

## Na Li

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### ACADEMIC INTERESTS

Privacy and security in networking and social computing, computer education and women in computing

### EDUCATION

2007-2012	Ph.D. Department of Computer Science and Engineering, University of Texas at Arlington. Thesis Title: Effective and Secure Use of Human Relation Networks.
2005-2007	M.S., Computer Network Information Center, Chinese Academy of Sciences, Beijing, China.
2001-2005	B.E., Department of Computer Science, Nan Kai University, China.

### EMPLOYMENT

2020-Present	The Coordinator of Cybersecurity Concentration, Department of Computer Science, Prairie View A&M University
2022-Present	Associate Professor, Department of Computer Science, Prairie View A&M University
2015-2021	Tenure-Track Assistant Professor, Department of Computer Science, Prairie View A&M University
2013-2015	Tenure-Track Assistant Professor, Department of Mathematics, Computer Science and Information Systems, Northwest Missouri State University
2011-2013	Lecturer, Department of Computer Science and Engineering, University of Texas at Arlington.
2009-2012	Research Assistant, Department of Computer Science and Engineering, University of Texas at Arlington.
2007-2009	Teaching Assistant, Department of Computer Science and Engineering, University of Texas at Arlington.

### RESEARCH PUBLICATIONS

#### Journal/Magazine Papers

1. J. Liu, L. Li, and **N. Li**, "Relationship Privacy Preservation in Photo Sharing", under review of Journal of Elsevier, 2023
2. **N. Li**, "Privacy Attacks Against Relationship on OSNs," Encyclopedia of Cryptography, Security and Privacy, edited by Sushil Jajodia, Pierangela Samarati and Moti Yung, Springer, 2021 ([https://link.springer.com/referenceworkentry/10.1007/978-3-642-27739-9\\_1601-1](https://link.springer.com/referenceworkentry/10.1007/978-3-642-27739-9_1601-1))
3. **N. Li** and S. Das, "Efficiently discovering people connectivity in Online Social Networks", the Elsevier Journal of Online Social Networks and Media, vol 16, March 2020.
4. S. Shormin, L. Li and **N. Li**, "Facelock—A Labware for Teaching Photo Privacy in Online Social Networks through Face Recognition", Journal for Computing Sciences in Colleges, 2020.
5. Y. Liu, and **N. Li**, "Retrieving Hidden Friends: A Collusion Privacy Attack Against Online Friend Search Engine", IEEE Transactions on Information Forensics & Security, 2019.
6. **N. Li**, V. Chava, and L. Li "A Labware for Educating Location Privacy Protection in Location-based Services", Journal for Computing Sciences in Colleges, 2017.
7. **N. Li**, Y. Liu, V. M. Doddapaneni and S. S. Malka, "The Design of a Friend Search Web Service for Studying Users' Query Behavior", IEEE Computer Society Special Technical Community on Social Networking E-Letter, Special Issue on Security and Privacy in Online Social Networks, vol. 2, no. 4, December 2014.
8. M. Raj, **N. Li**, D. Liu, M. Wright, and S. K. Das, "Using data mules to preserve source location privacy in Wireless Sensor Networks", (invited) Pervasive and Mobile Computing, Elsevier, vol. 11, April 2014, Pages 244–260.
9. **N. Li**, N. Zhang, and S. K. Das, "Relation privacy disclosure in publishing online networks", in IEEE Internet Computing, Special Issue on Security and Privacy in Social Networks, May/June 2011, vol. 15(3), pp. 35-42.
10. **N. Li** and S. K. Das, "A trust-based framework for data forwarding in opportunistic networks", Ad Hoc Networks Journal, Special Issue on Wireless Communication in Challenged Environments, vol 11(4), pp. 1497–1509, 2013.
11. **N. Li**, N. Zhang, S. K. Das, and B. Thuraisingham, "Privacy preservation in wireless sensor networks: a state-of-the-art survey," Ad Hoc Networks Journal, Special Issue on Privacy and Security in Wireless Sensor and Ad Hoc Networks, vol. 7, Nov. 2009, pp. 1501-1514.
12. Y. Bi, **N. Li**, and L. Sun, "DAR: an energy-balanced data gathering scheme for wireless sensor networks," Elsevier Computer Communications Journal, Special Issue on Network Coverage and Routing Schemes for Wireless Sensor Networks, vol. 7, Oct. 2007, pp. 2812-2825.
13. Y. Bi, L. Sun, and **N. Li**, "BoSS: a moving strategy for mobile sinks in wireless sensor networks," International Journal of Sensor Networks, Special Issue on Interdisciplinary Design of Algorithms and Protocols in Wireless Sensor Networks, Vol. 5, 2009, pp. 173-184.
14. Y. Bi, L. Sun, J. Ma, **N. Li**, I. A. Khan, and C. Chen, "HUMS: an autonomous moving strategy for actuators in data-gathering networks," EURASIP Journal on

Wireless Communications and Networking, Special Issue on Novel Techniques for Analysis & Design of Cross-Layer Optimized wireless Sensor Networks, 2007.

### Conference/Workshop Papers and Demonstrations

1. J. Liu, L. Li and N. Li, "Learning and Preserving Relationship Privacy in Photo Sharing" In the Proceeding of the 9th IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT2022), 2022.
2. N. Li, etc "Hands-on Based Learning of Privacy Concepts and Technologies for Younger Generations" under review, 2022.
3. **N. Li**, R. Murugesan, L. Li, and H. Zheng, "IDEAL: An Interactive De-Anonymization Learning System," In the Proceeding of the 44th IEEE Computer Society Signature Conference on Computers, Software, and Applications (COMPSAC), 2020.
4. **N. Li** and S. Das, "Local View Based Connectivity Search in Online Social Networks", In the Proceeding of Communications and Networking Aspects of Online Social Networks Workshop in conjunction with IEEE International Conference on Computer Communications (Infocom), 2019.
5. **N. Li**, L. Li, and Y. Liu, "FriPEL: Friendship Privacy Educational Labware", In the Proceeding of the 4th International Symposium on Security and Privacy in Social Networks and Big Data (SocialSec 2018) (**Best paper award**).
6. A. Njaka, **N. Li** and L. Li, "Voice Controlled Smart Mirror with Multifactor Authentication" In the Proceeding of the 4th IEEE International Smart Cities Conference (ISC2) 2018.
7. C. Kotteti, Xi. Dong, **N. Li** and L. Qian, "Fake News Detection Enhancement with Data Imputation" In the Proceeding of the IEEE 4th International Conference on Big Data Intelligence and Computing and Cyber Science and Technology Congress (CyberSciTech), 2018.
8. Y. Liu and **N. Li**, "An Advanced Collusion Attack against User Friendship Privacy in OSNs" In the Proceeding of the 40th IEEE Computer Society International Conference on Computers, Software & Applications (COMPSAC 2016) (Symposium on Security, Privacy and Trust in Computing).
9. S. Malka, **N. Li**, V. Doddapaneni, Y. Liu, and A. Pamulapati, "A Web Application For Studying Collusion Attacks Through Friend Search Engine" In the Proceeding of The 11th IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA 2016) in conjunction with the 40th IEEE Computer Society International Conference on Computers, Software & Applications (COMPSAC 2016).
10. **N. Li**, "Privacy-Aware Display Strategy in Friend Search," in IEEE International Conference on Communications (ICC), Communication and Information Systems Security Symposium, pp. 951-956, 2014.
11. M. Di Francesco, **N. Li**, M. Raj, and S. K. Das, "A Storage Infrastructure for Heterogeneous and Multimedia Data in the Internet of Things", in Proceedings of

- IEEE International Conference on Green Computing and Communications (GreenCom), 2012, pp. 26-33, 2012.
12. **N. Li**, S. K. Das, and N. Zhang, "Brief announcement: local-view based subgraph connectivity on online social networks," in Proceedings of 14th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2012).
  13. **N. Li**, "Community Detection on Online Social Networks," presented at Ph.D. Forum in conjunction with ICDCN, Jan 5, 2012 (Best Ph.D. Forum Award).
  14. **N. Li**, M. Raj, D. Liu, M. Wright, and S. K. Das, "Using data mules to preserve source location in wireless sensor networks," in Proceedings of the 13th International Conference on Distributed Computing and Networking (ICDCN 2012), HongKong, Jan 3-6, 2012, pp. 309-324 (Best Paper Nomination).
  15. **N. Li**, N. Zhang, and S. K. Das, "Relationship Privacy Preservation in Publishing Online Social Networks," in Proceedings of the 3rd IEEE International Conference on Social Computing (SocialCom 2011), MIT, Boston, Oct 9-11, 2011, pp. 443 – 450.
  16. M. Di Francesco, **N. Li**, L. Cheng, M. Raj, and S. K. Das, "A framework for multimodal sensing in heterogeneous and multimedia wireless sensor networks," in Proceedings of the 12th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2011), demonstration, Italy, June, 2011.
  17. **N. Li** and S. K. Das, "RADON: reputation-assisted data forwarding in opportunistic network," in Proceedings of the Second International Workshop on Mobile Opportunistic Networking (Mobiopp 2010), Italy, Feb 22-23, 2010, pp 8-14.

### Book Chapters

1. **N. Li**, and S. K. Das, "The applications of k-anonymity and  $l$ -diversity in publishing online social networks", (invited) book chapter, Security and Privacy in Social Networks, pp 153-179, 2013.
2. **N. Li**, N. Zhang, and S. K. Das, "Relation privacy disclosure in publishing online social networks", (invited) book chapter, Chapter 17, Handbook on Securing Cyber-Physical Infrastructure, Morgan Kauffman, 2012.
3. S. K. Das, **N. Li**, and N. Zhang, "Privacy-preserving techniques in wireless sensor networks," (invited) book chapter, Chapter 4, Annals of Emerging Research in IA, Security and Privacy Services, Elsevier, 2008.

### FUNDINGS

2022-2023	Insider Threat Detection, a collaborative project with SMU and Goldman Sachs, PI of PVAMU, \$60,000
2022-2023	Faculty Research & Innovation for Scholarly Excellence (RISE) for Undergraduate Research \$6,000
2022-2023	Faculty Research & Innovation for Scholarly Excellence (RISE) for Graduate Research RCH \$14,000
2017-2023	NSF IUSE: Developing Innovative Privacy Learning Modules to Engage Students in Cybersecurity Education, PI, 2017-2023, \$300,000

- 2017-2018 NSA: Capacity Building on Privacy Education through Curriculum Development, PI, 2017-2018, \$136,282
- 2016 “The Design and Implementation of Friend Search Engine with Privacy Protection”, Research Mini-grant from Prairie View A&M University, solo PI, summer 2016, \$20,000
- 2015-2021 “Building the Security Lab to Enrich Cybersecurity Education in CS at PVAMU”, subcontract from Title III Program at the Department of Education in U.S.

**Journal Program Committee Member:**

The Elsevier Journal of Computer Communications (COMCOM)

The Elsevier Journal of Online Social Networks and Media (OSNEM)

**Media**

<https://www.smu.edu/News/Featured/smu-deason-institute-to-partner-with-goldman-sachs-and-prairie-view-am-for-cyber-security-research>

<https://www.pvamu.edu/blog/pvamu-students-place-second-in-statewide-cybersecurity-competition-with-sandia-national-labs-highlights-universitys-ramped-up-course-offerings/>