

# Ying Li | Assistant Professor

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## Education

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**University of New Hampshire** **Durham, NH**  
*Ph.D., Computer Science* *2015*  
Dissertation Title: Intermittently Connected Delay-tolerant Wireless Sensor Networks  
Advisor: Radim Bartos

**Hubei University of Technology** **Wuhan, China**  
*M.E., Computer Application Technology* *2007*  
M.E. Thesis Project: Chime Music and Dancing Simulation System

**Hubei University of Technology** **Wuhan, China**  
*B.E., Computer Science and Technology* *2004*  
Senior Project: Secondary Development Based on MAPGIS

## Appointments

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**Department of Computer Science, Colby College** **Waterville, ME**  
*Assistant Professor* *2015–present*

**InterOperability Laboratory (UNH-IOL), University of New Hampshire** **Durham, NH**  
*Research and Development* *2010–2014*

**Computer Network Research Group, University of New Hampshire** **Durham, NH**  
*Research Assistant* *2008–2009*

## Peer-Reviewed Publications

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### Journal Papers.....

1. **Y. Li** and R. Bartos, and J. Swan. Dacksis: An efficient transport protocol with acknowledgment-assisted storage management for intermittently connected wireless sensor networks. Elsevier Journal of Pervasive and Mobile Computing, Volume 13, August 2014. Pages 272-285. (Impact factor 2.485)
2. **Y. Li** and R. Bartos. A survey of protocols for intermittently connected delay-tolerant wireless sensor networks. Elsevier Journal of Network and Computer Applications, Volume 41, May 2014, Pages 411-423, ISSN 1084-8045. (Impact factor 2.366)

## Conference Papers.....

1. **Y. Li** and R. Bartos. Efficient regional information dissemination protocol for intermittently connected mobile wireless sensor networks. The 14th Annual IEEE Consumer Communications & Networking Conference (CCNC 2017), January 2017
2. **Y. Li** and R. Bartos. Interaction Based Routing Algorithm for Opportunistic Mobile Social Networks. In Proceedings of The Annual IEEE Region 3 South East Conference (IEEE SoutheastCon 2016), March 2016. [doi: 10.1109/SECON.2016.7506745]
3. **Y. Li** and R. Bartos. CACAR: Connectedness-aware copy-adaptive routing scheme for intermittently connected wireless sensor networks. In Proceedings of The 17th International Conference on Distributed Computing and Networking (ICDCN 2016), January 2016. [doi: 10.1145/2833312.2833459]
4. **Y. Li**, R. Bartos and M. Charpentier. Performance analysis of local algorithms in large-scale disconnected networks. In Proceedings of The 12th Annual IEEE Consumer Communications & Networking Conference (CCNC 2015), pages 431-436, January 2015.
5. **Y. Li**, B. Noseworthy, J. Laird, T. Winters and T. Carlin. A study of precision of hardware time stamping packet traces. In Proceedings of The International IEEE Symposium on Precision Clock Synchronization for Measurement, Control and Communication (ISPCS 2014), pages 102-107, September 2014.
6. **Y. Li**, R. Bartos, and J. Swan. Transport protocol with acknowledgement-assisted storage management for intermittently connected wireless sensor networks. In Distributed Computing and Networking, volume 7730 of Lecture Notes in Computer Science, pages 57-71, Springer Berlin Heidelberg, 2013. (Acceptance rate of ICDCN 2013 Networking Track 12.5%)
7. **Y. Li** and R. Bartos. Energy efficient reactive store-and-forward protocol for intermittently connected networks. In Proceedings of The IEEE Conference on Global Telecommunications Conference (GLOBECOM 2013), pages 563-568, December 2013.
8. M. Charpentier, R. Bartos, and **Y. Li**. Local algorithms for robust mission realization in large-scale disconnected networks. In Proceedings of The 11th IEEE International Symposium on Network Computing and Applications (NCA 2012), pages 244-248, August 2012.
9. M. Charpentier, R. Bartos, and **Y. Li**. Interaction patterns for resilient intermittently- connected static sensor networks. In Proceedings of The IEEE Conference on Military Communications Conference (MILCOM 2010), pages 581-586, October 2010.

## Other Publications

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- **Y. Li** and Q. Chen. Application of 3D Visual Reality of Campus with OpenGL Technology And 3DS MAX. Journal of Wuhan Institute of Shipbuilding Technology, Issue 02, 2007, Page 37-40, ISSN 1671-8100. (in Chinese)

## Professional Posters and Blogs

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- Poster of my research, Intermittently Connected Delay-tolerant Wireless Sensor Networks, at NeTS Early Career Workshop '15, Washington DC, July 2015
- Poster of the paper, Energy efficient reactive store-and-forward protocol for intermittently connected networks, at University of New Hampshire Graduate Research Conference 2014
- **Y. Li.** IOL INTACT™: BGP Conformance Scripting Made Easy. Technical blog in The InterOp Insider, <https://www.iol.unh.edu/blog/2013/12/18/>

## Awards

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- Natural Sciences Division Grant, 2016-17
- NeTS Early Career Workshop '15 Travel Grant, NSF Workshop Grant, July 2015
- Dissertation Year Fellowship, University of New Hampshire, 2014-2015
- IOL Star Award, InterOperability Laboratory, University of New Hampshire, January 2012
- Dean's Scholarship, University of New Hampshire, 2007, 2008, 2009

## Presentations

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- "Efficient regional information dissemination protocol for intermittently connected mobile wireless sensor networks", The 14th Annual IEEE Consumer Communications & Networking Conference, 2017
- "Efficient regional information dissemination protocol for intermittently connected mobile wireless sensor networks", The Annual IEEE Region 3 South East Conference, 2016
- "Connectedness-aware copy-adaptive routing scheme for intermittently connected wireless sensor networks", International Conference on Distributed Computing and Networking, 2016
- "Performance analysis of local algorithms in large-scale disconnected networks", University of New Hampshire Graduate Research Conference 2015
- "Intermittently connected delay-tolerant wireless sensor networks", Graduate Students Seminar, Department of Computer Science, University of New Hampshire, 2014
- "Energy efficient reactive store-and-forward protocol for intermittently connected networks", IEEE Conference on Global Telecommunications Conference 2013

## Departmental Service Activities

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- Member of the OCS advisory committee, 2016 - 2017

- Member of the search committee for an assistant visiting professor in Physics and Astronomy, 2017
- Member of the search committee for an open-rank professor in computer science, 2016
- Member of the search committee for an assistant visiting professor in computer science, 2016

## Disciplinary Service Activities

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### Reviewer.....

- Poster Judge, ACM Student Research Competition at the Grace Hopper Celebration of Women in Computing, 2016
- External Reviewer of Research Higher Degree Theses, The University of Queensland, 2016
- NSF Ad-hoc Reviewer 2016
- IEEE Communications Surveys and Tutorials
- Elsevier Journal of Network and Computer Applications
- Elsevier Journal of Expert Systems With Applications
- International Journal of Distributed Sensor Networks
- Far East Journal of Electronics and Communications
- IEEE Region 3 South East Conference (SoutheastCon 2016)
- IEEE International Conference on Communications (ICC 2015)
- International IEEE Symposium on Precision Clock Synchronization for Measurement, Control and Communication (ISPCS 2014)

### Session Chair.....

- The Annual IEEE Region 3 South East Conference 2016 (SoutheastCon 2016)
- The 17th International Conference on Distributed Computing and Networking (ICDCN 2016)
- The 12th Annual IEEE Consumer Communications & Networking Conference (CCNC 2015)

## Courses Taught

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### Fall 2016.....

- CS 333: Programming Languages, Enrolled 20
- CS 331: Computer Networks, Enrolled 14

- CS 232: Computer Organization (Lecture), Enrolled 15, Co-teacher Stephanie Taylor
- Spring 2016.....
- CS 232: Computer Organization (Lecture), Enrolled 33, Co-teacher Bruce Maxwell
- CS 151: Computational Thinking: Visual Media Applications (Lab), Enrolled 59, Co-teacher Dale Skrien
- Fall 2015.....
- CS 333: Programming Languages, Enrolled 34
- CS 231: Data Structures and Algorithms (Lab), Enrolled 56, Co-teacher Dale Skrien

## **Conferences and Workshops Attended**

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- The 14th Annual IEEE Consumer Communications & Networking Conference (CCNC), Las Vegas, NV, January 2017
- Grace Hopper Celebration of Women in Computing (GHC), Houston, TX, October 2016
- The Annual IEEE Region 3 South East Conference 2016 (SoutheastCon 2016), Norfolk, VA, April 2016
- ACM Technical Symposium on Computer Science Education (SIGCSE), Memphis, TN, March 2016
- The 17th International Conference on Distributed Computing and Networking (ICDCN), Singapore, January 2016
- Grace Hopper Celebration of Women in Computing (GHC), Houston, TX, October 2015
- NeTS Early Career Workshop, Washington DC, July 2015
- The 12th Annual IEEE Consumer Communications & Networking Conference (CCNC), Las Vegas, NV, January 2015
- The IEEE Conference on Global Telecommunications Conference (GLOBECOM), Atlanta, GA, December 2013
- The 11th IEEE International Symposium on Network Computing and Applications (NCA), Boston, MA, August 2012