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Education

- **Ph.D. Candidate in Computer Science** — ACT, Australia
  Australian National University — *Aug 2018 - Present*
  - Research interest: Visual analytics, Human-centered computing, Big data visualisation
- **Master of Science in Computer Science** — Daejeon, Korea
  KAIST — *Mar 2009 - Aug 2011*
  - Master Thesis: Achieving Bandwidth Guarantees in Virtual Data Centers using the Hose Model
  - Examine network traffic data on on-chip network to introduce a new scalable power-efficient structure
- **Bachelor of Science in Computer Science** — Daejeon, Korea
  KAIST — *Mar 2004 - Feb 2009*

Interchange student program, Fudan University, Shanghai, China — *Sep 2006 - Feb 2007*
Summer session program, UCSD, San Diego, USA — *Jul 2006 - Aug 2006*

Work Experience

- **Research Engineer** — Australian National University, ACT, Australia
  ANU College of Engineering and Computer Science — *Sep 2016 - Present*
  - Visualise knowledge graphs by connecting large collections of images and their descriptions.
  - Filter and cluster the extracted media features to automatically generate multimedia event summary documents.
- **Junior Research Engineer** — LG Electronics, Seoul, Korea
  Creative Innovation Center — *Mar 2011 - May 2015*
  - Implement IoT devices for control legacy home appliances and new types of wearable devices.
  - Design a new UI/UX platform over Real-time OS and customised Android
  - Build interface protocols between devices and smart phone through Bluetooth and Implement a smart phone application that controls the device.
- **Research Engineer** — LG Electronics, Seoul, Korea
  Creative Innovation Center — *Aug 2011 - Feb 2013*
  - Build the interface of touch input sensor for edge-bended phone
  - Responsible for developing new gesture dispatch interfaces for Android frameworks and application, as well as writing a device driver and control firmware for the touch input sensors.
- **Research Intern** — Microsoft Research Asia, Beijing, China
  Wireless & Network Group — *Aug 2010 - Feb 2011*
  - Research on the traffic models and topology for data center networks.
  - Introduce a new traffic model considering traffic locality to provide bandwidth guarantees.
- **Campus Ambassador** — Sun Microsystems, Inc., Seoul, Korea
  Sun Campus Ambassador — *Sep 2008 - Feb 2009*
  - Organise the second university Java algorithm contest.
  - Session translator at Sun Tech Day 2008 Seoul.
- **Engineering Intern** — Naver Corporation, Seoul, Korea
  Web-robot Development Team — *Mar 2008 - Sep 2008*
  - Analyse the page url patterns and develop a web page crawler.

Publications

1. E. Berger, S. M. Blackburn, C. Brodley, H. V. Jagadish, K. S. McKinley, M. A. Nascimento, M. Shin, K. Wang, and L. Xie. Goto rankings considered helpful. *Commun. ACM*, 62(7):29–30, June 2019
2. M. Shin, D. Kim, J. H. Lee, U. Bista, and L. Xie. Comparative document summarisation via classification. In *WSDM*, 2019
3. U. Bista, A. Mathews, M. Shin, A. K. Menon, and L. Xie. Comparative document summarisation via classification. In *AAAI*, 2019
4. D. Chen, D. Kim, L. Xie, M. Shin, A. K. Menon, C. S. Ong, I. Avazpour, and J. Grundy. Pathrec: Visual analysis of travel route recommendations. In *Proceedings of the Eleventh ACM Conference on Recommender Systems*, RecSys '17, pages 364–365, New York, NY, USA, 2017. ACM
5. J. Lee, H. Kim, M. Shin, J. Kim, and J. Huh. Mutually aware prefetcher and on-chip network designs for multi-cores. *IEEE Transactions on Computers*, 63(9):2316–2329, Sept 2014
6. M. Shin and J. Kim. Leveraging torus topology with deadlock recovery for cost-efficient on-chip network. In *2011 IEEE 29th International Conference on Computer Design (ICCD)*, pages 25–30, Oct 2011
7. J. Lee, M. Shin, H. Kim, J. Kim, and J. Huh. Exploiting mutual awareness between prefetchers and on-chip networks in multi-cores. In *2011 International Conference on Parallel Architectures and Compilation Techniques*, pages 177–178, Oct 2011
8. M. Shin, C. Guo, and J. Kim. Achieving bandwidth guarantees in virtual data centers using the hose model. In *The 3rd USENIX Workshop on Hot Topics in Cloud Computing (HotCloud'11), Poster session*, June 2011

Patents

1. An insole, A digital device and method for controlling the same (co-inventor), KR1020150102976
2. Mobile terminal and method for controlling the same (co-inventor), KR1020150093417
3. Insole, mobile terminal and method of controlling therefor (co-inventor), US20160366266A1
4. An insole, A mobile terminal and method for controlling the same (co-inventor), KR1020150082430
5. Terminal and method for controlling an output of AV data thereof (co-inventor), KR1020140021118
6. Mobile terminal and method for providing three-dimensional images thereof, KR1020140021116
7. Wearable glass-type device and method of controlling the device (co-inventor), KR1020130139293
8. Mobile terminal, KR1020130011661
9. Routing system and method using torous topology in on-chip network (co-inventor), KR1020110142500

Awards

1. Women in Data Science Award, Data to Decisions CRC, Australia, 2017

Skills

Programming: Python, JavaScript, C/C++, R, Java, SQL, Matlab, Bash, Unix Shell

Operating Systems: RTOS, Android, Linux, Mac OS X, UNIX

Web: Django, HTML, CSS, Bootstrap

Software and Tool: NLTK, Scikit, TensorFlow, Git, Gerrit, Atlassian Tools (Jira, Bitbucket, Confluence), Trace32, Gdb, Keil, IAR, Eclipse, Android Studio