Mikyung Han

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Education

- **Ph.D. and M.S., The University of Texas at Austin in Computer Science.** Aug 2005 - Aug 2011
  - Dissertation: Optimizing Opportunistic Communication in Wireless Networks
  - Advisor: Lili Qiu
  - Committee: Simon Lam, Yin Zhang, Gustavo de Veciana, Kang-Won Lee
- **B.S., Korea Advanced Institute of Science and Technology.** Mar 2001 - Aug 2005

Work Experience

- **Associate Professor of Instruction at UT Austin** Jan 2021 - Present
  Computer Science Department. Taught both lower and upper division CS courses mainly in the area of computer networks. Courses delivered in various class modes including in-person, hybrid, and fully online
- **Associate Professor at California Baptist University, Riverside CA.** Aug 2015 - Dec 2020
  Computing, Software, and Data Sciences Department. Served as a program director of undergraduate Computer Science major. Taught a wide range of CS courses from lower division undergraduate to graduate level.
- **Software Development Engineer at Microsoft, Seattle WA** Aug 2011 - July 2015
  Contributed to developing backend cloud services for Power BI, REST API for AS Azure, Power BI integration with Office 356, and PowerPivot integration with SharePoint.

Teaching

- **CS 314H Data Structures**: Lower division core for CS-Business Honors program. (FA21, FA22, FA24)
- **CS 326E Elements of Networking**: Elective for non major in Elements of Computing certificate program. (FA22, FA24, SP25)
- **CS 356 Computer Networks**: Upper division elective for CS major. (SP21, FA21, SP22, SP23)
- **CS 356R Introduction to Wireless Networks**: Upper division elective for CS major. (SP23)
- **CSC 312 Algorithms**: Upper division core for CS/SE major. (FA19, SP20, FA20)
- **CSC 413 Information Security and Computer Forensics**: Upper division elective for CS major. (FA16)
- **CSC 513 Security and Privacy in Computing**: Graduate elective for SE major. Collocated with CSC 413. (FA16)
- **EGR 101 Engineering with a Christian Worldview**: Lower division core for all engineering major. (FA15, FA16, FA18)
- **EGR 102 Introduction to Engineering Design**: Lower division core for all engineering major. (SP16)
- **EGR 121 Introduction to Programming in C++**: Lower division core for all engineering major. (FA15, SP16, FA18, FA19, FA20)
- **EGR 222 Software Engineering**: Lower division core for SE/CS major. (FA16, FA18, SP19, FA19, SP20, FA20)
- **EGR 227 Data Structures and Analysis**: Lower division core for SE/CS major. (SP17, SP19, SP20)
- **EGR 326 Software Design and Architecture**: Upper division core for SE major. (SP16, SP17, SP19)
- **EGR 424 Web Applications Development**: Upper division elective for SE/CS major. (SP16, SP17)
- **EGR 427 Software Project Management**: Upper division core for SE major. (FA15)
- **EGR 524 Web Applications Development**: Graduate elective for SE major. Collocated with EGR 424. (SP17)
- **EGR 526 Software Systems Design**: Graduate core for SE major. Collocated with EGR 326. (SP17)

Publications - Conferences Proceedings

[1] M. K. Han, B. Overstreet, and L. Qiu, "Greedy receivers in ieee 802.11 hotspots," in *37th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN'07)*, IEEE, 2007, pp. 471–480.

[2] T. Li, M. K. Han, A. Bhartia, *et al.*, "Crma: Collision-resistant multiple access," in *Proceedings of the 17th annual international conference on Mobile computing and networking*, 2011, pp. 61–72.

[3] L. Qiu, Y. Zhang, F. Wang, M. K. Han, and R. Mahajan, "A general model of wireless interference," in *Proceedings of the 13th annual ACM international conference on Mobile computing and networking*, 2007, pp. 171–182.

[4] U. Shevade, Y.-C. Chen, L. Qiu, *et al.*, "Enabling high-bandwidth vehicular content distribution," in *Proceedings of the 6th International Conference*, 2010, pp. 1–12.

[5] M. K. Han, A. Bhartia, L. Qiu, and E. Rozner, "O3: Optimized overlay-based opportunistic routing," in *Proceedings of the twelfth ACM international symposium on mobile ad hoc networking and computing*, 2011, pp. 1–11.

[6] E. Rozner, M. K. Han, L. Qiu, and Y. Zhang, "Model-driven optimization of opportunistic routing," in *Proceedings of the ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems*, 2011, pp. 269–280.

[7] M. T. Gordon, S. Chun, X. S. Zhao, M. J.-C. Nalbandian, M. K. Han, and M. Oyanader, "Design course for first-year students in multiple engineering disciplines," in *2018 ASEE Zone IV Conference*, 2018.

Publications - Journal

[8] M. K. Han and L. Qiu, "Greedy receivers in ieee 802.11 hotspots: Impacts and detection," *IEEE Transactions on Dependable and Secure Computing*, vol. 7, no. 4, pp. 410–423, 2010.

[9] E. Rozner, M. K. Han, L. Qiu, and Y. Zhang, "Model-driven optimization of opportunistic routing," *IEEE/ACM Transactions on Networking*, vol. 21, no. 2, pp. 594–609, 2012.

Professional Service

Committee

- Fulbright National Screening 2024 Committee
- SIGCSE TS 2024 Program Committee
- UT College of Natural Science Expert Teaching Assessment Fellow 2024
- UT CS Turing Scholars/CS-Business Honors Program Admissions Committee since 2022
- Grace Hopper Conference Academic Track Committee since 2020
- NSF Includes RESET Conference 2021 Steering Committee
- UT CS 3rd-Year Review Committee 2022

Professional Development

- Cultural Competency in Computing (3C) Fellows Cohort 3, Duke University

Peer Reviews

- IEEE/ACM Transactions on Networking since 2019
- IEEE Transactions on Communications since 2018
- IEEE/ACM Transactions on Mobile Computing since 2016
- Computers & Electrical Engineering 2016
- Transactions on Mobile Computing (TMC) 2010
- IEEE International Conference on Distributed Computing Systems (ICDCS) 2009
- AdHoc Networks 2008
- JSAC Issue on Stochastic Geometry and Random Graphs for Wireless Networks 2008
- IEEE International Conference on Distributed Computing Systems (ICDCS) 2006

Honors and Achievements

- **Samsung SDS IT Junior Club Fellowship, Korea** 2003 – 2005
- **Samsung Scholarship Foundation, Korea** 2005 – 2009
  four year fellowship of $50,000 per year.(Acceptance rate $< 10\%$)
- **Networking Networking Women Fellowship** Sept 2011
- **[1] Selected as one of the top 6 papers in DSN 2007** June 2007
- **[2] Best paper nominee in ACM MobiCom 2011** Sept 2011

Skills Summary

- **Languages**: JAVA, C++, C#, Python, JavaScript, SQL
- **Frameworks**: PyTorch, Django, Flask, NodeJS
- **Tools**: GIT, PostgreSQL, MySQL, SQLite
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry Pi, GNU Radio + USRP