

1. **Name:** Jiang (Linda) Xie

**Academic Rank:** Professor

2. **Degrees:**

B. Eng	Tsinghua University, Beijing, China	1997
M.Phil.	Hong Kong University of Science and Technology	1999
M.Sc.	Georgia Institute of Technology, Atlanta, Georgia	2002
Ph.D.	Georgia Institute of Technology, Atlanta, Georgia	2004

3. **UNC Charlotte (number of years = 12)**

- Professor: 2015 - present
- Associate Professor: 2010 - 2015
- Assistant Professor: 2004 - 2010

4. **Other related experience**

- Consultant, FutureWei Technologies, Huawei Technologies, 12/2010-5/2011

5. **Certifications or professional registrations:** none

6. **Current membership in professional organizations**

- IEEE (Senior Member), IEEE Communications Society, IEEE Women in Engineering (1999 – present)
- ACM (2002 – present)

7. **Honors and awards**

- NSF Faculty Early Career Development (CAREER) Award, 2010.
- Best Paper Award, IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT), 2010.
- IEEE Global Communication Conference (GLOBECOM 2010) Outstanding Leadership Award, 2010.
- IEEE Global Communication Conference (GLOBECOM 2009) Best Symposium Co-Chair Award, 2009.
- UNC Charlotte College of Engineering Graduate Teaching Excellence Award, 2007.

8. **Institutional and professional service in the last five years:**

- UNC-Charlotte ECE Faculty Search Committee, 2014-2015
- UNC-Charlotte ECE Graduate Committee, 2010-2013
- Editor, IEEE Transactions on Mobile Computing, Computer Networks (Elsevier), Journal of Network and Computer Applications (Elsevier), Journal of Communications (ETPub)

9. **Principal publications of last five years:**

- P. P. Ernest, H. A. Chan, **J. Xie**, and O. E. Falowo, “*Mobility Management with Distributed Mobility Routing Functions*,” *Telecommunication Systems (Springer)*, vol. 59, no. 2, pp. 229-246, June 2015.
- Y. Song and **J. Xie**, “BRACER: A Distributed Broadcast Protocol in Multi-hop Cognitive Radio Ad Hoc Networks with Collision Avoidance,” *IEEE Transactions on Mobile Computing*, vol. 14, no. 3, pp. 509-524, March 2015.
- H. Li and **J. Xie**, “GaS, A Gateway Scheduling-based Beamforming Scheme for Handoff Support in Wireless Mesh Networks,” *IEEE Transactions on Vehicular Technology*, vol. 63, no. 9, pp. 4560-4573, November 2014.

- X. Wang, P. Huang, **J. Xie**, and M. Li, "OFDMA-Based Channel-Width Adaptation in Wireless Mesh Networks," *IEEE Transactions on Vehicular Technology*, vol. 63, no. 8, pp. 4039-4052, October 2014.
- Y. Song, **J. Xie**, and X. Wang, "A Novel Unified Analytical Model for Broadcast Protocols in Multi-hop Cognitive Radio Ad Hoc Networks," *IEEE Transactions on Mobile Computing*, vol. 13, no. 8, pp. 1653-1667, August 2014.
- Y. Song and **J. Xie**, "QB<sup>2</sup>IC: A QoS-based Broadcast Protocol under Blind Information for Multi-hop Cognitive Radio Ad Hoc Networks," *IEEE Transactions on Vehicular Technology*, vol. 63, no. 3, pp. 1453-1466, March 2014.
- H. Li and **J. Xie**, "An Adaptive Channel Scheduling Design for Multi-hop Handoff Delay Reduction in Internet-based Wireless Mesh Networks," *IEEE Transactions on Wireless Communications*, vol. 12, no. 10, pp. 5258-5270, October 2013.
- W. Zhao and **J. Xie**, "DoMaIN: A Novel Dynamic Location Management Solution for Internet-based Infrastructure Wireless Mesh Networks," *IEEE Transactions on Parallel and Distributed Systems*, vol. 24, no. 8, pp. 1514-1524, August 2013.
- W. Zhao and **J. Xie**, "IMeX: Inter-gateway Cross-layer Handoffs in Internet-based Infrastructure Wireless Mesh Networks," *IEEE Transactions on Mobile Computing*, vol. 11, no. 10, pp. 1585-1600, October 2012.
- Y. Song and **J. Xie**, "ProSpect: A Proactive Spectrum Handoff Framework for Cognitive Radio Ad Hoc Networks without Common Control Channel," *IEEE Transactions on Mobile Computing*, vol. 11, no. 7, pp. 1127-1139, July 2012.
- H. Li, **J. Xie**, and X. Wang, "A Channel Splitting Strategy for Reducing Handoff Delay in Internet-based Wireless Mesh Networks," *IEEE Transactions on Vehicular Technology*, vol. 61, no. 6, pp. 2740-2752, July 2012.
- H. A. Chan, H. Yokota, **J. Xie**, P. Seite, and D. Liu, "Distributed and Dynamic Mobility Management in Mobile Internet: Current Approaches and Issues," *Journal of Communications*, vol. 6, no. 1, pp. 4-15, February 2011.
- **J. Xie** and U. Narayanan, "Performance Analysis of Mobility Support in IPv4/IPv6 Mixed Wireless Networks," *IEEE Transactions on Vehicular Networks*, vol. 49, no. 2, pp. 962-973, February 2010.

#### **10. Professional development activities in the last five years:**

- NSF Research Grant, "Accelerating Spectrum Access in Cognitive Radio Networks via Social Analysis of Secondary Users," January 2014 – December 2017, \$600,000. PI with Co-PI Yu Wang and Yang Cao
- NSF Research Grant, "Broadcast in Cognitive Radio Ad Hoc Networks," September 2012 – August 2016, \$290,000. PI.
- NSF Research Grant, "CAREER: Towards Seamless Mobility in Cognitive Radio Wireless Networks," January 2010 – December 2015, \$400,000. PI.
- Technical Program Vice Chair, IEEE International Conference on Communications (ICC 2016)
- General Chair, International Conference on Computing, Networking and Communications (ICNC 2016)
- National Science Foundation (NSF) Panelist, 2009-2015
- UNC-Charlotte ADVANCE Leadership Program, 2012-2013