

Lifeng Lai, PhD

Department of Electrical and Computer Engineering
University of California, Davis
Davis, CA, 95616
Office Phone: 530-752-7978
Email: lfai@ucdavis.edu
Webpage: <http://faculty.engineering.ucdavis.edu/lai/>

EDUCATION & PROFESSIONAL TRAINING

- **Princeton University**, Princeton, New Jersey, USA
Postdoctoral Research Associate in Electrical Engineering, Oct. 2007 - Aug. 2009
Mentor: H. Vincent Poor
 - **Ohio State University**, Columbus, Ohio, USA
Ph.D. in Electrical and Computer Engineering, 2007
Advisor: Hesham El Gamal
 - **Zhejiang University**, Hangzhou, China
M.E. in Information Science and Electrical Engineering, 2004
B.E. in Information Science and Electrical Engineering, 2001
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EMPLOYMENT

- **Professor**, University of California, Davis, Jul. 2020 -
 - **Vice Chair for Graduate Studies and Chair of ECE Graduate Program**, University of California, Davis, Jul. 2022 - June 2024
 - **Associate Professor**, University of California, Davis, Jul. 2016 - June 2020
 - **Assistant Professor**, Worcester Polytechnic Institute, Aug. 2012 - June 2016
 - **Assistant Professor**, University of Arkansas, Little Rock, Aug. 2009 - Jul. 2012
 - **Postdoctoral Research Associate**, Princeton University, Oct. 2007 - Aug. 2009
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AWARDS and HONORS

- **IEEE Fellow**, Class of 2026
- **International Academy of Artificial Intelligence Sciences (AAIS) Fellow**, Class of 2026
- **Best Paper Award**, *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, 2012
- **Northrop Young Researcher Award**, *University of Arkansas, Little Rock*, 2012
- **Visiting Faculty Fellowship Award**, *Air Force Research Laboratory*, 2012
- **CAREER Award**, *National Science Foundation*, 2011
- **Best Paper Award**, *IEEE International Conference on Communications (ICC)*, 2011
- **Best Paper Award**, *IEEE Global Communications Conference (Globecom)*, 2008
- **Best Student Paper Award**, finalist, *IEEE International Symposium on Information Theory (ISIT)*, 2007

GRANTS

- [G22] **Sole PI**, “Risk-Sensitive Reinforcement Learning via Coherent Risk Measures: Framework and Algorithms”, **National Science Foundation**, *Division of Electrical, Communications and Cyber Systems*, ECCS-24-48268, \$360,000, Oct. 2025 - Sept. 2028
- [G21] **Co-PI**, “Collaborative Over-the-Air Sensing (COTAS) Edge Networks Achieving High Spectral Efficiency: Framework, Algorithms, and Analysis”, **National Science Foundation**, *Division of Computer and Network Systems*, ECCS-25-14514, with PI Zhi Ding, \$300,000, Sept. 2025 - Aug. 2028
- [G20] **Sole PI**, “CIF: Small: Adversarially Robust Reinforcement Learning: Attack, Defense, and Analysis”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-22-32907, \$500,000, July 2023 - June 2026
- [G19] **Sole PI**, “CIF: Small: kNN Methods for Functional Estimation and Machine Learning”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-21-12504, \$500,000, Oct. 2021 - Sept. 2025
- [G18] **PI**, “CCSS: Collaborative Research: Sketching for High Dimensional Data Analysis in IoT”, **National Science Foundation**, *Division of Electrical, Communications and Cyber Systems*, ECCS-20-00415, with Professor Weiyu Xu of University of Iowa. Total \$400,000, UC Davis Share: \$200,000, Aug. 2020 - July 2024
- [G17] **Co-PI**, “Nonsmooth Riemannian Optimization for Online Learning”, **CeDAR Innovative Data Science Seed Funding Program**, with PI Shiqian Ma, \$40,000, Apr. 2020 - Apr. 2022
- [G16] **Co-PI**, “Bladder Volume Awareness for Individuals Living with Spinal Cord Injury”, **National Science Foundation**, *Division of Chem, Bioeng, Env, and Transp Sys*, CBET-19-37158, with PI Soheil Ghiasi and Co-PI Eric Kurzrock, \$389,926, Mar. 2020 - Feb. 2024
- [G15] **Senior Personnel**, “HDR TRIPODS: UC Davis TETRAPODS Institute of Data Science”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-19-34568, \$1,500,000, Oct. 2019 - Sept. 2024
- [G14] **Sole PI**, “CIF: Small: Adversarially Robust Statistical Inference”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-19-08258, \$499,996, Oct. 2019 - Sept. 2023
- [G13] **Co-PI**, “Towards Secure Decision Making in Spectrum and Energy Efficient IoT Systems”, **National Science Foundation**, *Division of Computer and Network Systems*, CNS-18-24553, with PI Zhi Ding and Co-PI Shuguang Cui, \$550,000, Oct. 2018 - Sept. 2023
- [G12] **Sole PI**, “CIF: Small: Distributed Statistical Inference with Compressed Data”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-17-17943, \$449,996, July 2017 - June 2022
- [G11] **Sole PI**, “CCSS: Quickest Detection Under Energy Constraints”, **National Science Foundation**, *Division of Electrical, Communications and Cyber Systems*, ECCS-17-11468, \$330,000, July 2017 - June 2021
- [G10] **PI**, “CIF: Small: Collaborative Research: Secret Key Generation Under Resource Constraints”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-16-18017, with Professor Yingbin Liang of Syracuse University. Total \$500,000, UC Davis share: \$250,000, Aug. 2016 - July 2020
- [G9] **PI**, “WiFiUS: Collaborative Research: Sequential Inference and Learning for Agile Spectrum Use”, **National Science Foundation**, *Division of Computer and Network Systems*, CNS-14-57076, with Professor H. Vincent Poor of Princeton University. Total \$285,000, personal share \$135,000, Mar. 2015 - Mar. 2018

- [G8] **PI**, “CCSS: Collaborative Research: Developing A Physical-Channel Based Lightweight Authentication System for Wireless Body Area Networks”, **National Science Foundation**, *Division of Electrical, Communications and Cyber Systems*, ECCS-14-08114, with Professor Honggang Wang of U Mass Dartmouth and Professor Shucheng Yu of Stevens Institute of Technology. Total \$424,596, personal share \$148,416, Sept. 2014 - Aug. 2019
- [G7] **Sole PI**, “CAREER: Building Secure Wireless Communication Systems via Physical Layer Resources”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-13-18980 (formerly CCF-10-54338), \$400,000, May 2011 - Apr. 2018
- [G6] **PI**, “P-SpARC: A Framework for Pervasive-Spectrum Aggregating Radio with Cognition”, **Qatar National Research Fund**, *National Priorities Research Program*, NPRP 6-1326-2-532, \$118,150, Nov. 2013 - Nov. 2016
- [G5] **PI**, “Information Theory Enabled Secure Wireless Networking: Scaling Laws, Network Control, and Implementation”, **Qatar National Research Fund**, *National Priorities Research Program*, NPRP 5-559-2-227, \$86,831, May 2013 - May 2016
- [G4] **PI**, “CIF: Small: Collaborative Research: Interference Management for Visible Light Communications via Poisson Model”, **National Science Foundation**, *Division of Computer and Communication Foundations*, CCF-12-18541, with Professor Yingbin Liang of Syracuse University. Total \$454,820, personal share, \$224,957, Sept. 2012 - Aug. 2016
- [G3] **PI**, “TC: Small: Collaborative Research: Exploiting Network Dynamics for Secret Key Generation”, **National Science Foundation**, *Division of Computer and Network Systems*, CNS-13-21223 (formerly CNS-11-16534), with Professor Yingbin Liang and Professor Wenliang Du of Syracuse University. Total \$498,212, personal share \$198,128, Sept. 2011 - Aug. 2015
- [G2] **PI**, “ATD: Collaborative Research: Mathematical Challenges in Distributed Quickest Detection”, **National Science Foundation**, *Division of Mathematical Sciences*, DMS-12-65663 (formerly DMS-11-18822), with Professor Erhan Bayraktar of U Michigan and Professor H. Vincent Poor of Princeton University. Total \$814,453, personal share \$190,748, Aug. 2011 - July 2015
- [G1] **PI**, “Robust Wireless Networking for Aircraft Anomaly Monitoring”, **NASA**, with co-PIs Guoliang Huang and Jingxian Wu, \$20,000, Sept. 2011 - Aug. 2012

TEACHING

- EEC256: Introduction to Reinforcement Learning (Graduate)
Spring 2025, enrollment 32, rating **4.76/5**
Spring 2023: enrollment 33, rating **4.64/5**
- EEC165: Statistical and Digital Communications (Undergraduate)
Winter 2022: enrollment 10, rating **4.86/5**
- EEC 289A: An Introduction to Reinforcement Learning (Graduate)
Spring 2021: enrollment 17, rating **4.92/5**
Winter 2020: enrollment 38, rating **4.63/5**
- EEC 161: Probabilistic Analysis (Undergraduate)
Spring 2024: enrollment 166, rating **3.37/5**
Fall 2022: enrollment 75, rating **4.25/5**
Spring 2022: enrollment 101, rating **4.33/5**
Spring 2021: enrollment 131, rating **4.35/5**
Fall 2019: enrollment 60, rating **4.38/5**
Fall 2018: enrollment 48, rating **4.83/5**
Spring 2018: enrollment 130, rating **4.64/5**

- EEC 266: Information Theory and Coding (Graduate)
 - Fall 2023: enrollment 23, rating **5/5**
 - Fall 2021: enrollment 14, rating **4.78/5**
 - Fall 2019: enrollment 20, rating **4.46/5**
 - Fall 2018: enrollment 21, rating **4.75/5**
 - Fall 2017: enrollment 11, rating **4.67/5**
- EEC 264: Estimation and Detection of Signals in Noise (Graduate)
 - Winter 2021: enrollment 8, rating **4.86/5**
 - Winter 2019: enrollment 8, rating **5/5**
- EEC150A: Signals and Systems I (Undergraduate)
 - Winter 2018: enrollment 78, rating **4.38/5**
 - Spring 2017: enrollment 69, rating **4.73/5**
- EEC269A: Error Correcting Codes I (Graduate)
 - Winter 2017: enrollment 8, rating **4.5/5**
- ECE504: Analysis of Deterministic Signals and Systems (Graduate)
 - Fall 2014: enrollment 36, rating **4.88/5**
- ECE 5311: Information Theory and Coding (Graduate)
 - Spring 2016: enrollment 25, rating **4.78/5**
 - Spring 2014: enrollment 17, rating **4.64/5**
- ECE 3311: Principles of Communication Systems (Undergraduate)
 - B-term 2015-2016: enrollment 31, rating **4.43/5**
 - B-term 2014-2015: enrollment 30, rating **4.65/5**
 - B-term 2013-2014: enrollment 27, rating **4.48/5**
- ECE 539N: Network Information Theory and Security (Graduate)
 - Spring 2015: enrollment 12, rating **4.89/5**
 - Spring 2013: enrollment 6, rating **4.6/5**
- SYEN 3314: Probability Theory and Random Signals (Undergraduate)
 - Fall 2011: enrollment 34, rating **4.58/5**
 - Spring 2011: enrollment 10, rating **4.63/5**
 - Fall 2010: enrollment 30, rating **4.25/5**
 - Fall 2009: enrollment 14, rating **4.6/5**
- SYEN 3354: Digital and Analog Communications (Undergraduate)
 - Fall 2011: enrollment 5, rating **4.75/5**
 - Fall 2010: enrollment 6, rating **4.94/5**
- SYEN 4358/5358: Cellular and Wireless Communications (Undergraduate/Graduate),
 - Spring 2012: enrollment 6, rating **4.67/5**
 - Spring 2011: enrollment 9, rating **5/5**
 - Spring 2010: enrollment 7, rating **4.25/5**
- SYEN 7399: Advanced Wireless Communications (Graduate)
 - Spring 2011: enrollment 2, rating **5/5**
- SYEN 7399: Information Theory (Graduate)
 - Spring 2012: enrollment 5, rating **5/5**

PUBLICATIONS

Book:

- B1. F. Li, **L. Lai** and S. Cui, “Machine Learning Algorithms: Adversarial Robustness in Signal Processing”, Springer Nature, 2023.

Book Chapters:

- BC7. S. Zou, Y. Liang, **L. Lai**, H. V. Poor and S. Shamai (Shitz), “Broadcast Approach to Fading Channel under Secrecy Constraints.” In Information Theoretic Perspectives on 5G Systems and Beyond, S. Shamai (Shitz), et al., Eds. (Cambridge University Press, 2022), pp. 653- 682. (**Invited**)
- BC6. W. Zhao and **L. Lai**, “Distributed Statistical Inference with Compressed Data.” In Information-Theoretic Methods in Data Science, M. Rodrigues, et al. Eds. (Cambridge University Press, 2021), pp. 425-454. (**Invited**)
- BC5. Y. Xin and **L. Lai**, “Sequential Methods for Spectrum Sensing.” In Handbook of Cognitive Radio, Wei Zhang Eds. (Springer, 2018), pp. 1- 38. (**Invited**)
- BC4. W. Tu and **L. Lai**, “Secret Key Generation Under Active Attacks.” In From Internet of Things to Smart Cities: Enabling Technologies, H. Sun, et al., Eds. (CRC Press, Taylor & Francis Group, 2017), pp. 227- 256. (**Invited**)
- BC3. H. Zhang, Y. Liang, **L. Lai** and S. Shamai (Shitz), “Multiple Secret Key Generation: Information Theoretic Models and Capacity Regions.” In Information Theoretic Security and Privacy of Information Systems, R. Schaefer, et al., Eds. (Cambridge University Press, USA, 2017), pp. 333- 361. (**Invited**)
- BC2. **L. Lai**, Y. Liang, H. Vincent Poor and W. Du, “Key Generation in Wireless Networks.” In Physical Layer Security in Wireless Communications, Sean Zhou, et al., Eds. (Auerbach Publications, CRC Press, Boca Raton, FL, 2013), pp. 47- 68. (**Invited**)
- BC1. **L. Lai**, H. El Gamal and H. Vincent Poor, “Message Authentication: Information Theoretic Bounds.” Chapter 14 in Securing Wireless Communications at the Physical Layer, Ruoheng Liu and Wade Trappe, Eds. (Springer-Verlag: New York, 2010), pp. 335 - 377. (**Invited**)

Published/Accepted Journal Papers:

- J83. Z. Lu, G. Liu, **L. Lai** and W. Xu , “Camouflage Adversarial Attacks on Multi-agent Reinforcement Learning Systems,” *IEEE Transactions on Signal Processing*, vol. 74, pp. 589-604, 2026.
- J82. W. Wang, V. Huynh, C. Feres, **L. Lai** and Z. Ding , “Byzantine Attacks in Over-the-Air Cooperative Sensing Networks: Analysis and Defense,” *IEEE Transactions on Signal Processing*, vol. 74, pp. 75-87, 2026.
- J81. M. Cho, W. Xu, Z. Lu and **L. Lai**, “Hypothesis Testing for Subset Identification: A Linear Measurement Scheme,” *IEEE Transactions on Signal Processing*, vol. 73, pp. 4605 - 4621, 2025.
- J80. Y. Jin, K. Balasubramanian and **L. Lai**, “In-context Learning for Mixture of Linear Regressions: Existence, Generalization and Training Dynamics,” *Transactions on Machine Learning Research*. 2025.
- J79. C. Yang, M. Lyu, G. Liu and **L. Lai**, “Human Feedback Attack on Online RLHF: Attack and Robust Defense,” *IEEE Transactions on Signal Processing*, vol. 73, pp. 3886 - 3901, 2025.
- J78. X. Ni and **L. Lai**, “Risk-Sensitive Reinforcement Learning with ϕ -Divergence-Risk,” *IEEE Transactions on Information Theory*, vol. 71, no. 8, pp. 6393 - 6409, Aug. 2025.
- J77. P. Zhao and **L. Lai**, “Minimax Optimal Q Learning with Nearest Neighbors,” *IEEE Transactions on Information Theory*, vol. 71, no. 2, pp. 1300-1322, Feb. 2025.
- J76. M. Huang, X. Chen, K. Ji, S. Ma and **L. Lai**, “Efficiently Escaping Saddle Points in Bilevel Optimization,” *Journal on Machine Learning Research*. Jan. 2025.
- J75. C. Yang, G. Liu and **L. Lai**, “Stochastic Bandits with Non-stationary Rewards: Reward Attack and Defense,” *IEEE Transactions on Signal Processing*, vol. 72, pp. 5007-5020, Oct. 2024.

- J74. M. Huang, S. Ma and **L. Lai**, “On the Convergence of Projected Alternative Maximization for Equitable and Optimal Transport,” *Journal on Machine Learning Research*. Oct. 2024.
- J73. G. Liu, Z. Zhou, H. Liu and **L. Lai**, “Efficient Action Robust Reinforcement Learning with Probabilistic Policy Execution Uncertainty,” *Transactions on Machine Learning Research*, Aug. 2024.
- J72. Y. Jin and **L. Lai**, “Fairness-aware Regression Robust to Adversarial Attacks,” *IEEE Transactions on Signal Processing*, vol. 71, pp. 4092 - 4105, Nov. 2023.
- J71. X. Ma, **L. Lai** and S. Cui, “Bayesian Two-stage Sequential Change Diagnosis Via Sensor Arrays,” *IEEE Transactions on Information Theory*, vol. 69, no. 11, pp. 7276 - 7294, Nov. 2023.
- J70. G. Liu and **L. Lai**, “Action Poisoning Attacks on Linear Contextual Bandits,” *Transactions on Machine Learning Research*, Mar. 2023.
- J69. P. Zhao and **L. Lai**, “Analysis of KNN Density Estimation,” *IEEE Transactions on Information Theory*, vol. 68, no. 12, pp. 7971 - 7995, Dec. 2022.
- J68. Y. Jin and **L. Lai**, “Optimal Accuracy-Privacy Trade-off of Inference as Service,” *IEEE Transactions on Signal Processing*, vol. 70, pp. 4031 - 4046, July 2022.
- J67. X. Ma, **L. Lai** and S. Cui, “Two-Stage Bayesian Sequential Change Diagnosis,” *IEEE Transactions on Signal Processing*, vol. 69, pp. 6131- 6147, 2021.
- J66. F. Li, **L. Lai** and S. Cui, “Optimal Feature Manipulation Attacks Against Linear Regression,” *IEEE Transactions on Signal Processing*, vol. 69, pp. 5580- 5594, 2021.
- J65. F. Li, **L. Lai** and S. Cui, “On the Adversarial Robustness of LASSO Based Feature Selection,” *IEEE Transactions on Signal Processing*, vol. 69, pp. 5555- 5567, 2021.
- J64. M. Huang, S. Ma and **L. Lai**, “Robust Low-rank Matrix Completion via an Alternating Manifold Proximal Gradient Continuation Method,” *IEEE Transactions on Signal Processing*, vol. 69, pp. 2639 - 2652, 2021.
- J63. M. Cho, **L. Lai** and W. Xu, “Distributed Dual Coordinate Ascent in General Tree Networks and Communication Network Effect on Synchronous Machine Learning,” *IEEE JSAC Series on Machine Learning for Communications and Networks*, vol. 39, no.7, pp. 2105 - 2119, July 2021.
- J62. P. Zhao and **L. Lai**, “Minimax Rate Optimal Adaptive Nearest Neighbor Classification and Regression,” *IEEE Transactions on Information Theory*, vol. 67, no. 5, pp. 3155- 3182, May 2021.
- J61. Y. Jin and **L. Lai**, “On the Adversarial Robustness of Hypothesis Testing,” *IEEE Transactions on Signal Processing*, vol. 69, pp. 515-530, 2021.
- J60. X. Cao and **L. Lai**, “Distributed Approximate Newton’s Method Robust to Byzantine Attackers,” *IEEE Transactions on Signal Processing*, vol. 68, pp. 6011-6025, 2020.
- J59. G. Liu and **L. Lai**, “Action-manipulation Attacks on Stochastic Bandits: Attacks and Defense,” *IEEE Transactions on Signal Processing*, vol. 68, pp. 5152-5165, 2020.
- J58. P. Zhao and **L. Lai**, “Minimax Optimal Estimation of KL Divergence for Continuous Distributions,” *IEEE Transactions on Information Theory*, vol. 66, no. 12, pp. 7787-7811, Dec. 2020.
- J57. **L. Lai** and E. Bayraktar, “On the Adversarial Robustness of Robust Estimators,” *IEEE Transactions on Information Theory*, vol. 66, no. 8, pp. 5097-5109, Aug. 2020.
- J56. P. Zhao and **L. Lai**, “Analysis of KNN Information Estimators for Smooth Distributions,” *IEEE Transactions on Information Theory*, vol. 66, no. 6, pp. 3798-3826, June 2020.
- J55. F. Li, **L. Lai** and S. Cui, “On the Adversarial Robustness of Subspace Learning,” *IEEE Transactions on Signal Processing*, vol. 68, pp. 1470-1483, Mar. 2020.
- J54. X. Cao and **L. Lai**, “Distributed Gradient Descent Algorithm Robust to an Arbitrary Number of Byzantine Attackers,” *IEEE Transactions on Signal Processing*, vol. 67, no. 22, pp. 5850-5864, Nov. 2019.
- J53. W. Tu and **L. Lai**, “On Function Computation with Privacy and Secrecy Constraints,” *IEEE Transactions on Information Theory*, vol. 65, no. 10, pp. 6716- 6733, Oct. 2019.

- J52. J. Geng, B. Zhang, L. Huie and **L. Lai**, “Online Change-Point Detection of Linear Regression Models,” *IEEE Transactions on Signal Processing*, vol. 67, no. 12, pp. 3316–3329, June 2019.
- J51. W. Zhao and **L. Lai**, “Distributed Testing With Cascaded Encoders,” *IEEE Transactions on Information Theory*, vol. 64, no. 11, pp. 7339–7348, Nov. 2018.
- J50. W. Tu and **L. Lai**, “Keyless Authentication and Authenticated Capacity,” *IEEE Transactions on Information Theory*, vol. 64, no. 5, pp. 3696–3714, May 2018.
- J49. G. Fellouris, E. Bayraktar and **L. Lai**, “Efficient Byzantine Sequential Change Detection,” *IEEE Transactions on Information Theory*, vol. 64, no. 5, pp. 3346–3360, May 2018.
- J48. S. Zou, Y. Liang, **L. Lai**, H. V. Poor and S. Shamai (Shitz), “Degraded Broadcast Channel with Secrecy Outside a Bounded Range,” *IEEE Transactions on Information Theory*, vol. 64, no. 3, pp. 2104–2120, Mar. 2018.
- J47. C. Tsinos, F. Foukalas, T. Khattab and **L. Lai**, “On Channel Selection for Carrier Aggregation Systems,” *IEEE Transactions on Communications*, vol. 66, no. 2, pp. 808–818, Feb. 2018.
- J46. S.-W. Ho, A. A. Saed, **L. Lai** and C. W. Sung, “Coding and Bounds for Channel Estimation in Visible Light Communications and Positioning,” *IEEE Journal on Selected Areas in Communications*, vol. 36, no. 1, pp. 34–44, Jan. 2018.
- J45. Ain-ul-Aisha, **L. Lai**, Y. Liang and S. Shamai (Shitz), “Sum-Rate Capacity of Poisson MIMO Multiple-Access Channels,” *IEEE Transactions on Communications*, vol. 65, no. 11, pp. 4765–4776, Nov. 2017.
- J44. Ain-ul-Aisha, **L. Lai**, Y. Liang and S. Shamai (Shitz), “On the Sum-Rate Capacity of Poisson MISO Multiple Access Channels,” *IEEE Transactions on Information Theory*, vol. 63, no. 10, pp. 6457–6473, Oct. 2017.
- J43. H. Zhang, Y. Liang, **L. Lai** and S. Shamai (Shitz), “Multi-Key Generation over a Cellular Model with a Helper,” *IEEE Transactions on Information Theory*, vol. 63, no. 6, pp. 3804–3822, June 2017.
- J42. M. El Gamal and **L. Lai**, “On Rate Requirements for Achieving the Centralized Performance in Distributed Estimation,” *IEEE Transactions on Signal Processing*, vol. 65, no. 8, pp. 2020–2032, Apr. 2017.
- J41. W. Tu, M. Goldenbaum, **L. Lai** and H. V. Poor, “On Simultaneously Generating Multiple Keys in Joint Source-Channel Model,” *IEEE Transactions on Information Forensics and Security*, vol. 12, no. 2, pp. 298–308, Feb. 2017.
- J40. J. Geng, W. Xu and **L. Lai**, “Quickest Sequential Muti-Band Spectrum Sensing with Mixed Observations,” *IEEE Transactions on Signal Processing*, vol. 64, no. 22, pp. 5861–5874, Nov. 2016.
- J39. Y. Huang, S. Zhou, Z. Shi and **L. Lai**, “Channel Frequency Response Based Secret Key Generation in Underwater Acoustic Systems,” *IEEE Transactions on Wireless Communications*, vol. 15, no. 9, pp. 5875–5888, Sept. 2016.
- J38. W. Zhao and **L. Lai**, “Distributed Detection with Vector Quantizer,” *IEEE Transactions on Signal and Information Processing over Networks*, vol. 2, no. 2, pp. 105–119, June 2016.
- J37. Ain-ul-Aisha, **L. Lai** and Y. Liang, “Optimal Power Allocation for Poisson Channels with Time-Varying Background Light,” *IEEE Transactions on Communications*, vol. 63, no. 11, pp. 4327–4338, Nov. 2015.
- J36. S. Zou, Y. Liang, **L. Lai**, H. Vincent Poor and S. Shamai (Shitz), “Broadcast Networks with Layered Decoding and Layered Secrecy: Theory and Applications,” *Proceeding of IEEE*, vol. 103, no. 10, pp. 1841–1856, Oct. 2015.
- J35. **L. Lai** and S.-W. Ho, “Key Generation Algorithms for Pairwise Independent Networks Based on Graphical Models,” *IEEE Transactions on Information Theory*, vol. 61, no. 9, pp. 4828–4837, Sept. 2015.
- J34. S. Zou, Y. Liang, **L. Lai** and S. Shamai (Shitz), “An Information Theoretic Approach to Secret Sharing,” *IEEE Transactions on Information Theory*, vol. 61, no. 6, pp. 3121–3136, June 2015.

- J33. B. Zhang, J. Geng and **L. Lai**, “Multiple Change-Points Estimation in Linear Regression Models via Sparse Group Lasso,” *IEEE Transactions on Signal Processing*, vol. 63, no. 9, pp. 2209-2224, May 2015.
- J32. E. Bayraktar and **L. Lai**, “Byzantine Fault Tolerant Distributed Quickest Change Detection,” *SIAM Journal on Control and Optimization*, vol. 53, no. 2, pp. 575-591, Mar. 2015.
- J31. **L. Lai**, Y. Liang and S. Shamai (Shitz), “On the Capacity Bounds for Poisson Interference Channels,” *IEEE Transactions on Information Theory*, vol. 61, no. 1, pp. 223-238, Jan. 2015.
- J30. H. Zhang, **L. Lai**, Y. Liang and H. Wang, “The Capacity Region of the Source-Type Model for Secret Key and Private Key Generation,” *IEEE Transactions on Information Theory*, vol. 60, no. 10, pp.6389-6398, Oct. 2014.
- J29. J. Geng, E. Bayraktar and **L. Lai**, “Bayesian Quickest Change Point Detection with Sampling Right Constraints,” *IEEE Transactions on Information Theory*, vol. 60, no. 10, pp.6474-6490, Oct. 2014.
- J28. R. Caromi, S. Mohan and **L. Lai**, “Optimal Sequential Channel Estimation and Probing for Multiband Cognitive Radio Systems,” *IEEE Transactions on Communications*, vol. 62, no. 8, pp. 2696-2708, Aug. 2014.
- J27. H. Zhou, L. Huie and **L. Lai**, “Secret Key Generation in the Two-Way Relay Channel with Active Attackers,” *IEEE Transactions on Information Forensics and Security*, vol. 9, no. 3, pp. 476-488, Mar. 2014.
- J26. Y. Xin, H. Zhang and **L. Lai**, “A Low-Complexity Sequential Spectrum Sensing Algorithm for Cognitive Radio,” *IEEE Journal on Selected Areas in Communications: Cognitive Radio Series*, vol. 32, no. 3, pp. 387-399, Mar. 2014.
- J25. H. Li, J. Song, C. Chen, **L. Lai** and R. Qiu, “Behavior Propagation in Cognitive Radio Networks: A Social Network Approach,” *IEEE Transactions on Wireless Communications*, vol 13, no. 2, pp. 646-657, Feb. 2014.
- J24. Y. Liang, **L. Lai**, H. Vincent Poor and S. Shamai (Shitz), “A Broadcast Approach for Fading Gaussian Wiretap Channels,” *IEEE Transactions on Information Theory*, vol. 60, no. 2, pp. 842-858, Feb. 2014.
- J23. J. Geng and **L. Lai**, “Non-Bayesian Quickest Change Detection with Stochastic Sample Right Constraints,” *IEEE Transactions on Signal Processing*, vol. 61, no. 20, pp. 5090-5102, Oct. 2013.
- J22. R. Caromi, Y. Xin and **L. Lai**, “Fast Multi-band Spectrum Scanning for Cognitive Radio Systems,” *IEEE Transactions on Communications*, vol. 61, no. 1, pp. 63-75, Jan. 2013.
- J21. H. Li, **L. Lai** and R. Qiu, “Scheduling of Wireless Metering for Power Market Pricing in Smart Grid,” *IEEE Transactions on Smart Grid*, vol. 3, no. 4, pp. 1611-1620, Dec. 2012.
- J20. **L. Lai**, Y. Liang and W. Du, “Cooperative Key Generation in Wireless Networks,” *IEEE Journal on Selected Areas in Communications, Special Issue on Theories and Methods for Advanced Wireless Relays*, vol. 30, no. 8, pp. 1578 - 1588, Sept. 2012.
- J19. H. Li, S. Gong, **L. Lai**, H. Zhu, R. C. Qiu and D. Yang, “Efficient and Secure Wireless Communications for Advanced Metering Infrastructure in Smart Grids,” *IEEE Transactions on Smart Grid*, vol. 3, no. 3, pp. 1540 - 1551, Sept. 2012.
- J18. H. Li, **L. Lai**, H. Vincent Poor, “Multicast Routing for Decentralized Control of Cyber Physical Systems with an Application in Smart Grid,” *IEEE Journal on Selected Areas in Communications: Smart Grid Communications Series*, vol. 30, no. 6, pp. 1097-1107, July 2012.
- J17. **L. Lai**, Y. Liang and H. Vincent Poor, “A Unified Framework for Key Agreement over Wireless Fading Channels,” *IEEE Transactions on Information Forensics and Security*, vol 7, no. 2, pp. 480 - 490, Apr. 2012.
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- C149. Y. Liang, Y. Liang, **L. Lai** and N. Shroff, “Discrete Diffusion Models: Novel Analysis and New Sampler Guarantees,” *Conference on Neural Information Processing Systems (NeurIPS)*, Dec. 2025.
- C148. Y. Liang, R. Huang, **L. Lai**, N. Shroff and Y. Liang “Absorb and Converge: Provable Convergence Guarantee for Absorbing Discrete Diffusion Models,” *Conference on Neural Information Processing Systems (NeurIPS)*, Dec. 2025.

- C147. M. Cho, S. Ali, M. Asadinia, W. Xu, **L. Lai**, “Distributed Dual Coordinate Ascent in a Ring Network for Distributed Machine Learning Process,” *Asilomar Conference on Signals, Systems, and Computers* (Asilomar), Oct. 2025.
- C146. M. Lyu, C. Yang, G. Liu and **L. Lai**, “Adversarial Post-Action Attacks on Dueling Bandits,” *Asilomar Conference on Signals, Systems, and Computers* (Asilomar), Oct. 2025.
- C145. H. Liang, K. Balasubramanian and **L. Lai**, “Transformers Handle Endogeneity in In-Context Linear Regression,” *International Conference on Learning Representations* (ICLR), April 2025.
- C144. P. Zhao, **L. Lai**, L. Shen, Q. Li, J. Wu and Z. Liu, “A Huber Loss Minimization Approach to Mean Estimation under User-level Differential Privacy,” *Conference on Neural Information Processing Systems* (NeurIPS), Dec. 2024.
- C143. X. Ni and **L. Lai**, “Robust Risk-Sensitive Reinforcement Learning with Conditional Value-at-Risk,” *IEEE Information Theory Workshop* (ITW), November 2024.
- C142. X. Ni, G. Liu and **L. Lai**, “Risk-Sensitive Reward-Free Reinforcement Learning with CVaR,” *International Conference on Machine Learning* (ICML), July 2024.
- C141. Z. Lu, G. Liu, **L. Lai**, and W. Xu, “Camouflage Adversarial Attacks on Multiple Agent Systems”, *IEEE Symposium on Information Theory* (ISIT), July 2024.
- C140. M. Cho, M. Chikkam, W. Xu and **L. Lai**, “Tree Network Design for Faster Distributed Machine Learning Process With Distributed Dual Coordinate Ascent”, *IEEE International Conference on Acoustics, Speech, and Signal Processing* (ICASSP), April 2024.
- C139. Z. Lu, G. Liu, **L. Lai**, and W. Xu, “Optimal Cost Constrained Adversarial Attacks for Multiple Agent Systems”, *Conference on Information Science and Systems* (CISS), March 2024.
- C138. G. Liu, **L. Lai**, “Efficient Adversarial Attacks on Online Multi-agent Reinforcement Learning,” *Conference on Neural Information Processing Systems* (NeurIPS), Dec. 2023.
- C137. C. Yang, G. Liu and **L. Lai**, “Reward Attack on Stochastic Bandits with Non-stationary Rewards,” *Asilomar Conference on Signals, Systems, and Computers* (Asilomar), Oct. 2023.
- C136. M. Cho, **L. Lai**, W. Xu, “Distributed Dual Coordinate Ascent with Imbalanced Data on a General Tree Network”, *IEEE International Workshop on Machine Learning for Signal Processing* (MLSP), Sept. 2023.
- C135. P. Zhao and **L. Lai**, “Entropy Rate Estimation for Markov Chains with Continuous Distributions,” *IEEE Symposium on Information Theory* (ISIT), June 2023.
- C134. Y. Jin and **L. Lai**, “Adversarially Robust Fairness-aware Regression”, *IEEE International Conference on Acoustics, Speech, and Signal Processing* (ICASSP), June 2023.
- C133. X. Ni and **L. Lai**, “Risk-Sensitive Reinforcement Learning Via Entropic-VaR Optimization,” *Asilomar Conference on Signals, Systems, and Computers* (Asilomar), Pacific Grove, CA, Oct. 2022.
- C132. X. Ni and **L. Lai**, “Policy Gradient Based Entropic-VaR Optimization in Risk-Sensitive Reinforcement Learning,” *Annual Allerton Conference on Communication, Control, and Computing* (Allerton), Montecello, IL, Sept. 2022.
- C131. Y. Jin and **L. Lai**, “Privacy Preserving Inference With Fair Representations”, *IEEE International Conference on Acoustics, Speech, and Signal Processing* (ICASSP), May 2022.
- C130. G. Liu, **L. Lai**, “Provably Efficient Black-Box Action Poisoning Attacks Against Reinforcement Learning,” *Conference on Neural Information Processing Systems* (NeurIPS), Dec. 2021.
- C129. X. Ma, **L. Lai** and S. Cui, “A Deep Q-network Based Approach For Online Bayesian Change Point Detection,” *IEEE International Workshop on Machine Learning for Signal Processing* (MLSP), Oct. 2021.
- C128. X. Ma, **L. Lai** and S. Cui, “Bayesian Two-stage Sequential Change Diagnosis via Multi-sensor Array,” *IEEE International Workshop on Machine Learning for Signal Processing* (MLSP), Oct. 2021.

- C127. M. Huang, S. Ma and **L. Lai**, “A Riemannian Block Coordinate Descent Method for Computing the Projection Robust Wasserstein Distance,” *International Conference on Machine Learning (ICML)*, July 2021.
- C126. M. Huang, S. Ma and **L. Lai**, “Projection Robust Wasserstein Barycenter,” *International Conference on Machine Learning (ICML)*, July 2021.
- C125. P. Zhao and **L. Lai**, “On the Convergence Rates of KNN Density Estimation,” *IEEE Symposium on Information Theory (ISIT)*, July 2021.
- C124. Y. Li, F. Li, **L. Lai** and J. Wu, “On the Adversarial Robustness of Principal Component Analysis”, *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, June 2021.
- C123. Y. Jin and **L. Lai**, “Privacy-Accuracy Trade-off of Inference as Service”, *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, June 2021.
- C122. P. Zhao and **L. Lai**, “Efficient Classification with Adaptive KNN,” *AAAI Conference on Artificial Intelligence (AAAI)*, Feb. 2021.
- C121. F. Li, **L. Lai** and S. Cui, “On the Adversarial Robustness of Linear Regression,” *IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, Sept. 2020.
- C120. F. Li, **L. Lai** and S. Cui, “On the Adversarial Robustness of Feature Selection Using LASSO,” *IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, Sept. 2020.
- C119. X. Ma, **L. Lai** and S. Cui, “Optimal Two-Stage Bayesian Sequential Change Diagnosis,” *IEEE Symposium on Information Theory (ISIT)*, June 2020.
- C118. P. Zhao and **L. Lai**, “Analysis of K Nearest Neighbor KL Divergence Estimation for Continuous Distributions,” *IEEE Symposium on Information Theory (ISIT)*, June 2020.
- C117. G. Liu, **L. Lai**, “Action-manipulation Attacks on Stochastic Bandits,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, May. 2020.
- C116. Y. Jin and **L. Lai**, “Adversarially Robust Hypothesis Testing,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2019.
- C115. P. Zhao and **L. Lai**, “Minimax Regression via Adaptive Nearest Neighbor,” *IEEE Symposium on Information Theory (ISIT)*, Paris, France, July 2019.
- C114. W. Tu and **L. Lai**, “Secret Key and Private Key Capacities Over an Unauthenticated Public Channel,” *IEEE Conference on Communications and Network Security (CNS)*, Workshop on Physical-layer Methods for Security and Privacy in 5G and the IoT, Washington DC, June 2019. (**Invited**)
- C113. F. Li, **L. Lai** and S. Cui, “On the Adversarial Robustness of Subspace Learning,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Brighton, UK, May. 2019.
- C112. M. Cho, **L. Lai** and W. Xu, “Generalized Distributed Dual Coordinate Ascent in a Tree Network for Machine Learning,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Brighton, UK, May. 2019.
- C111. P. Zhao and **L. Lai**, “Nonparametric Direct Entropy Difference Estimation,” *IEEE Information Theory Workshop (ITW)*, Guangzhou, China, Nov. 2018.
- C110. P. Zhao and **L. Lai**, “Analysis of KNN Information Estimators for Smooth Distributions,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Oct. 2018.
- C109. J. Geng and **L. Lai**, “Quick Best Action Identification in Linear Bandit Problems,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Oct. 2018.
- C108. W. Tu and **L. Lai**, “On Private Lossy Function Computation,” *IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, Kalamata, Greece, June 2018. (**Invited**)
- C107. A. Saed, S.-W. Ho, **L. Lai** and C. W. Sung, “Combinational Code for Channel Estimation in Visible Light Communications and Positioning,” *IEEE International Conference on Communications (ICC)*, Kansas City, MO, May 2018.

- C106. J. Geng and **L. Lai**, “Quickest Change-Point Detection over Multiple Data Streams via Sequential Observations,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Calgary, Alberta, Canada, Apr. 2018.
- C105. X. Cao and **L. Lai**, “Robust Distributed Gradient Descent with Arbitrary Number of Byzantine Attackers,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Calgary, Alberta, Canada, Apr. 2018.
- C104. B. Zhang, J. Geng, W. Xu and **L. Lai**, “Communication Efficient Distributed Learning with Feature Partitioned Data,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2018. **(Invited)**
- C103. W. Tu and **L. Lai**, “Function Computation with Privacy Constraints,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Oct.- Nov. 2017.
- C102. W. Zhao and **L. Lai**, “Distributed Identity Testing with Zero-Rate Compression,” *IEEE Symposium on Information Theory (ISIT)*, Aachen, Germany, June 2017.
- C101. M. El Gamal and **L. Lai**, “On Randomized Distributed Coordinate Descent with Quantized Updates,” *Conference on Information Sciences and Systems (CISS)*, Baltimore, MD, Mar. 2017.
- C100. M. Rodrigues, N. Deligiannis, **L. Lai** and Y. Eldar, “Rate-distortion trade-offs in acquisition of signal parameters,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, New Orleans, LA, Mar. 2017. **(Invited)**
- C99. J. Geng, W. Xu and **L. Lai**, “Identifying Correlated Components in High-Dimensional Multivariate Gaussian Models,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, New Orleans, LA, Mar. 2017. **(Invited)**
- C98. Ain-ul-Aisha, Y. Liang, **L. Lai** and S. Shamai (Shitz), “On the Sum-Rate Capacity of Poisson MISO Multiple Access Channels,” *IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, China, Dec. 2016. **(Invited)**
- C97. A. M. Fayed, T. Khattab, and **L. Lai**, “Secret Communication on Z-Channel with Cooperative Receivers,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2016.
- C96. W. Tu and **L. Lai**, “Keyless Authentication over Noisy Channel,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2016. **(Invited)**
- C95. B. Jiang and **L. Lai**, “Distributed Quickest Detection with Optional Observations at the Fusion Center,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2016. **(Invited)**
- C94. A. M. Fayed, T. Khattab, and **L. Lai**, “On Secure Communication Over the Z-Channel,” *IEEE Conference on Communications and Network Security (CNS)*, Workshop on Physical-Layer Methods for Wireless Security, Philadelphia, PA, Oct. 2016.
- C93. W. Tu, M. Goldenbaum, **L. Lai** and H. V. Poor, “Multiple Key Generation with Restricted Public Discussion Structure,” *IEEE Conference on Communications and Network Security (CNS)*, Workshop on Physical-Layer Methods for Wireless Security, Philadelphia, PA, Oct. 2016. **(Invited)**
- C92. S. Zou, Y. Liang, **L. Lai**, H. V. Poor and S. Shamai (Shitz), “K-User Degraded Broadcast Channel with Secrecy Outside a Bounded Range,” *IEEE Information Theory Workshop (ITW)*, Cambridge, UK, Sept. 2016.
- C91. W. Tu, M. Goldenbaum, **L. Lai** and H. V. Poor, “Simultaneously Generating Multiple Keys over a Cascade of a Noiseless Channel and a Wiretap Channel,” *IEEE Information Theory Workshop (ITW)*, Cambridge, UK, Sept. 2016.
- C90. Ain-ul-Aisha, Y. Liang, **L. Lai** and S. Shamai (Shitz), “On the Sum-Rate Capacity of Non-Symmetric Poisson Multiple Access Channel,” *IEEE Symposium on Information Theory (ISIT)*, Barcelona, Spain, July 2016.

- C89. J. Geng and **L. Lai**, “Bayesian Quickest Detection with Unknown Post-Change Parameter,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China, Mar. 2016.
- C88. B. Zhang, W. Xu, J.-F. Cai and **L. Lai**, “Precise Phase Transition of Total Variation Minimization,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China, Mar. 2016.
- C87. J. Geng, B. Zhang, L. Huie and **L. Lai**, “Online Change Detection of Linear Regression Models,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China, Mar. 2016.
- C86. M. El Gamal and **L. Lai**, “Are Slepian-Wolf Rates Necessary for Distributed Parameter Estimation?,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Oct. 2015.
- C85. B. Zhang, J. Geng and **L. Lai**, “Change-Point Estimation in High Dimensional Linear Regression Models via Sparse Group Lasso,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Oct. 2015. (**Invited**)
- C84. W. Zhao and **L. Lai**, “Distributed Testing Against Independence With Conferencing Encoders,” *IEEE Information Theory Workshop (ITW)*, Jeju Island, Korea, Oct. 2015.
- C83. J. Geng, W. Xu and **L. Lai**, “Detection of Correlated Components in Multivariate Gaussian Models,” *IEEE Information Theory Workshop (ITW)*, Jeju Island, Korea, Oct. 2015.
- C82. J. Geng, B. Zhang, L. Huie and **L. Lai**, “Online Detection of Changes in Sparse Linear Regression Models,” *International Workshop in Sequential Methodologies (IWSM)*, New York City, NY, June 2015.
- C81. W. Zhao and **L. Lai**, “Distributed Testing with Zero-rate Compression,” *IEEE Symposium on Information Theory (ISIT)*, Hong Kong, China, June. 2015.
- C80. W. Tu and **L. Lai**, “On the Simulatability Condition in Key Generation Over a Non-authenticated Public Channel,” *IEEE Symposium on Information Theory (ISIT)*, Hong Kong, China, June. 2015.
- C79. H. Zhang, Y. Liang and **L. Lai**, “Secret Key Capacity: Talk or Keep Silent?,” *IEEE Symposium on Information Theory (ISIT)*, Hong Kong, China, June. 2015.
- C78. S. Zou, Y. Liang, **L. Lai** and S. Shamai (Shitz), “Rate Splitting and Sharing for Degraded Broadcast Channel with Secrecy Outside a Bounded Range,” *IEEE Symposium on Information Theory (ISIT)*, Hong Kong, China, June. 2015.
- C77. H. Zhang, Y. Liang and **L. Lai**, “Two-key Generation for a Cellular Model with a Helper,” *IEEE Symposium on Information Theory (ISIT)*, Hong Kong, China, June. 2015.
- C76. W. Tu and **L. Lai**, “Key Generation with A Byzantine Helper,” *IEEE International Conference on Communications (ICC)*, Workshop on Wireless Physical Layer Security, London, UK, June. 2015.
- C75. S. Zou, Y. Liang, **L. Lai** and S. Shamai (Shitz), “Degraded Broadcast Channel: Secrecy Outside of a Bounded Range,” *IEEE Information Theory Workshop (ITW)*, Jerusalem, Israel, Apr. 2015.
- C74. H. Zhang, Y. Liang and **L. Lai**, “Helper-Assisted Asymmetric Two Key Generation,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2014. (**Invited**)
- C73. Y. Huang, S. Zhou, Z. Shi and **L. Lai**, “Experimental Study of Secret Key Generation in Underwater Acoustic Channels,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2014. (**Invited**)
- C72. H. Zhang, Y. Liang and **L. Lai**, “Key Capacity Region for a Cellular Source Model,” *IEEE Information Theory Workshop (ITW)*, Hobart, Tasmania, Australia, Nov. 2014. (**Invited**)
- C71. W. Zhao and **L. Lai**, “Distributed Testing Against Independence with Multiple Terminals,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Oct. 2014.

- C70. S. Zou, Y. Liang, **L. Lai** and S. Shamai (Shitz), “Layered Secure Broadcasting over Gaussian MIMO Channels and Application in Secret Sharing,” *IEEE Symposium on Information Theory (ISIT)*, Honolulu, HI, Jul. 2014.
- C69. H. Zhang, **L. Lai**, Y. Liang and H. Wang, “Secret Key-Private Key Generation over Three Terminals: Capacity Region,” *IEEE Symposium on Information Theory (ISIT)*, Honolulu, HI, Jul. 2014.
- C68. J. Geng and **L. Lai**, “Bayesian Quickest Detection with Stochastic Energy Constraint,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Florence, Italy, May 2014.
- C67. Ain-ul-Aisha, **L. Lai** and Y. Liang, “On Fading Poisson Channels with Varying Noise Levels,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2014.
- C66. W. Tu and **L. Lai**, “Generating Keys with Finite Source Observations,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2014.
- C65. J. Geng and **L. Lai**, “Bayesian Quickest Change Point Detection and Localization in Sensor Networks,” *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Austin, TX, Dec. 2013. **(Invited)**
- C64. D. Li, **L. Lai** and S. Cui, “Quickest Change Point Detection and Identification Across a Sensor Array,” *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Austin, TX, Dec. 2013.
- C63. H. Zhou, L. Huie and **L. Lai**, “Key Generation Through Two-Way Relay Channels under Active Attacks,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2013. **(Invited)**
- C62. W. Xu and **L. Lai**, “Compressed Hypothesis Testing: to Mix or Not to Mix?,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Oct. 2013.
- C61. **L. Lai**, Y. Liang and S. Shamai (Shitz), “On the Sum Capacity of Poisson Z-Interference Channels,” *IEEE International Conference on Communications in China (ICCC)*, Xi’an, China, Aug. 2013.
- C60. S.-W. Ho, **L. Lai** and A. Grant, “Source Coding with Side Information for Error Free Perfect Secrecy Systems,” *IEEE Symposium on Information Theory (ISIT)*, Istanbul, Turkey, Jul. 2013.
- C59. J. Geng, W. Xu and **L. Lai**, “Quickest Search Over Multiple Sequences with Mixed Observations,” *IEEE Symposium on Information Theory (ISIT)*, Istanbul, Turkey, Jul. 2013.
- C58. **L. Lai** and L. Huie, “Simultaneously Generating Multiple Keys in Many to One Networks,” *IEEE Symposium on Information Theory (ISIT)*, Istanbul, Turkey, Jul. 2013.
- C57. S. Zou, Y. Liang, **L. Lai** and S. Shamai (Shitz), “Layered Decoding and Secrecy over Degraded Broadcast Channels,” *IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, Darmstadt, Germany, June 2013. **(Invited)**
- C56. J. Geng and **L. Lai**, “Non-Bayesian Quickest Detection with Stochastic Sample Right Constraints,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Vancouver, Canada, May, 2013.
- C55. B. Zhang and **L. Lai**, “Optimal Strategies in Jamming Resistant Uncoordinated Frequency Hopping Systems,” *Conference on Information Sciences and Systems (CISS)*, Baltimore, MD, Mar. 2013.
- C54. H. Zhou, L. Huie and **L. Lai**, “Key Generation in Two-Way Relay Wireless Channels,” *Conference on Information Sciences and Systems (CISS)*, Baltimore, MD, Mar. 2013.
- C53. J. Geng and **L. Lai**, “Quickest Change Detection with Probabilistic Observations,” *DTRA/NSF/NGA Algorithm Workshop*, San Diego, CA, Nov. 2012. **(Invited)**
- C52. Y. Huang, **L. Lai**, H. Li, W. Chen and Z. Han, “Online Quickest Multiarmed Bandit Algorithm for Distributive Renewable Energy Resources,” *IEEE International Conference on Smart Grid Communications (Smartgridcomm)*, Tainan City, Taiwan, Nov. 2012.
- C51. R. Caromi, S. Mohan and **L. Lai**, “Sequential Good Channel Search for Multi-channel Cognitive Radio,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Nov. 2012. **(Invited)**

- C50. **L. Lai**, “Quickest Change Point Identification Across a Sensor Array,” *IEEE Military Communications Conference (Milcom)*, Orlando, FL, Oct. 2012.
- C49. J. Geng, **L. Lai** and E. Bayraktar, “Quickest Change Point Detection with Sampling Right Constraints,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2012.
- C48. **L. Lai** and S-W. Ho, “Simultaneously Generating Multiple Keys and Multi-Commodity Flow in Networks,” *IEEE Information Theory Workshop (ITW)*, Lausanne, Switzerland, Sept. 2012.
- C47. Y. Liang, **L. Lai**, H. Vincent Poor and S. Shamai (Shitz), “Broadcasting over Fading Wiretap Channels,” *IEEE Symposium on Information Theory (ISIT)*, Boston, MA, Jul. 2012.
- C46. J. Geng, H. Li and **L. Lai**, “Smart Grid System State Measurement Estimation over Wireless Channels,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2012.
- C45. R. Caromi and **L. Lai**, “Optimal Sequential Channel Estimation for Multi-channel Cognitive Radio,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2012.
- C44. J. Geng and **L. Lai**, “Optimal Sequential Detection with Stochastic Energy Constraint,” *IEEE International Conference on Mobile Ad-hoc and Sensor Networks (MSN)*, Workshop on Optimization for Green Wireless Communication Networks, Beijing, China, Dec. 2011. (**Invited**)
- C43 H. Li, Z. Han, **L. Lai**, R. Qiu, D. Yang, “Efficient and Reliable Multiple Access for Advanced Metering in Future Smart Grid,” *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Brussels, Belgium, Nov. 2011.
- C42. S-W. Ho, **L. Lai** and A. Grant, “On the Separation of Encryption and Compression in Secure Distributed Source Coding,” *IEEE Information Theory Workshop (ITW)*, Paraty, Brazil, Oct. 2011.
- C41. **L. Lai**, Y. Liang and W. Du, “PHY-Based Cooperative Key Generation in Wireless Networks,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2011. (**Invited**)
- C40. **L. Lai**, Y. Liang, W. Du and S. Shamai (Shitz), “Secret Sharing via Noisy Broadcast Channels,” *IEEE International Symposium on Information Theory (ISIT)*, Saint-Petersburg, Russia, Aug. 2011.
- C39. H. Li, **L. Lai** and S. Djouadi, “Key Establishment via Common State Information in Network Control Systems”, *American Control Conference (ACC)*, San Francisco, CA, Jun./Jul. 2011.
- C38. S. Gong, H. Li. **L. Lai** and R. Qiu, “Decoding the Nature Encoded Messages for Distributed Energy Generation in Microgrid,” *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011.
- C37. H. Li, **L. Lai** and S. Djouadi, “Combating False Reports for Secure Networked Control in Smart Grid via Trustiness Evaluation,” *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011.
- C36. H. Li. **L. Lai** and R. Qiu, “A Denial-of-Service Jamming Game for Remote State Monitoring in Smartgrid,” *Conference on Information Sciences and Systems (CISS)*, Baltimore, MD, Mar. 2011.
- C35. H. Li, C. F. Chen and **L. Lai**, “Propagation of Spectrum Preference in Cognitive Radio: A Social Network Approach,” *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011.
- C34. Y. Xin, G. Yue, and **L. Lai**, “Efficient Channel Search Algorithms for Cognitive Radio in a Multichannel System,” *IEEE Global Communications Conference (Globecom)*, Miami, FL, Dec. 2010.
- C33. H. Li, R. Mao, **L. Lai** and R. C. Qiu, “Compressed Meter Reading for Delay-sensitive and Secure Load Report in Smart Grid,” *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Gaithersburg, MD, Oct. 2010.
- C32. H. Li, **L. Lai** and R. C. Qiu, “Communication Capacity Requirement for Reliable and Secure State Estimation in Smart Grid,” *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Gaithersburg, MD, Oct. 2010.

- C31. R. Caromi, Y. Xin and **L. Lai**, “Fast Multichannel Spectrum Scanning With Multiple Simultaneous Observations,” *IEEE International Conference on Wireless Communications and Signal Processing (WCSP)*, Suzhou, China, Oct. 2010. **(Invited)**
- C30. **L. Lai**, Y. Liang and H. Vincent Poor, “Key Agreement over Wireless Fading Channels with an Active Attacker,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2010. **(Invited)**
- C29. **L. Lai**, H. V. Poor, Y. Xin and G. Georgiadis, “Quickest Sequential Opportunity Search in Multichannel Systems,” *International Workshop on Applied Probability (IWAP)*, Madrid, Spain, July 2010. **(Invited)**
- C28. **L. Lai**, Y. Liang and S. Shamai (Shitz), “On the Capacity Region of the Poisson Interference Channels,” *IEEE International Symposium on Information Theory (ISIT)*, Austin, TX, June 2010.
- C27. R. C. Qiu, Z. Chen, N. Guo, Y. Song, P. Zhang, H. Li and **L. Lai**, “Towards A Real-time Cognitive Radio Network Testbed: Architecture, Hardware Platform, and Application to Smart Grid,” *IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, Boston, MA, June 2010. **(Invited)**
- C26. Y. Xin and **L. Lai**, “Fast Wideband Spectrum Scanning for Multi-channel Cognitive Radio Systems,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2010.
- C25. **L. Lai**, S.-W. Ho and H. Vincent Poor, “Privacy-security Tradeoffs in Reusable Biometric Security System,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Dallas, TX, Mar. 2010.
- C24. **L. Lai** and H. Vincent Poor, “A Unified Framework for Key Agreement over Wireless Fading Channels,” *IEEE Information Theory Workshop (ITW)*, Taormina, Sicily, Italy, Oct. 2009.
- C23. Y. Liang, **L. Lai**, H. Vincent Poor and S. Shamai (Shitz), “The Broadcast Approach to Fading Wiretap Channels,” *IEEE Information Theory Workshop (ITW)*, Taormina, Sicily, Italy, Oct. 2009.
- C22. Y. Liang, **L. Lai** and J. Halloran, “Distributed Algorithm for Collaborative Detection in Cognitive Radio Networks,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Monticello, IL, Sept. 2009. **(Invited)**
- C21. V. Aggarwal, **L. Lai**, A. R. Calderbank and H. Vincent Poor, “Wiretap Channel Type II with an Active Eavesdropper,” *IEEE International Symposium on Information Theory (ISIT)*, Seoul, Korea, June/July 2009.
- C20. **L. Lai**, S.-W. Ho and H. Vincent Poor, “A Theoretic Framework for Biometric Security Systems,” *International Conference on Biometrics (ICB)*, Sassari, Italy, June 2009.
- C19. **L. Lai**, Y. Fan and H. Vincent Poor, “Quickest Detection in Cognitive Radio: A Sequential Change Detection Framework,” *IEEE Global Communications Conference (Globecom)*, New Orleans, LA, Dec. 2008.
- C18. H. Jiang, **L. Lai**, R. Fan and H. Vincent Poor, “Cognitive Radio: How to Maximally Utilize Spectrum Opportunities in Sequential Sensing,” *IEEE Global Communications Conference (Globecom) 2008*, New Orleans, LA, Dec. 2008.
- C17. **L. Lai**, H. Jiang and H. Vincent Poor, “Medium Access in Cognitive Radio Networks: A Competitive Multi-armed Bandit Framework,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, Pacific Grove, CA, Oct. 2008. **(Invited)**
- C16. **L. Lai**, S.-W. Ho and H. Vincent Poor, “Privacy-Security Tradeoffs in Biometric Security Systems,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2008.
- C15. Y. Fan, **L. Lai**, E. Erkip and H. Vincent Poor, “Rateless Coding for MIMO Block Fading Channels,” *IEEE Symposium on Information Theory (ISIT)*, Toronto, Canada, July 2008.
- C14. O. Koyluoglu, H. El Gamal, **L. Lai** and H. Vincent Poor, “On the Secure Degrees of Freedom in the K -User Gaussian Interference Channel,” *IEEE Symposium on Information Theory (ISIT)*, Toronto, Canada, July 2008.

- C13. **L. Lai**, H. El Gamal, H. Jiang and H. Vincent Poor, “Optimal Medium Access Control in Cognitive Radios: A Sequential Design Approach”, *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Las Vegas, NV, Apr. 2008.
- C12. **L. Lai**, H. El Gamal, H. Jiang and H. Vincent Poor, “Optimal Medium Access Protocols for Cognitive Radio Networks,” *Intl. Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, Berlin, Germany, Mar. 2008.
- C11. **L. Lai**, H. El Gamal and H. Vincent Poor, “Authentication over Noisy Channels,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2007.
- C10. **L. Lai**, H. El Gamal and H. Vincent Poor, “Secrecy Capacity of the Wiretap Channel with Noisy Feedback,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2007.
- C9. **L. Lai** and H. El Gamal, “Cooperative Secrecy: The Relay-Eavesdropper Channel,” *IEEE Symposium on Information Theory (ISIT)*, Nice, France, June 2007.
- C8. P. K. Gopala, **L. Lai** and H. El Gamal, “On the Secrecy Capacity of Fading Channels,” *IEEE Symposium on Information Theory (ISIT)*, Nice, France, June 2007.
- C7. **L. Lai** and H. El Gamal, “On Cooperation in Energy Limited Wireless Networks,” *IEEE International Conference on Computer Communications (INFOCOM)*, Anchorage, AK, May 2007.
- C6. **L. Lai** and H. El Gamal, “Cooperation for Secure Communication: The Relay Wiretap Channel,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Honolulu, HI, Apr. 2007.
- C5. **L. Lai**, P. K. Gopala and H. El Gamal, “Secure Communications over Wireless Channels,” *UCSD Information Theory and Application (ITA)*, San Diego, CA, Jan. 2007. **(Invited)**
- C4. **L. Lai** and H. El Gamal, “Fading Multiple Access Channels: A Game Theoretic Perspective,” *IEEE Symposium on Information Theory (ISIT)*, Seattle, WA, July 2006.
- C3. **L. Lai**, K. Liu and H. El Gamal, “On the Achievable Rates and Cooperation Strategies of Three-Node Wireless Network,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2005.
- C2. **L. Lai**, K. Liu and H. El Gamal, “On the Achievable Rate of Three-Node Wireless Networks,” *IEEE International Conference on Wireless Networks, Communications, and Mobile Computing (Wirelesscom)*, Maui, HI, June 2005. **(Invited)**
- C1. Z. Zhang and **L. Lai**, “A Practical Slotted Quasi-Synchronous CDMA Access System for LEO Micro-Satellite Short Message Transmission,” *IEEE International Conference on Communications (ICC)*, Anchorage, AK, May 2003.

NON-INTERVIEW INVITED TALKS

- “Robust Conditional Value-at-Risk Based Risk-Sensitive Reinforcement Learning,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Champaign, IL, Sept. 2025.
- “Two-stage Sequential Change Diagnosis Problems,” *International Joint Conference on Computational and Financial Econometrics (CFE) and Computational and Methodological Statistics (CMStatistics)*, Dec. 2024.
- “On the Adversarial Robustness of Reinforcement Learning Algorithms,” *Mobile Intelligent Communication Networks Forum*, Oct. 2023.
- “Policy Gradient Based Entropic-VaR Optimization in Risk-Sensitive Reinforcement Learning,” *Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, Montecello, IL, Sept. 2022.

- “On the Adversarial Robustness of Reinforcement Learning Algorithms,” Innopeak Technology, July 2022.
- “Distributed Statistical Inference with Compressed Data,” London Symposium of Information Theory, May 2021.
- “Nearest Neighbor Methods for Estimating Information Theoretic Quantities,” Inaugural Center for Data Science and Artificial Intelligence Research (CeDAR) Workshop, Dec. 2019.
- “Distributed Statistical Inference with Compressed Data,” Harvard University, May 2019.
- “Distributed Statistical Inference with Compressed Data,” Statistics Department, University of California, Davis, Nov. 2018.
- “Quick Best Action Identification in Linear Bandit Problems,” *Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, Oct. 2018.
- “Statistical Inference over Time Varying High-Dimensional Models,” *AMS Sectional Meeting*, San Francisco, CA, Oct. 2018.
- “Distributed Statistical Inference with Compressed Data,” Beijing Institute of Technology, Beijing, China, Sept. 2018.
- “Communication Efficient Distributed Learning with Feature Partitioned Data,” *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, Mar. 2018.
- “Inference Task Oblivious Data Reduction”, *UCSD Information Theory and Applications Workshop (ITA)*, San Diego, CA, Feb. 2018.
- “Distributed Statistical Inference with Compressed Data,” Zhejiang University, Hangzhou, China, July 2017.
- “On the Sum-Rate Capacity of Poisson MISO Multiple Access Channels,” *IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, China, Dec. 2016.
- “Distributed Statistical Inference with Compressed Data,” Shenzhen University, Shenzhen, China, Dec. 2016.
- “Distributed Statistical Inference with Compressed Data,” University of California, Berkeley, CA, Oct. 2016.
- “Communications and Inference: Secrecy and Efficiency Perspectives,” Tongji University, Shanghai, China, Mar. 2016.
- “On the Authenticated Channel Capacity,” *UCSD Information Theory and Applications Workshop (ITA)*, San Diego, CA, Feb. 2016.
- “Distributed Statistical Inference with Compressed Data,” Georgia Institute of Technology, Atlanta, GA, Oct. 2015.
- “Change-Point Estimation in High Dimensional Linear Regression Models via Sparse Group Lasso,” *Annual Allerton Conference on Communication, Control, and Computing*, Montecello, IL, Oct. 2015.
- “Distributed Statistical Inference with Compressed Data,” Purdue University, West Lafayette, IN, Sept. 2015.
- “Detecting Changes in High-Dimensional Regression Models,” University of Michigan, Ann Arbor, MI, May 2015.
- “On the Simulatability Condition in Key Generation Over a Non-authenticated Public Channel,” *UCSD Information Theory and Applications Workshop (ITA)*, San Diego, CA, Feb. 2015.
- “Statistical Inference over Time-Varying High-Dimensional Models,” Temple University, Philadelphia, PA, Oct. 2014.

- “Statistical Inference over Time-Varying High-Dimensional Models,” Shanghai Jiaotong University, Shanghai, China, Aug. 2014.
- “Statistical Inference over Time-Varying High-Dimensional Models,” Zhejiang University, Hangzhou, China, Aug. 2014.
- “Statistical Inference over Time-Varying High-Dimensional Models,” Peking University, Beijing, China, Aug. 2014.
- “Statistical Inference over Time-Varying Models,” *Workshop on Bridging the Gap: Complex Networks and Information*, Air Force Research Lab, Rome, NY, July 2014.
- “Detecting Changes in Regression Models via Sparse Group Lasso,” *UCSD Information Theory and Applications Workshop (ITA)*, San Diego, CA, Feb. 2014.
- “Key Generation Through Two-Way Relay Channels under Active Attacks,” *Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, Nov. 2013.
- “Quickest Change Point Detection with Stochastic Energy Constraints,” Rutgers University, New Brunswick, NJ, Aug. 2013.
- “Quickest Change Point Detection with Stochastic Energy Constraints,” *International Workshop in Sequential Methodologies (IWSM)*, University of Georgia, Athens, Georgia, July. 2013.
- “Quickest Change Point Detection with Stochastic Energy Constraints,” Air Force Research Lab, Rome, NY, June 2013.
- “Quickest Change Point Detection with Stochastic Energy Constraints,” Syracuse University, Syracuse, NY, June 2013.
- “Generating Keys in Pairwise Independent Networks,” *UCSD Information Theory and Applications Workshop (ITA)*, San Diego, CA, Feb. 2013.
- “Distributed Quickest Change Point Detection and Identification,” MIT Lincoln Laboratory, Lexington, MA, Feb. 2013.
- “Generating Keys From Wireless Fading Channels,” University of Massachusetts, Amherst, MA, Nov. 2012.
- “Generating Keys From Wireless Fading Channels,” University of Connecticut, Storrs, CT, Nov. 2012.
- “Generating Keys From Wireless Fading Channels,” Embry-Riddle Aeronautical University, Daytona Beach, FL, Oct. 2012.
- “Generating Keys From Wireless Fading Channels,” University of Massachusetts at Dartmouth, Dartmouth, MA, Oct. 2012.
- “Generating Keys From Wireless Fading Channels,” University of Iowa, Iowa City, IA, Oct. 2012.
- “Simultaneously Generating Multiple Keys for Secure Communications and Smart Grid,” Air Force Research Lab, Rome, NY, July 2012.
- “Optimal Sequential Detection with Stochastic Energy Constraint,” *IEEE International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Workshop on Optimization for Green Wireless Communication Networks*, Beijing, China, Dec. 2011.
- “Cooperative Key Generation in Wireless Networks,” *INFORMS Midwestern Conference on Analytics for Competitive Advantage*, Ohio State University, Columbus, OH, Aug. 2011.
- “A Unified Framework for Key Agreement over Wireless Fading Channels,” University of South Australia, Adelaide, Australia, Oct. 2010.
- “A Unified Framework for Key Agreement over Wireless Fading Channels,” University of New South Wales, Sydney, Australia, Oct. 2010.

- “Quickest Sequential Opportunity Search in Multichannel Systems,” *International Workshop on Applied Probability (IWAP)*, Madrid, Spain, July 2010.
- “Capacity Bounds for the Poisson Interference Channel,” *UCSD Information Theory and Applications Workshop (ITA)*, San Diego, CA, Feb. 2010.
- “Information Security: An Information Theoretic Approach,” University of Tennessee, Knoxville, TN, Nov. 2009.
- “Privacy-Security Tradeoffs in Biometric Security Systems,” Worcester Polytechnic Institute, Worcester, MA, Dec. 2008.
- “Wireless Network Security and Biometric Security: An Information Theoretic Perspective,” Mitsubishi Electric Research Labs (MERL), Cambridge, MA, Dec. 2008.
- “Privacy-Security Tradeoffs in Biometric Security Systems,” New Jersey Institute of Technology, Newark, NJ, Nov. 2008.
- “On the Design of Secure and Efficient Wireless Networks,” Stanford University, Stanford, CA, Aug. 2008.
- “Cognitive Medium Access: An Optimal Learning Approach,” Rutgers University, North Brunswick, NJ, Feb. 2008.
- “Secure Wireless Communications: A Physical Layer Approach,” Columbia University, New York City, NY, Nov. 2007.
- “Secure Communications over Wireless Channels,” Zhejiang University, Hangzhou, China, Jan. 2007.

PROFESSIONAL SERVICES

- **Editorship**

- Senior Area Editor, IEEE Transactions on Signal and Information Processing over Networks, 2025-
- Senior Area Editor, IEEE Transactions on Information Forensics and Security, 2024 -
- Associate Editor, IEEE Transactions on Information Theory, 2021 -
- Associate Editor, IEEE Transactions on Mobile Computing, 2021 - 2025
- Associate Editor, IEEE Transactions on Signal and Information Processing over Networks, 2021 - 2024
- Guest Editor, IEEE Wireless Communications, *Special Issue on AI-Powered Telco Network Automation: 5G Evolution and 6G*, 2022- 2023
- Editor, IEEE Transactions on Information Forensics and Security, 2015 - 2020
- Editor, IEEE Transactions on Wireless Communications, 2013 - 2018
- Guest Editor, IEEE Journal on Selected Areas in Communications, *Special Issue on Signal Processing Techniques for Wireless Physical Layer Security*, 2012 - 2013

- **Grant Reviewer**

- National Science Foundation Review Panel
Jan. 2026,
Sept. 2025, May 2025, Apr. 2025,
Oct. 2024, Feb. 2024,
Sept. 2023, Mar. 2023,
Mar. 2022, Jan. 2022,
Aug. 2021, July 2021, Apr. 2021, Mar. 2021, Feb. 2021,
Nov. 2020, Sept. 2020, May 2020, Apr. 2020, Feb. 2020,

Dec. 2019, Oct. 2019, July 2019, Apr. 2019, Mar. 2019, Feb. 2019,
Oct. 2018, Aug. 2018, Jul. 2018, Feb. 2018,
Oct. 2017, Sept. 2017, Aug. 2017, May 2017, Apr. 2017, Feb. 2017,
Nov. 2016, Oct. 2016, Aug. 2016, Mar. 2016, Feb. 2016, Jan. 2016,
Apr. 2015, Feb. 2015,
Oct. 2014, Aug. 2014, Feb. 2014,
May 2013

- Israel Science Foundation, 2025, 2022, 2020, 2019, 2018, 2017
- C3.ai Digital Transformation Institute, 2020
- European Research Council, 2018, 2016
- Army Research Office, 2016
- Louisiana Board of Regents, 2012
- DTRA: Basic Research in Network Science, 2012
- **Technical Program Committee Chair**
 - Co-Chair, “Wireless Data Privacy and Communication Security” Symposium, International Conference on Wireless Communications and Signal Processing, 2023
 - Co-Chair, “Network and Information Security” Symposium, International Conference on Wireless Communications and Signal Processing, 2018
 - Chair, Special Session on “Information Theoretic Approaches for Security”, IEEE International Workshop on Signal Processing Advances in Wireless Communications, 2018
 - Co-Chair, “Wireless Communications” Symposium, IEEE International Conference on Computing, Networking and Communications, 2018
 - Co-Chair, “Communication Theory” Symposium, IEEE Global Communications Conference, 2017
 - Co-Chair, Workshop on Signal Processing for Big Data in Wireless Networks, IEEE Global Telecommunication Conference, 2016
 - Co-Chair, “Communications and Information Security” Symposium, IEEE International Conference on Computing, Networking and Communications, 2016
 - Co-Chair, Workshop on Physical-layer Methods for Wireless Security, IEEE Conference on Communications and Network Security, 2014
 - Publication Chair, IEEE International Symposium on Personal Indoor, and Mobile Radio Communications, 2014
 - Co-Chair, “Green Building and Smart Grid Technologies” Symposium, International Conference on Intelligent Green Building and Smart Grid, 2014
 - Co-Chair, “Communication and Information Theory” Symposium, the IEEE International Conference on Communications in China, 2013
 - Co-Chair, “Wireless Networks and Security” Track, IEEE Vehicular Technology Conference, Fall, Las Vegas, NV, 2013
 - Co-Chair, “Cyber Security, Trust and Privacy” track, the Sixth International Conference on Broadband and Wireless Computing, Communication and Applications, 2012
 - Invited Session Organizer, “Games in Self-Configuring Networks and Smart Grid”, 3rd International Conference on Game Theory for Networks, 2012
- **Session Chair**
 - IEEE Information Theory Workshop (ITW), 2024
 - IEEE International Symposium on Information Theory (ISIT), 2023, 2021, 2019, 2017

- IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2018
- IEEE International Conference on Communication Systems (ICCS), 2016
- Information Theory and Applications Workshop (ITA), 2015, 2014
- Conference on Information Sciences and Systems (CISS), 2013, 2008
- Asilomar Conference on Signals, Systems, and Computers (Asilomar), 2012
- IEEE Global Communications Conference (GLOBECOM), 2010
- IEEE Wireless Communications and Networking Conference (WCNC), 2008
- **Technical Program Committee Member**
 - IEEE Information Theory Workshop, 2025
 - IEEE International Conference on Communication, Networks and Satellite (COMNETSAT), 2021, 2020
 - IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2024, 2022, 2021, 2020
 - IEEE Conference on Communications and Network Security (CNS), 2019, 2017
 - IEEE International Conference on Computer Communications and Networks (ICCCN), 2015
 - IEEE International Conference on Distributed Computing in Sensor Systems(DCOSS), 2015
 - International Conference on Body Area Networks (BodyNet), 2013
 - IEEE Global Conference on Signal and Information Processing (GlobalSIP), 2019, 2017, 2016, 2013
 - IEEE International Conference on Smart Grid Communications (SmartGridComm), 2014, 2013
 - IEEE International Conference on Computer Communications (INFOCOM), 2014, 2012, 2011
 - IEEE Conference on Communications (ICC), 2015, 2014, 2013, 2012, 2011, 2010
 - IEEE Vehicular Technology Conference (VTC), 2014 Fall, 2012 Fall
 - IEEE Global Communications Conference (GLOBECOM), 2025, 2024, 2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2013, 2011, 2010, 2008
 - IEEE International Conference on Communications in China (ICCC), 2012
 - IEEE Wireless Communications and Networking Conference (WCNC), 2010, 2008
 - International Conference on Information Theoretic Security (ICITS), 2013
 - International Conference on Wireless Communications and Signal Processing (WCSP), 2017, 2013, 2012, 2010, 2009
 - IEEE International Conference on Military Communications (Milcom), 2019, 2018, 2017, 2016
 - IEEE International Conference on Communication Technology (ICCT), 2011
 - Queen's Biennial Symposium on Communications (QBSC), 2010
 - IEEE Radio and Wireless Symposium (RWS), 2010
 - IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2010
 - IEEE Annual Canadian Conference on Electrical and Computer Engineering (CCECE), 2009
- **Reviewer**
 - IEEE Transactions on Information Theory
 - IEEE/ACM Transactions on Networking

- IEEE Transactions on Signal Processing
- IEEE Transactions on Communications
- IEEE Transactions on Wireless Communications
- IEEE Transactions on Information Forensics and Security
- IEEE Transactions on Mobile Computing
- IEEE Journal on Selected Areas in Communications
- IEEE Communications Letters
- IEEE Signal Processing Letters
- IEEE Transactions on Smart Grid
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Wireless Communications Letters
- IEEE Systems Journal
- NeurIPS, ICLR, ISIT, INFOCOM, GLOBECOM, ICC, ICASSP, VTC, WCNC, CISS

UNIVERSITY SERVICES

- **Committee**
 - College of Engineering Faculty Personnel Committee, Fall 2025 -
 - Academic Senate Alternative Representative (UC Davis), Fall 2025 -
 - ECE Graduate Study Committee (UC Davis), Fall 2025 -
 - ECE Communications Committee (UC Davis), Spring 2025 -
 - College of Engineering Graduate Studies Committee (UC Davis), Fall 2022 - Spring 2024
 - Chair, ECE Graduate Study Committee (UC Davis), Fall 2022 - Spring 2024
 - Chair, ECE Graduate Program Executive Committee (UC Davis), Fall 2022 - Spring 2024
 - ECE Teaching Assignment Committee (UC Davis), Fall 2022 - Spring 2024
 - ECE Department Executive Committee (UC Davis), Fall 2022 - Spring 2024
 - ECE Graduate Students Awards Committee (UC Davis), Fall 2022 - Spring 2024
 - Graduate Studies Fellowship Review Committee (UC Davis), Fall 2022 - Spring 2023
 - ECE Space Committee (UC Davis), Fall 2022 - Spring 2023
 - COE Faculty Recruiting Committee (UC Davis), Spring 2023
 - Chair, ECE Unit 18 Lecturer Recruiting Committee (UC Davis), Winter 2023
 - ECE Academic Planning Committee (UC Davis), Spring 2021
 - Chair, ECE Unit 18 Lecturer Recruiting Committee (UC Davis), Fall 2020
 - ECE Undergraduate Curriculum Review Committee (UC Davis), Fall 2020 - Spring 2022
 - ECE Personnel Committee (UC Davis), Fall 2020 - Spring 2021
 - ECE Undergraduate Program Committee (UC Davis), Fall 2020 - Spring 2022
 - ECE/ITS Faculty Recruiting Committee (UC Davis), Fall 2020- Spring 2021
 - ECE Graduate Study Committee (UC Davis), Fall 2016 - Fall 2022
 - Chair, ECE Unit 18 Lecturer Recruiting Committee (UC Davis), Spring 2020
 - College of Engineering Graduate Studies Committee, Alternative (UC Davis), Fall 2019 - Spring 2020
 - Chair, ECE Graduate Admission Committee (UC Davis), Fall 2016 - Spring 2020

- ECE Committee of Research Area Leads (UC Davis), Fall 2019 - Spring 2020
- ECE MS Program Restructuring and Global Expansion Committee (UC Davis), Fall 2017 - Spring 2019
- ECE Lecturer Recruiting Committee (UC Davis), Winter 2019
- Graduate Program Committee (WPI), Fall 2012 - Spring 2016
- Faculty Research Committee (UALR), Fall 2011 - Spring 2012
- Undergraduate Curriculum Committee (UALR), Fall 2010 - Spring 2012
- Telecommunications and Networking Engineering Track Coordinator (UALR), Fall 2011 - Spring 2012
- Department Strategic Planning Ad Hoc Committee (UALR), Fall 2011 - Spring 2012
- Student Excellence Award Ad Hoc Committee (UALR), Spring 2011
- **Other University Services**
 - Faculty Fellow: Professor for the Future Program, Fall 2023 - Spring 2024
 - Lecturer, California State Summer School for Mathematics and Science (COSMOS), 2023, 2022
 - Judge, ECE Provost MQP Competition (WPI), 2014, 2013
 - Lecturer, Engineering Scholar Program for High School Students (UALR), 2011, 2010
 - Judge, Best Robotics Competition for High School Students (UALR), 2011, 2010
 - Judge, University of Arkansas Student Research Expo (UALR), 2011

STUDENTS

- **Graduate Students**
 - Renxiang Huang, PhD student (ECE, 2024 - Present)
 - Mo Lyu, PhD student (CS, 2024 - Present)
 - Yanhao Jin, PhD student (Statistics, Co-advise with Professor Krishnakumar Balasubramanian, 2024 - Present)
 - Haodong Liang, PhD student (ECE, Co-advise with Professor Krishnakumar Balasubramanian, 2023 - Present)
 - Chenye Yang, PhD student (ECE, 2022 - Present)
 - Kaleb Kotott, MS student (ECE, 2025 - Present)
 - Aunsh Bandivadekar, MS student (ECE, Co-advise with Dr. Boon-Ling Yeo, 2024 - Present)
 - Jipeng Li, MS, December 2025
Thesis: In-Context Reinforcement Learning with Transformer and Mamba Architecture
 - Xinyi Ni, PhD, December 2024
Thesis: Risk-Sensitive Reinforcement Learning with Coherent Risk Measures
Current position: Tiktok
 - Guanlin Liu, PhD, March 2024
Thesis: Towards Adversarial Robustness of Sequential Decision Making Algorithms
Current position: Bytedance
 - Parisa Oftadeh, MS, June 2024
Thesis: Multi-Agent Constrained Linear Bandits
 - Yulu Jin, PhD, December 2023
Thesis: Robust Statistical Inference with Privacy and Fairness Constraints
Current position: Google

- Xiaochuan Ma, PhD, March 2023 (Co-advised with Professor Shuguang Cui)
Thesis: Two-stage Sequential Change Diagnosis Problems
Current position: Samsung Research
- Aakansha Bhatt, MS, December 2022
Thesis: Host Memory Buffer Implementation in Modern Solid State Drives
Current position: Solidigm
- Xinyang Cao, PhD, August 2022
Thesis: Distributed Optimization Methods Robust to Byzantine Attackers
Current position: Micron Technology
- Minhui Huang, PhD, June 2022 (Co-advised with Professor Shiqian Ma)
Thesis: Minimax Problems in Optimal Transport: Algorithm Design and Convergence Analysis
Current position: Meta
- Victor Madrid, MS, June 2022
Thesis: An Information Theoretic Approach for Fair Machine Learning
- Fuwei Li, PhD, Sept. 2021 (Co-advised with Professor Shuguang Cui)
Thesis: On the Adversarial Robustness of Machine Learning Algorithms
Current position: Black Sesame Technologies Inc.
- Puning Zhao, PhD, June 2021
Thesis: Nearest Neighbor Methods with Applications in Functional Estimation and Machine Learning
Current position: Associate Professor, Sun Yan-sen University, China
- Melody Tao, Master, June 2020
Thesis: Deepfake Detection Using Sequential Transient Change Detection
Current position: Raytheon
- Wenwen Zhao, PhD, Aug. 2018
Thesis: Distributed Testing with Multi-terminal Data Compression
Current position: Qualcomm
- Wenwen Tu, PhD, Aug. 2018
Thesis: Information Theoretic Approaches for Security and Privacy
Current position: Meta
- Bingwen Zhang, PhD, June 2017
Thesis: Change-points Estimation in Statistical Inference and Machine Learning Problems
Current position: Google
- Mostafa El Gamal, PhD, June 2017
Thesis: Distributed Statistical Learning under Communication Constraints
Current position: Western Digital
- Ain-ul-Aisha, PhD, May 2017
Thesis: Fundamental Limits of Poisson Channels in Visible Light Communications
Current position: Hitachi Insights Group
- Jun Geng, PhD, Dec. 2014
Thesis: Quickest Change-Point Detection with Sampling Right Constraints
Current position: Associate Professor at Harbin Institute of Technology, China
- Raied Caromi, PhD, Aug. 2014 (Co-advised with Dr. Seshari Mohan)
Thesis: Optimal Spectrum Sensing and Channel Search Strategies for Cognitive Radio Systems: Algorithms, Analysis and Real-time Implementation
Current position: National Institute of Standards and Technology

- **Undergraduate Student**

- Jianhai Shu (Summer 2025, Tsinghua University)
“Robust Reinforcement Learning with Human Feedback”
- Wenfang Deng (Summer 2025, Southern University of Science and Technology)
“Robust Dueling Bandit Algorithms”
- Kevin Xia (Winter 2025, Harvey Mudd College)
“Adversarial Attack on Stochastic Bandits”
- Andrew Gao (Summer 2024, Brown University)
“Adversarial Attack on Non-Stationary Bandits”
- Maxwell Lin (Winter 2024, Princeton University)
“Machine Learning for Finance”
- Andrew Gao (Summer 2023, Brown University)
“Adversarial Robustness of Fair Machine Learning”
- Jin Zhou (Summer 2022, New York University)
“Action Manipulation Against Stochastic Bandits”
- Qixian Fang (Summer 2019, Zhejiang University)
“Adversarially Robust Distributed Optimization”
- Toshinori Kitamura (Spring 2019)
“Reinforcement Learning for Traffic Control”
- June Tu (Summer 2018)
“Statistical Machine Learning Algorithms”
- Dingyi Zhang (Summer 2018, Zhejiang University)
UC Davis GREAT Program, “Robustness of Mutual Information Estimators”
- Mengyuan Li (Summer 2017, Zhejiang University)
UC Davis GREAT Program, “Learning from Non-experts”
- Zilu Tian (Summer 2016)
“Statistical Inference using Compressed Data”
- Caitlyn Marcoux and William Eder (Sept. 2015- Mar. 2016)
MQP project “Key Generation for Wireless Devices”
- Kewen Gu and Michael Benjamin Smith (Jan. 2015- Apr. 2015)
IQP Project “New Uses for Old Cell Phones”
- Mark Andrew Zayac, Ryan John Thornhill, and Ryan Welch (Sept. 2014- Mar. 2015)
MQP project “Sensors Based Renewable Energy”
- Calvin Xuan Nguyen, Megan Bredes, and Shridhar Ambady (Sept. 2014- Mar. 2015)
MQP project “A Prototype for Visible Communications”
- Alexander Dich, Casey David Barney, and Dennis Koufos (Sept. 2013- Mar. 2014)
MQP project “A Prototype for Visible Communications”
- Eric Willcox, Ryan Christopher Wheeler, and Sergey Zolotykh (Sept. 2013- Mar. 2014)
MQP project “Automated Tool Prep/Crib”, co-advised with Professors Stephen Nestinger and Craig Putnam
- Adam Blumenau, Alec Ishak, Brett Limone, Zachary Mintz, Corey Russell, and Adrian Sudol (Sept. 2012- Mar. 2013)
MQP project “Intelligent Portable Aerial Surveillance System”, co-advised with Professor Taskin Padir

- Noor Jabur (Jan. 2011- Dec. 2011)
Supported by ADHE undergraduate research experience grant
- Rania Saleem (Jan. 2011- May. 2011)
Supported by UALR Graduate School
- Abdullah Alanaazi, Jose Rico, Mashel Alanazi and Zaher Alzaher (Jan. 2010 - Dec. 2010)
Capstone Senior Design Project
- Sharonda Harmon (Jan. 2010 - Dec. 2010)
Supported by ASTA undergraduate research experience grant

- **High School Student**
 - Isaac Sun (Fall 2023)
 - Aidan Wu (Summer 2022)
 - Gavin Wu (Summer 2022)

- **Visiting Scholar**
 - Prof. Tian Xia (Apr. 2019 - Feb. 2022)
 - Ms. Ying Li (Oct. 2019 - Oct. 2020)
 - Mr. Ke-Wen Huang (Oct. 2019 - Oct. 2020)
 - Prof. Jin Xu (Dec. 2018 - Dec. 2019)
 - Prof. Yunfang Zhu (Sept. 2018 - Sept. 2019)
 - Ms. Qi Gu (Sept. 2017 - Sept. 2018)
 - Prof. Qiang Liu (Aug. 2017 - Aug. 2018)
 - Prof. Rongfei Fan (Sept. 2017 - Sept. 2018)
 - Prof. Zhengzhou Tang (Feb. 2015 - Aug. 2015)
 - Prof. Qian Hu (Feb. 2015 - Aug. 2015)