
Li Lu (卢立)

Research Professor (特聘研究员)

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RESEARCH INTERESTS

IoT Security, Intelligent Voice Security, Autonomous Driving Security, Mobile Sensing, Ubiquitous Computing, Human-Machine Interactions.

EDUCATIONAL BACKGROUND

- Ph.D. in Computer Science and Technology, Shanghai Jiao Tong University, Shanghai, China, 2020.
- B.E. in Computer Science and Technology & B.Admin in Business Administration, Xi'an Jiaotong University, Xi'an, Shaanxi, China, 2015.

RESEARCH EXPERIENCE

- Research Professor, Zhejiang University
 - Location: Hangzhou, Zhejiang, China.
 - Duration: Jul. 2020 -present.
 - Duties: I am a tenure-track research professor of School of Cyber Science and Technology and College of Computer Science and Technology at Zhejiang University, also being a doctoral and master advisor. Currently, I am working on the area of IoT security, intelligent voice security, autonomous driving security, mobile sensing and ubiquitous computing.
- Research Assistant, Shanghai Jiao Tong University
 - Location: Shanghai, China.
 - Duration: Sep. 2015-Jun. 2020.
 - Supervisor: Prof. [Jiadi Yu](#) and Prof. Minglu Li (IEEE Fellow).
 - Duties: Mainly worked on mobile and ubiquitous computing, cyber security and privacy, human-computer interactions. The main work is to adopt signal processing and machine learning techniques in mobile network and applications. Previously also worked on cloud computing and network economic during the early stage of Ph.D. study.
- Visiting Research Student, Rutgers University
 - Location: New Brunswick, NJ, USA.
 - Duration: Oct. 2018-Sep. 2019.
 - Supervisor: Prof. [Yingying Chen](#) (IEEE Fellow, NAI Fellow, ACM Distinguished Scientist).
 - Duties: Mainly worked on acoustic-based communication system and mmWave radar-based sensing applications. The joint Ph.D. training program is supported by China Scholarship Council.
- Summer Internship, Zhejiang University
 - Location: Hangzhou, Zhejiang, China.
 - Duration: Jul. 2014-Aug. 2014.
 - Supervisor: Prof. [Gang Pan](#) (CAAI Fellow).
 - Duties: Mainly worked on Biocomputing, specifically, implementing a PCA algorithm for EEG signals.
- Summer Internship, Xi'an Jiaotong University
 - Location: Xi'an, Shaanxi, China.
 - Duration: Jul. 2013-Aug. 2013.

- Supervisor: Prof: [Yinliang Zhao](#).
- Duties: Mainly worked on the code reverse engineering of ARM-based program.

PUBLICATIONS

Conference Papers

- [C1]. Meng Chen, Xiangyu Xu, **Li Lu***, Zhongjie Ba, Feng Lin, Kui Ren, "Devil in the Room: Triggering Audio Backdoors in the Physical World," in *Proceedings of USENIX Security Symposium (USENIX SEC 2024)*, Philadelphia, PA, USA, Aug. 2024, doi: to appear. [\[CSRankings-Computer security\]](#)
- [C2]. Kun Wang, Xiangyu Xu, **Li Lu***, Zhongjie Ba, Feng Lin, Kui Ren, "FraudWhistler: A Resilient, Robust and Plug-and-play Adversarial Example Detection Method for Speaker Recognition," in *Proceedings of USENIX Security Symposium (USENIX SEC 2024)*, Philadelphia, PA, USA, Aug. 2024, doi: to appear. [\[CSRankings-Computer security\]](#)
- [C3]. Meng Chen, **Li Lu***, Junhao Wang, Jiadi Yu, Yingying Chen, Zhibo Wang, Zhongjie Ba, Feng Lin, Kui Ren, "VoiceCloak: Adversarial Example Enabled Voice De-Identification with Balanced Privacy and Utility," in *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/ACM UbiComp 2023*, vol. 7, no. 2, pp. 48:1-48:21, Cancun, Mexico, Jun. 2023, doi: [10.1145/3596266](#). [\[CSRankings-Human-computer interaction\]](#)
- [C4]. Lei Wang, Meng Chen, **Li Lu***, Zhongjie Ba, Feng Lin, Kui Ren, "VoiceListener: A Training-free and Universal Eavesdropping Attack on Built-in Speakers of Mobile Devices," in *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/ACM UbiComp 2023*, vol. 7, no. 1, pp. 32:1-32:22, Cancun, Mexico, Mar. 2023, doi: [10.1145/3580789](#). [\[CSRankings-Human-computer interaction\]](#)
- [C5]. Qianniu Chen, Meng Chen, **Li Lu***, Jiadi Yu, Yingying Chen, Zhibo Wang, Zhongjie Ba, Feng Lin, Kui Ren, "Push the Limit of Adversarial Example Attack on Speaker Recognition in Physical Domain," in *Proceedings of ACM Conference on Embedded Networked Sensor Systems (ACM SenSys 2022)*, pp. 710-724, Boston, MA, USA, Nov. 2022, doi: [10.1145/3560905.3568518](#). [\[CSRankings-Mobile computing\]](#)
- [C6]. Meng Chen, **Li Lu***, Zhongjie Ba, Kui Ren, "PhoneyTalker: An Out-of-the-Box Toolkit for Adversarial Example Attack on Speaker Recognition," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2022)*, pp. 1419-1428, London, United Kingdom, May 2022, doi: [10.1109/INFOCOM48880.2022.9796934](#).
- [C7]. **Li Lu**, Jiadi Yu, Yingying Chen, Yan Wang, "VocalLock: Sensing Vocal Tract for Passphrase-Independent User Authentication Leveraging Acoustic Signals on Smartphones," in *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/ACM UbiComp 2020*, vol. 4, no. 2, pp. 51:1-51:24, Cancun, Mexico, Jun. 2020, doi: [10.1145/3397320](#). [\[CSRankings-Human-computer interaction\]](#)
- [C8]. **Li Lu**, Jiadi Yu, Yingying Chen, Yanmin Zhu, Minglu Li, Xiangyu Xu, "I³: Sensing Scrolling Human-Computer Interactions for Intelligent Interest Inference on Smartphones," in *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/ACM UbiComp 2019*, vol. 3, no. 3, pp. 97:1-97:22, London, England, Sep. 2019, doi: [10.1145/3351255](#). [\[CSRankings-Human-computer interaction\]](#)
- [C9]. **Li Lu**, Jiadi Yu, Yingying Chen, Yanmin Zhu, Xiangyu Xu, Guangtao Xue, Minglu Li, "KeyListener: Inferring Keystrokes on QWERTY Keyboard of Touch Screen through Acoustic Signals," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2019)*, pp. 775-783, Paris, France, Apr. 2019, doi: [10.1109/INFOCOM.2019.8737591](#).
- [C10]. **Li Lu**, Jiadi Yu, Yingying Chen, Hongbo Liu, Yanmin Zhu, Yunfei Liu, Minglu Li, "LipPass: Lip Reading-based User Authentication on Smartphones Leveraging Acoustic Signals," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2018)*, pp. 1466-1474, Honolulu, HI, USA, Apr. 2018, doi: [10.1109/INFOCOM.2018.8486283](#).
- [C11]. **Li Lu**, Zhongjie Ba, Feng Lin, Jinsong Han, Kui Ren, "ActListener: Imperceptible Activity Surveillance by Pervasive Wireless Infrastructures," in *Proceedings of IEEE International Conference on Distributed Computing Systems (IEEE ICDCS 2022)*, pp. 776-786, Bologna, Italy, Jul. 2022, doi: [10.1109/ICDCS54860.2022.00080](#).

- [C12]. Qianniu Chen, Zhehan Gu, **Li Lu***, Xiangyu Xu, Zhongjie Ba, Feng Lin, Zhenguan Liu, Kui Ren, "Conan's Bow Tie: A Streaming Voice Conversion for Real-Time VTuber Livestreaming," in *Proceedings of ACM Conference on Intelligent User Interface (ACM IUI 2024)*, Greenville, SC, USA, Mar. 2024, doi: to appear.
- [C13]. Junhao Wang, **Li Lu***, Zhongjie Ba, Feng Lin, Kui Ren, "Shift to Your Device: Data Augmentation for Device-Independent Speaker Verification Anti-Spoofing," in *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (IEEE ICASSP 2023)*, Rhodes Island, Greece, Jun. 2023, doi: [10.1109/ICASSP49357.2023.10097168](https://doi.org/10.1109/ICASSP49357.2023.10097168).
- [C14]. Hao Kong and **Li Lu**¹, Jiadi Yu, Yingying Chen, Yanmin Zhu, Linghe Kong, Minglu Li, "FingerPass: Finger Gesture-based Continuous User Authentication for Smart Homes Using Commodity WiFi," in *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (ACM MobiHoc 2019)*, pp. 201-210, Catania, Italy, Jul. 2019, doi: [10.1145/3323679.3326518](https://doi.org/10.1145/3323679.3326518).
- [C15]. **Li Lu**, Jian Liu, Jiadi Yu, Yingying Chen, Yanmin Zhu, Xiangyu Xu, Minglu Li, "VPad: Virtual Writing Tablet for Laptops Leveraging Acoustic Signals," in *Proceedings of IEEE International Conference on Parallel and Distributed Systems (IEEE ICPADS 2018)*, pp. 244-251, Sentosa, Singapore, Dec. 2018, doi: [10.1109/PADSW.2018.8644615](https://doi.org/10.1109/PADSW.2018.8644615).
- [C16]. **Li Lu**, Jiadi Yu, Yanmin Zhu, Shiyu Qian, Guangtao Xue, Minglu Li, "Cost-Efficient VM Configuration Algorithm in the Cloud using Mix Scaling Strategy," in *Proceedings of IEEE International Conference of Communications (IEEE ICC 2017)*, pp. 1-6, Paris, France, May 2017, doi: [10.1109/ICC.2017.7997241](https://doi.org/10.1109/ICC.2017.7997241).
- [C17]. Qianniu Chen, Kang Fu, **Li Lu***, Meng Chen, Zhongjie Ba, Feng Lin, Kui Ren, "ByTalker: An Adaptive Adversarial Example Attack to Bypass Prefilter-enabled Speaker Recognition," in *Proceedings of IEEE International Conference on Mobility, Sensing and Networking (IEEE MSN 2023)*, Nanjing, China, Dec. 2023, doi: to appear.
- [C18]. Zhongjie Ba, Qingyu Liu, Zhenguang Liu, Shuang Wu, Feng Lin, **Li Lu**, Kui Ren, "Exposing the Deception: Uncovering More Forgeries Clues for Deepfake Detection," in *Proceedings of AAAI Conference on Artificial Intelligence (AAAI 2024)*, Vancouver, BC, Canada, 2024, doi: to appear. [\[CSRankings-Artificial intelligence\]](#)
- [C19]. Xiangyu Xu, Yu Chen, Zhen Ling, **Li Lu**, Junzhou Luo, Xinwen Fu, "mmEar: Push the Limit of COTS mmWave Eavesdropping on Headphones," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2024)*, Vancouver, Canada, 2024, doi: to appear.
- [C20]. Peng Cheng, Yuwei Wang, Peng Huang, Zhongjie Ba, Xiaodong Lin, Feng Lin, **Li Lu**, Kui Ren, "ALIF: Low-Cost Adversarial Audio Attacks on Black-Box Speech Platforms Using Linguistic Features," in *Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P 2024)*, San Francisco, CA, USA, 2024, doi: [10.1109/SP54263.2024.00056](https://doi.org/10.1109/SP54263.2024.00056). [\[CSRankings-Computer security\]](#)
- [C21]. Liu Liu, Xinwen Fu, Xiaodong Chen, Jianpeng Wang, Zhongjie Ba, Feng Lin, **Li Lu**, Kui Ren, "FITS: Matching Camera Fingerprints Subject to Software Noise Pollution," in *Proceedings of ACM Conference on Computer and Communications Security (ACM CCS 2023)*, pp. 1660–1674, Copenhagen, Denmark, 2023, doi: [10.1145/3576915.3616600](https://doi.org/10.1145/3576915.3616600). [\[CSRankings-Computer security\]](#)
- [C22]. Tiantian Liu, Feng Lin, Zhangsen Wang, Chao Wang, Zhongjie Ba, **Li Lu**, Wen Yao Xu, Kui Ren, "MagBackdoor: Beaware of Your Loudspeaker as Backdoor of Magnetic Attack for Malicious Command Injection," in *Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P 2023)*, San Francisco, CA, USA, 2023, doi: [10.1109/SP46215.2023.00132](https://doi.org/10.1109/SP46215.2023.00132). [\[CSRankings-Computer security\]](#)
- [C23]. Peng Huang, Yao Wei, Peng Cheng, Zhongjie Ba, **Li Lu**, Feng Lin, Fan Zhang, Kui Ren, "InfoMasker: Preventing Eavesdropping Using Phoneme-Based Noise," in *Proceedings of Network and Distributed System Security Symposium (NDSS 2023)*, San Diego, CA, USA, Feb. 2023, doi: [10.14722/ndss.2023.24457](https://doi.org/10.14722/ndss.2023.24457). [\[CSRankings-Computer security\]](#)
- [C24]. Ziwei Liu, Feng Lin, Chao Wang, Yijie Shen, Zhongjie Ba, **Li Lu**, Wen Yao Xu, Kui Ren, "CamRadar: Hidden Camera Detection Leveraging Amplitude-modulated Sensor Images Embedded in Electromagnetic Emanations," in *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/ACM Ubicomp 2023*, vol. 6, no. 4, pp. 173:1-173:25, Cancun, Mexico, Dec. 2022, doi: [10.1145/3569505](https://doi.org/10.1145/3569505). [\[CSRankings-Human-computer interaction\]](#)

¹ Hao Kong and **Li Lu** are the co-first authors of this paper.

- [C25]. Yijie Shen, Zhe Ma, Feng Lin, Hao Yan, Zhongjie Ba, **Li Lu**, Wenyao Xu, Kui Ren, "FingerFaker: Spoofing Attack on COTS Fingerprint Recognition Without Victim's Knowledge," in *Proceedings of ACM Conference on Embedded Networked Sensor Systems (ACM SenSys 2023)*, Istanbul, Turkiye, Nov. 2023, doi: to appear. [\[CSRankings-Mobile computing\]](#)
- [C26]. Zhongjie Ba, Qing Wen, Peng Cheng, Yuwei Wang, Feng Lin, **Li Lu**, Zhenguang Liu, "Transferring Audio Deepfake Detection Capability across Languages," in *Proceedings of ACM Web Conference (ACM WWW 2023)*, pp. 2033-2044, Austin, TX, USA, Apr. 2023, doi: [10.1145/3543507.3583222](#). [\[CSRankings-The Web & information retrieval\]](#)
- [C27]. Hao Kong, **Li Lu**, Jiadi Yu, Yanmin Zhu, Feilong Tang, Yi-Chao Chen, Linghe Kong, Feng Lyu, "Push the Limit of WiFi-based User Authentication towards Undefined Gestures," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2022)*, pp. 410-419, London, United Kingdom, May 2022, doi: [10.1109/INFOCOM48880.2022.9796740](#).
- [C28]. Yike Chen, Ming Gao, Yimin Li, Lingfeng Zhang, **Li Lu**, Feng Lin, Jinsong Han, Kui Ren, "Big Brother is Listening: An Evaluation Framework on Ultrasonic Microphone Jammers," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2022)*, pp. 1119-1128, London, United Kingdom, May 2022, doi: [10.1109/INFOCOM48880.2022.9796834](#).
- [C29]. Chao Wang, Feng Lin, Tiantian Liu, Ziwei Liu, Yijie Shen, Zhongjie Ba, **Li Lu**, Wenyao Xu, Kui Ren, "mmPhone: Acoustic Eavesdropping on Loudspeakers via mmWave-characterized Piezoelectric Effect," in *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2022)*, pp. 820-829, London, United Kingdom, May 2022, doi: [10.1109/INFOCOM48880.2022.9796806](#).
- [C30]. Hao Kong, **Li Lu**, Jiadi Yu, Yingying Chen, Xiangyu Xu, Feilong Tang, Yi-chao Chen, "MultiAuth: Enable Multi-User Authentication with Single Commodity WiFi Device," in *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (ACM MobiHoc 2021)*, pp.31-40, Shanghai, China, Jul. 2021, doi: [10.1145/3466772.3467032](#).
- [C31]. Yang Bai, Jian Liu, **Li Lu**, Yilin Yang, Yingying Chen, Jiadi Yu, "BatComm: Enabling Inaudible Acoustic Communication with High-throughput for Mobile Devices," in *Proceedings of ACM Conference on Embedded Networked Sensor Systems (ACM SenSys 2020)*, Yokohama, Japan, Nov. 2020. doi: [10.1145/3384419.3430773](#). [\[CSRankings-Mobile computing\]](#)
- [C32]. Hua Xue, Jiadi Yu, Yanmin Zhu, **Li Lu**, Shiyu Qian, Minglu Li, "WiZoom: Accurate Multipath Profiling using Commodity WiFi Devices with Limited Bandwidth," in *Proceedings of Annual IEEE International Conference on Sensing, Communication, and Networking (IEEE SECON 2019)*, pp. 1-9, Boston, MA, USA, Jun. 2019, doi: [10.1109/SAHCN.2019.8824859](#).
- [C33]. Liu Liu, Hanlin Yu, Zhongjie Ba, **Li Lu**, Feng Lin, Kui Ren, "PassFace: Enabling Practical Anti-Spoofing Facial Recognition with Camera Fingerprinting," in *Proceedings of IEEE International Conference on Communications (IEEE ICC 2021)*, pp. 1-6, Montreal, Canada, Jun. 2021, doi: [10.1109/ICC42927.2021.9501053](#).
- [C34]. Yanhua Cao, **Li Lu**, Jiadi Yu, Shiyu Qian, Yanmin Zhu, Minglu Li, "Online Cost-Aware Service Requests Scheduling in Hybrid Clouds for Cloud Bursting," in *Proceedings of the 18th International Conference on Web Information Systems Engineering (WISE 2017)*, pp. 259-274, Moscow, Russia, Oct. 2017, doi: [10.1007/978-3-319-68783-4_18](#).
- [C35]. Qiang Wu, Jiadi Yu, **Li Lu**, Shiyu Qian, Guangtao Xue, "Dynamically Adjusting Scale of a Kubernetes Cluster Under QoS Guarantee," in *Proceedings of IEEE International Conference on Parallel and Distributed Systems (IEEE ICPADS 2019)*, pp. 193-200, Tianjin, China, Dec. 2019, doi: [10.1109/ICPADS47876.2019.00037](#).
- [C36]. Ahmad Ali, **Li Lu**, Yanmin Zhu, Jiadi Yu, "An Energy Efficient Algorithm for Virtual Machine Allocation in Cloud Datacenters," in *Proceedings of Conference on Advanced Computer Architecture (CCF ACA 2016)*, pp. 61-72, Weihai, Shandong, China, Aug. 2016, doi: [10.1007/978-981-10-2209-8_6](#).

Journal Papers

- [J1]. Meng Chen, **Li Lu***, Jiadi Yu, Zhongjie Ba, Feng Lin, Kui Ren, "AdvReverb: Rethinking the Stealthiness of Audio Adversarial Examples to Human Perception," *IEEE Transactions on Information Forensics and Security*, vol. 19, pp. 1948-1962, Jan. 2024. doi: [10.1109/TIFS.2023.3345639](#).

- [J2]. Hao Kong, **Li Lu***, Jiadi Yu, Yingying Chen, Xiangyu Xu, Feng Lyu, "Towards Multi-User Authentication Using WiFi Signals," *IEEE/ACM Transactions on Networking*, vol. 31, no. 5, pp. 2117-2132, Oct. 2023. doi: [10.1109/TNET.2023.3237686](https://doi.org/10.1109/TNET.2023.3237686).
- [J3]. **Li Lu**, Jiadi Yu, Yingying Chen, Hongbo Liu, Yanmin Zhu, Minglu Li, "Lip Reading-Based User Authentication Through Acoustic Sensing on Smartphones," *IEEE/ACM Transactions on Networking*, vol. 27, no. 1, pp. 447-460, Feb. 2019, doi: [10.1109/TNET.2019.2891733](https://doi.org/10.1109/TNET.2019.2891733). (Reported by multiple media including IEEE Spectrum, Sohu Tech, etc.)
- [J4]. **Li Lu**, Jiadi Yu, Yanmin Zhu, Minglu Li, "A Double Auction Mechanism to Bridge Users' Task Requirements and Providers' Resources in Two-Sided Cloud Markets," *IEEE Transactions on Parallel and Distributed Systems*, vol. 29, no. 4, pp. 720-733, Dec. 2018, doi: [10.1109/TPDS.2017.2781236](https://doi.org/10.1109/TPDS.2017.2781236).
- [J5]. **Li Lu**, Jiadi Yu, Minglu Li, "Towards a Real-Time Anti-Theft Method for Mobile Devices Leveraging Acoustic Sensing," *Chinese Journal of Computers*, vol. 43, no. 10, pp. 2002-2018, Oct. 2020, doi: [10.11897/SP.J.1016.2020.02002](https://doi.org/10.11897/SP.J.1016.2020.02002).
- [J6]. **Li Lu**, Jian Liu, Jiadi Yu, Yingying Chen, Yanmin Zhu, Linghe Kong, Minglu Li, "Enable Traditional Laptops with Virtual Writing Capability Leveraging Acoustic Signals," *The Computer Journal*, vol. 64, no. 12, pp. 1814-1831, Dec. 2021, doi: [10.1093/comjnl/bxz153](https://doi.org/10.1093/comjnl/bxz153).
- [J7]. Jiadi Yu, **Li Lu**, Yingying Chen, Yanmin Zhu, Linghe Kong, "An Indirect Eavesdropping Attack of Keystrokes on Touch Screen through Acoustic Sensing," *IEEE Transactions on Mobile Computing*, vol. 20, no. 2, pp. 337-351, Feb. 2020, doi: [10.1109/TMC.2019.2947468](https://doi.org/10.1109/TMC.2019.2947468).
- [J8]. Hao Kong, **Li Lu**, Jiadi Yu, Yingying Chen, Feilong Tang, "Continuous Authentication through Finger Gesture Interaction for Smart Homes Using WiFi," *IEEE Transactions on Mobile Computing*, vol. 20, no. 11, pp. 3148-3162, May 2020, doi: [10.1109/TMC.2020.2994955](https://doi.org/10.1109/TMC.2020.2994955).
- [J9]. Feng Lin, Chao Wang, Tiantian Liu, Ziwei Liu, Yijie Shen, Zhongjie Ba, **Li Lu**, Wenyao Xu, Kui Ren, "High-quality Speech Recovery Through Soundproof Protections via mmWave Sensing," *IEEE Transactions on Dependable and Secure Computing*, 2023, doi: [10.1109/TDSC.2023.3322295](https://doi.org/10.1109/TDSC.2023.3322295).
- [J10]. Yijie Shen, Feng Lin, Chao Wang, Tiantian Liu, Zhongjie Ba, **Li Lu**, Wenyao Xu, Kui Ren, "MotoPrint: Reconfigurable Vibration Motor Fingerprint via Homologous Signals Learning," *IEEE Transactions on Dependable and Secure Computing*, 2023, doi: [10.1109/TDSC.2023.3253507](https://doi.org/10.1109/TDSC.2023.3253507).
- [J11]. Ming Gao, Yike Chen, Yimin Li, Lingfeng Zhang, Jianwei Liu, **Li Lu**, Feng Lin, Jinsong Han, Kui Ren, "A Resilience Evaluation Framework on Ultrasonic Microphone Jammers," *IEEE Transactions on Mobile Computing*, Feb. 2023, doi: [10.1109/TMC.2023.3244581](https://doi.org/10.1109/TMC.2023.3244581).
- [J12]. Peng Cheng, Yuexin Wu, Yuan Hong, Zhongjie Ba, Feng Lin, **Li Lu**, Kui Ren, "UniAP: Protecting Speech Privacy with Non-targeted Universal Adversarial Perturbations," *IEEE Transactions on Dependable and Secure Computing*, Feb. 2023, doi: [10.1109/TDSC.2023.3242292](https://doi.org/10.1109/TDSC.2023.3242292).
- [J13]. Yang Bai, **Li Lu**, Jerry Cheng, Jian Liu, Yingying Chen, Jiadi Yu, "Acoustic-based Sensing and Applications: A Survey," *Computer Networks*, vol. 181, pp. 107447:1-107447:19, Nov. 2020, doi: [10.1016/j.comnet.2020.107447](https://doi.org/10.1016/j.comnet.2020.107447).
- [J14]. Cong Shi, **Li Lu**, Jian Liu, Yan Wang, Yingying Chen, Jiadi Yu, "mPose: Environment- and Subject-Agnostic 3D Skeleton Posture Reconstruction Leveraging a Single mmWave Device", *Smart Health/IEEE/ACM CHASE*, vol. 23, pp. 100228:1-100228:14, Nov. 2021, doi: [10.1016/j.smhl.2021.100228](https://doi.org/10.1016/j.smhl.2021.100228). (Invited Paper of IEEE/ACM CHASE 2021)
- [J15]. Yanhua Cao, **Li Lu**, Jiadi Yu, Shiyong Qian, Yanmin Zhu, Minglu Li, "Online Cost-rejection Rate Scheduling for Resource Requests in Hybrid Clouds," *Parallel Computing*, vol. 81, pp. 85-103, Jan. 2019, doi: [10.1016/j.parco.2018.12.003](https://doi.org/10.1016/j.parco.2018.12.003).

Posters

- [CP1]. Meng Chen, **Li Lu***, Jiadi Yu, Yingying Chen, Zhongjie Ba, Feng Lin, Kui Ren, "A Non-intrusive and Adaptive Speaker De-Identification Scheme Using Adversarial Examples," in *Proceedings of the 28th Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2022)*, pp. 853-855, Sydney, Australia, Oct. 2022. doi: [10.1145/3495243.3558260](https://doi.org/10.1145/3495243.3558260). [CSRankings-Mobile computing]
- [CP2]. Yang Bai, Jian Liu, Yingying Chen, **Li Lu**, Jiadi Yu, "Poster: Inaudible High-throughput Communication Through Acoustic Signals," in *Proceedings of the 25th Annual International Conference*

on *Mobile Computing and Networking (ACM MobiCom 2019)*, pp. 79:1-79:3, Los Cabos, Mexico, Oct. 2019, doi: [10.1145/3300061.3343405](https://doi.org/10.1145/3300061.3343405). [CSRankings-Mobile computing]

FUNDING

- Software-Hardware Collaborated Unknown Cyber Attacks Autonomous Detection Techniques for Intelligent Driving Systems, National Key R&D Program of China, 2023.12-2026.11, PI.
- Research on Enhancing Voiceprint Authentication by Sensing Vocal Tract Leveraging Acoustic Signals, National Natural Science Foundation of China, 2022.01-2024.12, PI.
- Research on Real-time Voice Anonymization Techniques in Physical Domain, Natural Science Foundation of Zhejiang Province, 2024.01-2026.12, PI.
- Acoustic-based Voiceprint Anti-spoofing Techniques, ZJU-Huawei Joint Lab, 2021.09-2022.09, PI.
- Research on Universal Adversarial Example Generation for Voiceprint Authentication, Fundamental Research Funds for the Central Universities, 2021.01-2023.12, PI.

TEACHING

- Computer Systems II, Undergraduate teaching reform course for information security and Turing class, 21121840, Fall-Winter 2021-2023.
- Computer Systems I, Undergraduate teaching reform course for information security and Turing class, 21121830, Spring-Summer 2021-2023.
- Foundations of Wireless and IoT Security, Undergraduate, 21191930, Spring-Summer 2021-2023.
- Frontier Techniques and Research Methodology in Cyber Science, Graduate, 2102001001, Spring-Summer 2021-2022.
- Wireless and IoT Security, Graduate, 2124096001, Fall-Winter 2020-2023.
- Software Engineering, Undergraduate, Spring-Summer 2018, Fall-Winter 2017, Fall-Winter 2015, Teaching Assistant @Shanghai Jiao Tong University with Prof. Jiadi Yu.

AWARDS

- ACM China SIGAPP Chapter Rising Star Award, ACM China SIGAPP, 2023.
- Distinguished Service Award, IEEE GreenCom, 2023.
- Excellent Collaboration Award, Huawei-ZJU Joint Laboratory on System and Data Security, 2023.
- 3rd Award of National College Student Information Security Contest (Advisor), Education Steering Committee of the Ministry of Education for the Major of Cyber Science, 2023.
- Best Poster Runner-up Award, ACM MobiCom, 2022.
- Shanghai Computer Society Doctoral Dissertation Award Nominations, Shanghai Computer Society, 2020.
- ACM China SIGAPP Chapter Doctoral Dissertation Award, ACM China SIGAPP, 2020.
- Outstanding Graduate of Shanghai, Shanghai Education Committee, 2020.
- First Runner-up Poster Award, ACM MobiCom, 2019.
- Travel Grant of Global Young Scientist Summit of Singapore, National Research Foundation, 2019.
- Joint Ph.D. Training Grant, China Scholarship Council, 2018.
- National Scholarship for Doctoral Students, Ministry of Education of the People's Republic of China, 2018, 2019.
- Outstanding Graduate, Xi'an Jiaotong University, 2015.
- Excellent Undergraduate Student, Xi'an Jiaotong University, 2012-2014.
- National Encouragement Scholarship, Xi'an Jiaotong University, 2012, 2014.
- Lu Shidi 2nd Scholarship, Xi'an Jiaotong University, 2013.

PROFESSIONAL SERVICES

- Academic Organization Service: Executive Committee Member in China Computer Federation Technical Committee on Pervasive Computing (CCF TCPC) and Technical Committee on Internet of Things (CCF TCIoT)
Deputy Secretary-general of Technical Committee in Zhejiang Cyber Space Security Association
- Technical Program Committee: IEEE INFOCOM 2022-2024
IEEE ICDCS 2022-2023
IEEE/ACM IWQoS 2021, 2023
IEEE ICPADS 2019, 2022, 2023
IEEE Metaverse 2023
IEEE GreenCom 2023
CCF DPCS 2023
- Reviewer: IEEE Transactions on Dependable and Secure Computing, IEEE Transactions on Mobile Computing, IEEE/ACM Transactions on Networking, IEEE Transactions on Services Computing, IEEE Transactions on Computers, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, ACM Computing Surveys, IEEE Transactions on Vehicular Technology, ACM Transactions on Sensor Networks, IEEE Transactions on Multimedia, IEEE Transactions on Network Science and Engineering, Computer Networks, Knowledge-based Systems, Chinese Journal of Electronics, ACM MM 2023, IEEE ICASSP 2023-2024, IEEE Internet of Things Journal, Pervasive and Mobile Computing, Expert Systems with Applications, Smart Health, Journal of Cloud Computing, Sensors, Journal of Cybersecurity and Privacy, IEEE ICC 2017, ACM AIIPCC 2019
- Co-Reviewer: IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Industrial Informatics, ACM Transactions on Privacy and Security, IEEE Transactions on Network and Service Management, Journal of Computer Security, ACM CCS, ACM MobiSys, IEEE PerCom, IEEE DySPAN
- Member: China Computer Federation (CCF)
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