

# Biographical Sketch for Steven Y. Ko

## Professional Preparation

- Yonsei University, Mathematics and Computer Science, BS, 1999
- Seoul National University, Computer Science and Engineering, MS, 2002
- University of Illinois at Urbana-Champaign, Computer Science, PhD, 2009
- Princeton University, Computer Science, Postdoc, 2010

## Appointments

- Assistant Professor, 08/10-present, University at Buffalo, The State University of New York
- Postdoctoral Research Associate, 08/09-07/10, Princeton University

## Five Products Most Closely Related to the Project

1. Erik Nordstrom, David Shue, Prem Gopalan, Rob Kiefer, Matvey Arye, Steven Y. Ko, Jennifer Rexford, and Michael J. Freedman, "Serval: An End-Host Stack for Service-Centric Networking," Proceedings of the 9th USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2012
2. Steven Y. Ko, Kyungho Jeon, and Ramses Morales, "The HybrEx Model for Confidentiality and Privacy in Cloud Computing," Proceedings of the 3rd USENIX Workshop on Hot Topics in Cloud Computing (HotCloud), 2011
3. Steven Y. Ko, Imranul Hoque, Brian Cho, Indranil Gupta, "Making Cloud Intermediate Data Fault-Tolerant," Proceedings of the 1st ACM Symposium on Cloud Computing (SOCC), 2010
4. Steven Y. Ko, Imranul Hoque, Brian Cho, and Indranil Gupta, "On Availability of Intermediate Data in Cloud Computations," Proceedings of the USENIX Workshop on Hot Topics in Operating Systems (HotOS), 2009
5. Gregory L. Lee, Martin Schulz, Dong H. Ahn, Andrew Bernat, Bronis R. de Supinski, Steven Y. Ko, and Barry Rountree, "Dynamic Binary Instrumentation and Data Aggregation on Large Scale Systems," International Journal of Parallel Programming (IJPP), Volume 35, No. 3 / June, 2007

## Five Other Products

1. Mohammad Iftekhar Husain, Steve Uurtamo, Steven Y. Ko, Atri Rudra, and Ram Sridhar, "PGV: Pretty Good Verification of Remote Storage," Proceeding of the 31st IEEE International Symposium on Reliable Distributed Systems (SRDS), 2012
2. Roy Campbell, Indranil Gupta, Michael Heath, Steven Y. Ko, Michael Kozuch, Marcel Kunze, Thomas Kwan, Kevin Lai, Hing Yan Lee, Martha Lyons, Dejan Milojicic, David O'Hallaron, and Yeng Chai Soh, "Open Cirrus Cloud Computing Testbed: Federated Data Centers for Open Source Systems and Services Research," Proceedings of the USENIX Workshop on Hot Topics in Cloud Computing (Hot-Cloud), 2009
3. Steven Y. Ko, Praveen Yalagandula, Indranil Gupta, Vanish Talwar, Dejan Milojicic, and Subu Iyer, "Moara: Flexible and Scalable Group-Based Querying System," Proceedings of the ACM/IFIP/USENIX Middleware, 2008
4. Steven Y. Ko and Indranil Gupta, "A New Class of Nature-Inspired Algorithms for Self-Adaptive Peer-to-Peer Computing," ACM Transactions on Autonomous and Adaptive Systems (TAAS), September, 2008
5. Steven Y. Ko, Ramses Morales, and Indranil Gupta, "New Worker-Centric Scheduling Strategies for Data-Intensive Grid Applications," Proceedings of the ACM/IFIP/USENIX Middleware, 2007

### **Synergistic Activities**

- TPC Member: USENIX ATC 2013, BigMine 2013, BigMine 2012, ANT 2012, DataCloud 2012, Middleware 2011, Open Cirrus Summit 2011, CoNEXT Student Workshop 2011, SAHNS 2011, DataCloud 2011, SASO 2010
- Vice-General Chair: IPCCC 2011

### **Collaborators and Other Affiliations**

- Collaborators during the last 48 months: Matvey Arye (Princeton), Roy Campbell (UIUC), Brian Cho (UIUC), Michael J. Freedman (Princeton), Prem Gopalan (Princeton), Indranil Gupta (UIUC), Michael Heath (UIUC), Imranul Hoque (UIUC), Mohammad Iftekhhar Husain (SUNY Buffalo), Subu Iyer (HP Labs), Rob Kiefer (Princeton), Michael Kozuch (Intel Research), Marcel Kunze (KIT), Thomas Kwan (Yahoo!), Kevin Lai (HP Labs), Hing Yan Lee (IDA), Martha Lyons (HP Labs), Dejan Milojicic (HP Labs), Ramses Morales (PatternInsight), Erik Nordstrom (Princeton), David OHallaron (CMU), Lucian Popa (HP Labs), Sylvia Ratnasamy (UC Berkeley), Jennifer Rexford (Princeton), Atri Rudra (SUNY Buffalo), Ion Stoica (UC Berkeley), David Shue (Princeton), Yeng Chai Soh (IDA), Ramalingam Sridhar (SUNY Buffalo), Vanish Talwar (HP Labs), Steve Uurtamo (SUNY Buffalo), Praveen Yalagandula (HP Labs), Minlan Yu (UC Berkeley)
- PhD advisor and postdoc sponsors: Indranil Gupta (UIUC), Michael Freedman (Princeton), Jennifer Rexford (Princeton)
- Students advised: None