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| **Yasaman Keshtkarjahromi** |

Email: ykesht2@uic.edu

Web: http://ykesht2.people.uic.edu/

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| **Work Authorization Status:** U.S. Permanent Resident |

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| **Education** |

**University of Illinois at Chicago**

Ph.D. in Electrical and Computer Engineering, Aug. 2017 (expected)

GPA: 4.0/4.0

**University of Tehran**, Iran

M.S. in Electrical and Computer Engineering, Sep. 2010

**Shiraz University**, Iran

B.S. in Electrical and Computer Engineering, Sep. 2007

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| **Research Interest** |

* Wireless Networks
* Wireless Communications

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| **Research and Work Experience** |

**Research Assistant at “Networking Research Lab” (Jan. 2014 – present)**

University of Illinois at Chicago, Chicago, IL

Ph.D. thesis topic: “*Design and Optimization of Cooperative Wireless Networks*”

**Research Intern at “Huawei R&D” (July 2016 – Sep. 2016)**

Wireless Lab

Rolling Meadows, IL

*Worked on development and testing of system level simulator for 3GPP 5G standards*

**Research Intern at “Bell Labs - Nokia” (June 2015 – Aug. 2015)**

Mathematics of Networks and Systems Research Department

Murray Hill, NJ

*Conducted research on the limit of non-linear precoding methods in terms of complexity and throughput for G-fast standard*

**Research Assistant at “Multimedia Communications Lab” (Jan. 2011 – Dec. 2013)**

University of Illinois at Chicago, Chicago, IL

*Conducted research on energy efficiency in heterogeneous wireless sensor networks*

**Research Assistant at “Wireless Communication Center” (Sep. 2008 – Sep. 2010)**

University of Tehran, Tehran, Iran

M.S. thesis topic: “*Distributed Variable Length Coding with application in multimedia image and video processing*”

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| **Publications** |

**Preprints**

1. **Yasaman Keshtkarjahromi**, Hulya Seferoglu, Rashid Ansari, Ashfaq Khokhar, “D2D Networking Meets Cellular via Network Coding,” *submitted to IEEE/ACM Transactions on Networking in Oct. 2016, received “Minor Revision” decision in Jan. 2017.*

**Journal Papers**

1. **Yasaman Keshtkarjahromi**, Hulya Seferoglu, Rashid Ansari, Ashfaq Khokhar, “Content-Aware Network Coding over Device-to-Device Networks,” *in IEEE Transactions on Mobile Computing,* 2016.

**Conference Papers**

1. **YasamanKeshtkarjahromi**, Hulya Seferoglu, Rashid Ansari, Ashfaq Khokhar, “D2D Meets Cellular Using Network Coding,” *in ACM CoNext Student Workshop*, Irvine, CA, Dec. 2016.
2. **Yasaman Keshtkarjahromi**, Hulya Seferoglu, Rashid Ansari, Ashfaq Khokhar, “Network Coding for Cooperative Mobile Devices with Multiple Interfaces”, *in Proc. of IEEE Milcom,* Tampa, FL, Oct. 2015.
3. **Yasaman Keshtkarjahromi**, Hulya Seferoglu, Rashid Ansari, Ashfaq Khokhar, “Content-Aware Instantly Decodable Network Coding over Wireless Networks,” *in Proc. of IEEE International Conference on Computing, Networking and Communications (ICNC),* Anaheim, CA, Feb. 2015.
4. **Yasaman Keshtkarjahromi**, Mehrdad Valipour, Farshad Lahouti, “Multi-Level Distributed Arithmetic Coding with Nested Lattice Quantization,” *in Proc. of IEEE Data Compression Conference (DCC)*, Snowbird, UT, Mar. 2014.
5. **Yasaman Keshtkarjahromi**, Rashid Ansari, Ashfaq Khokhar, “Energy Efficient Decentralized Detection Based on Bit-optimal Multi-hop Transmission in One-dimensional Wireless Sensor Network,” *in Proc. of IEEE Wireless Days (WD)*, Valencia, Spain, Nov. 2013.
6. Daniella Tuninetti, Natasha Devroye, **Yasaman Keshtkarjahromi** “On Cognitive Channels with an Oblivion Constraint,” *in Proc. of IEEE International ICST Conference on Cognitive Radio Oriented Wireless Networks and Communications (CROWNCOM)*, Osaka, Japan, June 2011.
7. Mehran Yazdi, Zahra Adelpour, Batoul Bahraini, **Yasaman Keshtkarjahromi**, “Novel Ridge Orientation Based Approach for Fingerprint Identification Using Co-occurrence Matrix,” *in Proceedings of World Academy of Science, Engineering and Technology*, vol. 26, pp. 371-375, Dec. 2007.

**Poster / Invited Talk**

1. “Quality Improvement in Instantly Decodable Network Coding,” Invited Talk *in CRAB Workshop, ICNP*, Raleigh, NC, Oct. 2014.
2. **YasamanKeshtkarjahromi**, Hulya Seferoglu, Rashid Ansari, Ashfaq Khokhar, “Content-Aware Instantly Decodable Network Coding over Wireless Networks,” Poster Presentation *in N2Women Workshop, SIGCOMM*, Chicago, IL, Aug. 2014. (**Received the best poster award**)

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| **Awards and Honors** |

* Provost Award for Graduate Research (Univ. of Illinois at Chicago, 2016)
* Best Poster Award in N2Women Workshop, SIGCOMM Conference (Chicago, IL, 2014)
* Student Travel Grant (CoNext 2016, Milcom 2015, ICNP 2014)
* Student Travel Presenter's Award, DCC Conference (Snowbird, UT, 2014)
* Member of National Organization for Development of Exceptional Talents (NODET) (Iran, 1999 **–**2003)

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| **Software Skills** |

* Programming Languages: C/C++
* Engineering Software: MATLAB, SIMULINK

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| **Professional Activities** |

**Technical Program Committee Member**

IEEE WTS 2017

**Reviewer for Conferences / Journals:**

* **Conferences:** WCNC 2017, WTS 2017, PIMRC 2015, ICC 2015, N2Women 2014, ICC 2013.
* **Journals:** IEEE Transactions on Mobile Computing, IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, Ad Hoc Networks, International Journal of Electronics and Communications, Computer Networks Journal.

**Volunteer Work**

* Volunteer at Expanding Your Horizons (EYH) 2015, Chicago, IL
* Volunteer at IEEE Explore the Future Symposium 2014, Chicago, IL
* Volunteer Judge for Future City Competition 2014, Chicago, IL

**Membership:**

IEEE, ACM, N2Women, WISE