

Curriculum Vitae (September 2026)

Yingjiu Li

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Highest Degree: PhD in Information Technology, George Mason University, USA, 2003

Positions Held

Dec. 2019 – Present	Ripple Professor	University of Oregon
Jan. 2011 – Dec. 2019	Associate Professor	Singapore Management University
Aug. 2003 – Dec. 2010	Assistant Professor	Singapore Management University

Research Interests

IoT Security and Privacy, Mobile and System Security, Applied Cryptography and Cloud Security, Data Application Security and Privacy

Refereed Journal Articles

1. Sanidhay Arora, Yingjiu Li, Yebo Feng, Jiahua Xu, “A Risk Scoring Framework for Critical Infrastructure of Decentralized Finance (DeFi),” accepted by Blockchain: Research and Applications, Elsevier, 2026.
2. Rui Shi, Huamin Feng, Yang Yang, Chunjie Cao, Yingjiu Li, Robert Deng, “MobCred: A New Mobile-Cloud Integration Anonymous Credential Framework with Universal Access Policy,” accepted by IEEE Transactions on Mobile Computing (TMC), 2026.
3. Qianyun Yang, Peizhuo Lv, Yingjiu Li, Shengzhi Zhang, Yuxuan Chen, Zhiwei Chen, Zixu Li, Yupeng Hu, “ERASE: Bypassing Collaborative Detection of AI Counterfeit via Comprehensive Artifacts Elimination,” accepted by IEEE Transactions on Dependable and Secure Computing (TDSC), 2026.
4. Rui Shi, Yang Yang, Huamin Feng, Yingjiu Li, Chunjie Cao, Robert Deng, “FlyCred: Contractual Anonymous Credentials Based on Oracles and Events,” IEEE Transactions on Information Forensics and Security (TIFS), 21: 3528-3542, 2026.
5. Congyi Li, Peizhuo Lv, Yuan Gao, Xuejing Yuan, Shengzhi Zhang, Kai Chen, Yingjun Zhang, Yingjiu Li, “FedWM: Data-Free Watermarking for Model Ownership Protection in Federated Learning,” IEEE Transactions on Dependable and Secure Computing (TDSC), 23(3): 5135-5149, 2026.
6. Rui Shi, Huamin Feng, Yang Yang, Yingjiu Li, Xiaolin Li, Robert Deng, “Hecate: Threshold Anonymous Credentials with Private Verifiers and Issuer-Hiding,” IEEE Transactions on Dependable and Secure Computing (TDSC), 23(1): 1160-1172, 2026.
7. Mengjie Chen, Xiao Yi, Daoyuan Wu, Jianliang Xu, Yingjiu Li, Debin Gao, “AGChain: A Blockchain-based Gateway for Trustworthy App Delegation from Mobile App Markets,” Distributed Ledger Technologies: Research and Practice, ACM Journals, 5(3): 30:1-30:22, 2026.
8. Yingjiu Li, Binanda Sengupta, Yangguang Tian, Jiaming Yuan, Tsz Hon Yuen, “Message Control for Blockchain Rewriting,” IEEE Transactions on Dependable and Secure Computing (TDSC), 22(3): 1864-1876, 2025.

9. Sijiang Xie, Rui Shi , Yang Yang , Huiqin Xie , Yingjiu Li , Robert Deng, “AccCred: Improved Accountable Anonymous Credentials with Dynamic Triple-Hiding Committees,” *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 22(3): 1961-1975, 2025.
10. Yuxian Li, Jian Weng, Junzuo Lai, Yingjiu Li, Jiahe Wu, Ming Li, Jianfei Sun, Pengfei Wu, Robert Deng, “AuditPCH: Auditable Payment Channel Hub with Privacy Protection,” *IEEE Transactions on Information Forensics and Security (TIFS)*, 20: 1251-1261, 2025.
11. Xue Wenyi, Yang Yang , Minming Huang, Yingjiu Li, Hwee-Hwa Pang, Robert Deng, “DkvSSO: Delegatable Keyed-Verification Credentials for Efficient Anonymous Single Sign-on,” *IEEE Transactions on Information Forensics and Security (TIFS)*, 20: 4196-4211, 2025.
12. Nan Li, Yingjiu Li, Yangguang Tian, “STPCH: Strongly Traceable Policy-based Chameleon Hash for Blockchain Rewriting,” *The Computer Journal*, 68(11): 1610-1627, 2025.
13. Yingjiu Li, Yan Li, Zilong Wang, “FaceCloseup: Enhancing Mobile Facial Authentication with Perspective Distortion-Based Liveness Detection,” *Computers*, 14(7): 1-24, MDPI, 2025.
14. Nan Li, Yingjiu Li, Mark Manulis, Yangguang Tian, Guomin Yang, “Practical and Secure Policy-based Chameleon Hash for Redactable Blockchains,” *The Computer Journal*, 67(11): 3128-3139, 2024.
15. Rui Shi, Yang Yang, Yingjiu Li, Huamin Feng, Hwee Hwa Pang, Robert Deng, “AnoPas: Practical Anonymous Transit Pass from Group Signatures with Time-Bound Keys,” *Journal of Systems Architecture*, 153: 103184, 2024.
16. Yang Yang, Wenyi Xue, Jianfei Sun, Guomin Yang, Yingjiu Li, HweeHua Pang, Robert Deng, “PkT-SIN: A Secure Communication Protocol for Space Information Networks with Periodic k-Time Anonymous Authentication,” *IEEE Transactions on Information Forensics and Security (TIFS)*, 19: 6097-6112, 2024.
17. Yangguang Tian, Bowen Liu, Yingjiu Li, Pawel Szalachowski, Jianying Zhou, “Accountable Fine-Grained Blockchain Rewriting in the Permissionless Setting,” *IEEE Transactions on Information Forensics and Security (TIFS)*, 19: 1756-1766, 2024.
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20. Rui Shi, Yang Yang, Yingjiu Li, Huamin Feng, Guozhen Shi, HweeHwa Pang, Robert Deng, “Double Issuer-Hiding Attribute-Based Credentials from Tag-Based Aggregatable Mercurial Signatures,” *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 21(4): 2585-2602, 2024.
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22. Yuxian Li, Jian Weng, Wei Wu, Ming Li, Yingjiu Li, Haoxin Tu, Yongdong Wu, Robert Deng, “PRI: PCH-based privacy-preserving with reusability and interoperability for enhancing blockchain scalability,” *Journal of Parallel and Distributed Computing*, 180: 104721, 2023.
23. Rui Shi, Huamin Feng, Yang Yang, Feng Yuan, Yingjiu Li, Hwee Hwa Pang, Robert Deng, “Threshold Attribute-based Credentials with Redactable Signature,” *IEEE Transactions on Services Computing (TSC)*, 16(5): 3751-3765, 2023.

24. Wenyi Xue, Yang Yang, Yingjiu Li, Hwee Hwa Pang, Robert Deng, "ACB-Vote: Efficient, Flexible, and Privacy-Preserving Blockchain-Based Score Voting with Anonymously Convertible Ballots," *IEEE Transactions on Information Forensics and Security (TIFS)*, 18: 3720-3734, 2023.
25. Bowen Zhao, Yingjiu Li, Ximeng Liu, Hwee Hwa Pang, Robert Deng, "Identifiable, But Not Visible: A Privacy-Preserving Person Re-Identification Scheme," *IEEE Transactions on Reliability (TRel)*, 72(4): 1295-1307, 2023.
26. Peizhuo Lv, Pan Li, Shengzhi Zhang, Kai Chen, Ruigang Liang, Hualong Ma, Yue Zhao, Yingjiu Li, "A Robustness-Assured White-Box Watermark in Neural Networks," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 20(6): 5214-5229, 2023.
27. Shengmin Xu, Xinyi Huang, Jiaming Yuan, Yingjiu Li, Robert Deng, "Accountable and Fine-Grained Controllable Rewriting in Blockchains," *IEEE Transactions on Information Forensics and Security (TIFS)*, 18: 101-116, 2023.
28. Shengmin Xu, Jianting Ning, Yingjiu Li, Yinghui Zhang, Guowen Xu, Xinyi Huang, Robert Deng, "A Secure EMR Sharing System with Tamper Resistance and Expressive Access Control," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 20(1): 53-67 2023.
29. Tao Xue, Yu Wen, Bo Luo, Gang Li, Yingjiu Li, Boyang Zhang, Yang Zheng, Yanfei Hu, Dan Meng, "SparkAC: Fine-Grained Access Control in Spark for Secure Data Sharing and Analytics," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 18: 101-116, 2023.
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32. Zhuoran Ma, Jianfeng Ma, Yinbin Miao, Yingjiu Li, Bowen Zhao, Yang Yang, Ximeng Liu, Robert Deng, "ShieldFL: Mitigating Model Poisoning Attacks in Privacy-Preserving Federated Learning," *IEEE Transactions on Information Forensics and Security (TIFS)*, 17: 1639-1654, 2022.
33. Shengmin Xu, Jianting Ning, Yingjiu Li, Yinghui Zhang, Guowen Xu, Xinyi Huang, Robert Deng, "Match in My Way: Fine-Grained Bilateral Access Control for Secure Cloud-Fog Computing," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 19(2): 1064-1077, 2022.
34. Jiayun Xu, Yingjiu Li, Robert Deng, Ke Xu, "SDAC: A Slow-Aging Solution for Android Malware Detection Using Semantic Distance Based API Clustering," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 19(2): 1149-1163, 2022.
35. Yao Cheng, Chang Xu, Zhen Hai, Yingjiu Li, "DeepMnemonic: Password Mnemonic Generation via Deep Attentive Encoder-Decoder Model," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 19(1):77-90, 2022.
36. Binanda Sengupta, Yingjiu Li, Yangguang Tian, Robert Deng, Zheng Yang, "Policy-Based Editing-Enabled Signatures: Authenticating Fine-Grained and Restricted Data Modification," *The Computer Journal (COMPJ)*, 5(10): 2570-2588, Oxford Academic, 2022.
37. Yan Li, Yao Cheng, Weizhi Meng, Yingjiu Li, Robert Deng, "Designing Leakage-Resilient Password Entry on Head-Mounted Smart Wearable Glass Devices," *IEEE Transactions on Information Forensics and Security (TIFS)*, 16: 307-321, 2021.

38. Yangguang Tian, Yingjiu Li, Robert Deng, Binanda Sengupta, Guomin Yang, "Lattice-Based Remote User Authentication from Reusable Fuzzy Signature," *Journal of Computer Security (JCS)*, 29(3): 273-298, IOS Press, 2021.
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40. Shengmin Xu, Jiaming Yuan, Guowen Xu, Yingjiu Li, Ximeng Liu, Yinghui Zhang, Zuobin Ying, "Efficient ciphertext-policy attribute-based encryption with blackbox traceability," *Information Science*, 538: 19-38, 2020.
41. Yangguang Tian, Yingjiu Li, Yi Mu, Guomin Yang, "Unlinkable and Revocable Secret Handshake for IoT," *the Computer Journal (COMPJ)*, 63(4): 536-548, Oxford University Press, 2020.
42. Binanda Sengupta, Yingjiu Li, Yangguang Tian, Robert Deng, "Editing-Enabled Signatures: A New Tool for Editing Authenticated Data," *IEEE Internet of Things (IoT) Journal*, 7(6): 4997-5007, 2020.
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45. Yang Yang, Ximeng Liu, Robert Deng, Yingjiu Li, "Lightweight Sharable and Traceable Secure Mobile Health System," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 17(1): 78-91, 2020.
46. Yangguang Tian, Yingjiu Li, Robert Deng, Pengfei Wu, Nan Li, Anyi Liu, "A New Framework for Privacy-Preserving Biometric-Based Remote User Authentication," *Journal of Computer Security (JCS)*, 28(4): 469-498, 2020.
47. Yangguang Tian, Yingjiu Li, Binanda Sengupta, Nan Li, Chunhua Su, "Leakage-resilient biometric-based remote user authentication with fuzzy extractors," *Theoretical Computer Science*, 814: 223-233, 2020.
48. Yangguang Tian, Yingjiu Li, Ximeng Liu, Robert Deng, Binanda Sengupta, "Privacy-Preserving Biometric-Based Remote User Authentication," *Journal of Internet Technology (JIT)*, 20(7): 2265-2276, Taiwan Academic Network, 2019.
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51. Yangguang Tian, Yingjiu Li, Guomin Yang, Willy Susilo, Yi Mu, Hui Cui, Yinghui Zhang, "DABKE: Secure Deniable Attribute-Based Key Exchange Framework," *Journal of Computer Security*, 27(2): 259-275, 2019.
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60. Yang Yang, Ximeng Liu, Robert Deng, Yingjiu Li, "Lightweight Sharable and Traceable Secure Mobile Health System," *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 17(1): 78-91, 2020 (advance online 2017).
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83. Kuo-Hui Yeh, Chunhua Su, Nai-Wei Lo, Yingjiu Li, Yi-Xiang Hung, "Two Robust Remote User Authentication Protocols Using Smart Cards," *Journal of Systems and Software (JSS)*, 83(2010): 2556-2565, Elsevier, 2010.
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Refereed Conference Publications

1. Yang Yang, Guomin Yang, Yingjiu Li, Minming Huang, David Basin, Hwee Hwa Pang, Robert Deng, "eBind: Privacy-Enhanced and eIDAS 2.0-Compliant Binding of Anonymous Credentials to Humans," accepted by *the ACM Conference on Computer and Communications Security (ACM CCS)*, The Hague, The Netherlands, November 15-19, 2026.
2. Sanidhay Arora, Yingjiu Li, "Entity Resolution on Decentralized Exchanges: An Address Clustering Heuristic to Support Wash-Trade Detection on Ethereum," accepted by *the 1st ACNS Workshop on Intelligent and Secure Computing, In conjunction with ACNS 2026*, Stony Brook, New York, United States, June 22 - 25, 2026.
3. Yang Yang, Guomin Yang, Yingjiu Li, Pengfei Wu, Rui Shi, Minming Huang, Jian Weng, HweeHwa Pang, Robert Deng, "PriSrv+: Privacy and Usability-Enhanced Wireless Service Discovery with Fast and Expressive Matchmaking Encryption," *the Network and Distributed System Security Symposium (NDSS)*, San Diego, United States, Feb 23 - 27, 2026.
4. Yang Yang, Guomin Yang, Yingjiu Li, Minming Huang, Zilin Shen, Imtiaz Karim, Ralf Sasse, David Basin, Elisa Bertino, Jian Weng, HweeHwa Pang, Robert Deng, "AKMA+: Security and Privacy-Enhanced and Standard-Compatible AKMA for 5G Communication," *the 34th USENIX Security Symposium*, 5327-5345, Seattle, WA, USA, August 13-15, 2025 (<https://www.usenix.org/system/files/usenixsecurity25-yang-yang.pdf>).
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Patents

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Technical Contributions to Industry

1. **Android Security Flaws (Google 2016):** A series of Android framework vulnerabilities (unprotected APIs) and attacks on Android 5.1.0 and 4.4.4 (including CVE-2016-0831) discovered by Su Mon Kywe, Yingjiu Li, Tieyan Li, and Yongzheng Wu were reported to Google in 2015 and 2014, respectively. The findings were acknowledged by Google in its Nexus Security Bulletin - March 2016 (<https://source.android.com/security/bulletin/2016-03-01.html>).
2. **iOS Security Flaws (Apple 2013):** A series of iOS framework vulnerabilities (private APIs) and attacks on iOS 5 and iOS 6 (including CVE-2013-0957, CVE-2013-5156, CVE-2013-5157) discovered by Jin Han, Qiang Yan, Su Mon Kywe under the supervision of Yingjiu Li, Robert Deng, Debin Gao, Jianying Zhou, and Feng Bao were reported to Apple’s security team and rectified by Apple in its release of iOS 7 in September 2013 (<http://support.apple.com/kb/HT5934>). The findings were recorded in the paper titled “Launching Generic Attacks on iOS with Approved Third-Party Applications,” authored by Jin Han, Su Mon Kywe, Qiang Yan, Feng Bao, Robert Deng, Debin Gao, Yingjiu Li, Jianying Zhou, and published in *the 11th International Conference on Applied Cryptography and Network Security (ACNS)*, 272-289, Alberta, Canada, June 25-28, 2013.
3. **Secure RFID Track and Trace (Makino Asia Pte. Ltd. 2013):** Consultancy on RFID security was provided to Singapore Institute of Manufacturing Technology (SIMTech) for SIMTech track&solution developed for a company (Makino) in Singapore from November 2012 to February 2013.

Selected Professional Services

- **Editorial Board Member:** IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE, February 2021 - September 2025; IEEE Transactions on Reliability (TRel), IEEE, July 2022 - September 2025; Computers, MDPI, May 2025 - present.
- **Conference Program Committee Member:** CCS (2013, 2018), Oakland (2007-2008, 2014), ES-ORICS (2008, 2013, 2015-2020), AsiaCCS (2007, 2009-2011, 2013-2016), SecureComm (2010, 2016-2017, 2021, 2024), ICDCS (2014), SACMAT (2016, 2024, 2025, 2026), ACNS (2010, 2013, 2019-2020), DBSec (2010-2013, 2016, 2017, 2019-2022), SEC (2018, 2020-2021), ICISC (2005-2009), ICICS (2006-2011, 2013, 2015, 2026), ICISS (2005-2006, 2011, 2013-2014, 2016), ISPEC (2010-2011, 2013-2016, 2018-2019, 2022), CANS (2019), ISC (2011), Inscrypt (2008, 2012, 2015-2018), IEEE-CNS (2013), ACISP (2016, 2022, 2023, 2024), NSS (2011-2012, 2023), ProvSec (2016), DSC (2018), CANS (2019), WPES (2007, 2011, 2016, 2025), RFIDSec (2013-2014), ACM CCSW (2014), SciSec (2022-2023), IEEE GBC (2024)
- **Conference Organization Committee Member:** CCS (Tutorial Co-Chair, 2014), SecureComm (General Chair, 2018), AsiaCCS (Publicity and Publication Chair, 2007), IEEE-CNS (Publicity Co-Chair, 2013), RFIDsec Asia (General Co-Chair, 2013; Program Committee Chair, 2010, 2012, 2014), DBSec (Program Committee Chair, 2011), ICNSBT (International Advisory Committee Member, 2024)

School Services and Committees

- Hiring Committee for Tenure-Track Faculty in Computer Science, CS, University of Oregon, September 2023 - March 2024; September 2024 - April 2025.
- Undergraduate Education Committee, CS, University of Oregon, September 2023 - June 2024.
- Director, Center for Cyber Security and Privacy (CCSP), University of Oregon, January 2023 - September 2023.
- Director of Graduate Studies, Department of Computer Science, University of Oregon, September 2022 - June 2023; September 2024 - June 2025.
- Jun Li, Yingjiu Li, Reza Rejaie, Proposal for Bachelor's Degree in Cybersecurity at the University of Oregon, June 2022. Approved. Officially launched in Fall 2023.
- Dan Carrere, Jun Li, Yingjiu Li, Reza Rejaie, Proposal for Master's Degree in Cybersecurity at the University of Oregon, November 2024. Approved. Expect to launch in Fall 2026.
- Joint Recruiting Committee for Tenure-Track Faculty in Biomedical Data Science, CIS and Math, University of Oregon, October 2021 - March 2022
- Undergraduate Education Committee (UEC), Department of Computer Science, University of Oregon, September 2021 - June 2022.
- Graduate Education Committee (GEC), Department of Computer Science, University of Oregon, October 2020 - June 2021; September 2022 - June 2023; September 2024 - June 2025, September 2025 - June 2026.
- Curriculum Committee (CC), Department of Computer Science, University of Oregon, October 2020 - June 2021; September 2022 - June 2023, September 2025 - June 2026.
- Information Security and Privacy Governance Subcommittee (ISP GC), University of Oregon, October 2020 - June 2021.

Research Talks

- Keynote talk: Accountable Blockchain Rewriting, International Conference on Network Security and Blockchain Technology (ICNSBT 2021), Kolkata, India, December 2-4, 2021.
- Keynote talk: Robust Android Malware Detection, *Information Security Conference (ISC)*, Bali (Indonesia), December 16-20, 2020
- Spitfire talk: Blockchain Rewriting Made Fine-Grained and Accountable, Ripple University Blockchain Research Initiative (UBRI) Connect, October 10-13, 2020.
- Research talk: From Password to Face Biometrics: Attacks and Defences, *Android Security Local Research Day (ASLR-D)* at Google, Sunnyvale, CA, October 25, 2018.

Honors and Awards

- Best Paper Award, *5th IEEE Conference on Dependable and Secure Computing (IEEE DSC)*, Edinburgh, UK, June 22-24, 2022.
- 2021 UBRI Educator Award, *Ripple's University Blockchain Research Initiative (UBRI)*, UBRI Connect, October 11-12, 2021.
- Ripple Professorship, University of Oregon, December 2019 - Present.

- Lee Kong Chian Fellowship, *Singapore Management University*, July 1, 2018 - June 30, 2020.
- Long Service Award in Recognition of Fifteen Years of Dedicated Service, *Singapore Management University*, September 2018.
- Lee Kong Chian Fellowship under the School of Information Systems, *Singapore Management University*, January 1 - December 31, 2015.
- Distinguished Paper Award, *19th Network & Distributed System Security Symposium (NDSS)*, San Diego, California, USA, February 5-8, 2012.
- George Mason University Office of Technology Transfer Awards, *George Mason University*, October 18, 2010.

Media Reports about Research Work Involved

- Decentralized exchange security
 - **Oregon Quarterly:** Cybersecurity Researchers Help Protect the Internet, by Rosemary Howe Camozzi, April 6, 2022 (<https://around.uoregon.edu/content/cybersecurity-researchers-help-protect-internet>).
- RFID security and privacy
 - **ACM TechNews:** Hack-proofing our devices, by Sim Shuzhen, December 28, 2016 (<https://technews.acm.org/archives.cfm?fo=2016-12-dec/dec-28-2016.html#902922>).
- Face authentication with liveness detection
 - **National Research Foundation Singapore:** SMU creates safer face authentication method - Passwords become a thing of the past with safer face authentication technology, *Research, Innovation and Enterprise (RIE) magazine*, issue 2, pages 6-7, July 2018 (snapshot [http://www.mysmu.edu/faculty/yjli/nrf-magazine-\(july-2018\).pdf](http://www.mysmu.edu/faculty/yjli/nrf-magazine-(july-2018).pdf)).
- Android security vulnerabilities discovered
 - **Google Nexus Security Bulletin**, March 2016 (<https://source.android.com/security/bulletin/2016-03-01>).
 - **Google Android Security Acknowledgements**, 2016 (<https://source.android.com/security/overview/acknowledgements>).
- iOS security vulnerabilities discovered
 - **The Straits Times:** Apple fixes iOS 7 after Singapore researchers identify flaws, October 2, 2013 (<https://www.straitstimes.com/singapore/apple-fixes-ios-7-after-singapore-researchers-identify-flaws>).