

University of California, Berkeley

USA

Ph.D., Computer Science, Advisor: Sylvia Ratnasamy

2017-2022

Simon Fraser University

Canada

M.Sc., Concurrent Master's Program in Computer Science, Advisor: Jiangchuan Liu

2015-'17

B.Sc. (*First Class with Distinction*), Computer Science

2013-'16

PUBLICATIONS

- [1] **Silvery Fu**, Sylvia Ratnasamy, “dSpace: Composable Abstractions for Smart Spaces,” in ACM Symposium on Operating Systems Principles (*SOSP*), 2021.
- [2] **Silvery Fu**, Saurabh Gupta, Radhika Mittal, Sylvia Ratnasamy, “On the Use of ML for Blackbox System Performance Prediction,” in USENIX Symposium on Networked Systems Design and Implementation (*NSDI*), 2021.
- [3] Zhihong Luo, **Silvery Fu**, Mark Theis, Shaddi Hasan, Sylvia Ratnasamy, Scott Shenker, “Democratizing Cellular Access with CellBricks,” in ACM Special Interest Group on Data Communication (*SIGCOMM*), 2021.
- [4] **Silvery Fu**, Radhika Mittal, Lei Zhang, Sylvia Ratnasamy, “Fast and Efficient Container Startup at the Edge via Dependency Scheduling,” in USENIX Workshop on Hot Topics in Edge Computing (*HotEdge*), 2020.
- [5] Yifei Zhu, **Silvery Fu**, Jiangchuan Liu, “Truthful Online Auction for Cloud Instance Subletting,” in IEEE International Conference on Distributed Computing Systems (*ICDCS*), 2017.
- [6] **Silvery Fu**, Yifei Zhu, Ryan Shea, Jiangchuan Liu, “HARV: Harnessing Hybrid Virtualization to Improve Instance (Re)Usage in Public Cloud,” in IEEE/ACM International Symposium on Quality of Service (*IWQoS*), 2017.
- [7] Ryan Shea, Andy Sun, **Silvery Fu**, Jiangchuan Liu, “Towards Fully Offloaded Cloud-based AR: Design, Implementation and Experience,” in ACM Multimedia Systems Conference (*MMSys*), 2017.
- [8] **Silvery Fu**, Jiangchuan Liu, Wenwu Zhu, “Multimedia Content Delivery with NFV: From an Energy Perspective,” IEEE MultiMedia, July 2017.
- [9] **Silvery Fu**, Jiangchuan Liu, Xiaowen Chu, Yueming Hu, “Toward a Standard Interface for Cloud Providers: The Container as the Narrow Waist,” IEEE Internet Computing, March 2016.
- [10] Ryan Shea, **Silvery Fu**, Jiangchuan Liu, “Cloud Gaming: Understanding the Support From Advanced Virtualization and Hardware,” IEEE Transactions on Circuits and Systems for Video Technology (*TCSVT*), December 2015.
- [11] Ryan Shea, **Silvery Fu**, Jiangchuan Liu, “Bridging Online Game Playing and Live Broadcasting: Design and Optimization,” in Workshop on Network and Operating System Support for Digital Audio and Video (*NOSSDAV*), 2015.
- [12] Ryan Shea, **Silvery Fu**, Jiangchuan Liu, “Rhizome: Utilizing the Public Cloud to Provide 3D Gaming Infrastructure,” in ACM Multimedia Systems Conference (*MMSys*), 2015.

SCHOLARSHIPS/ AWARDS

Scholarships

- The Norman and Lina Chang Fellowship 2020
- Brian J. Blaha Memorial Graduate Scholarship in Computing Science 2016
- Computing Science Graduate (Concurrent Master's) Fellowship 2015
- Sophos Annual Computing Science Scholarship 2014
- Elma Krbavac Annual Undergraduate Scholarship in Computing Science 2014
- Simon Fraser University Alumni Scholarship 2014
- Simon Fraser University Open Scholarship 2014, '15

Awards & Prizes

- Simon Fraser University GSS Development Grant 2017
- 1st place winner of SDN Throwdown Competition with Telus & Juniper Networks 2016
- Mark and Nancy Brooks Computing Science Innovation Award 2014
- Simon Fraser University President's Honour Roll 2014
- Simon Fraser University Faculty of Applied Sciences Dean's Honour Roll 2014