

# PEIRAN WANG

mobile: (+86) 17883693551 · email: whilebug@gmail.com

## EDUCATION EXPERIENCE

---

**Tsinghua University**, Cybersecurity, *Master* 2022.09-2025.06  
**Sichuan University**, Cybersecurity, Talented Class, National Scholarship, Bachelor 2018.09-2022.06

## AWARDS & SCHOLARSHIP

---

- [1] 2019 National Scholarship by Ministry of Education
- [2] 2019 Sichuan University First-Level Scholarship
- [3] 2021 IEEE Symposium on Computers and Communications (ISCC) **Best Paper Award**
- [4] 2022 Microsoft Research Asia (MSRA) Star of Tomorrow Award
- [5] 2022 Sichuan University Bachelor Excellent Thesis
- [6] 2024 ACM Conference on Computer and Communications Security (CCS) **Distinguished Paper Award**

## CAREER EXPERIENCE

---

**ByteDance**, Research Intern 2024.07-Present  
Work in *Security Research Group* on LLM security.

**Baidu**, Research Intern 2024.05-2024.07  
Work in *ACG (Intelligent Cloud Business Group) Summer Camp*, LLM training acceleration.

**Future Capital**, Investment Intern 2023.06-2023.08  
Work in *computer industry investment group*.

**Microsoft Research Asia**, Research Intern 2021.09-2023.03  
Work in the *system research group* on LLM training acceleration.

## RESEARCH EXPERIENCE

---

**University of Illinois at Urbana-Champaign (UIUC)**, Research Intern 2024.01-2024.11  
Work with *Prof. Haohan Wang* on Trustworthy AI.

**University of California, San Diego (UCSD)**, Research Intern 2023.05-2024.02  
Work with *Prof. Haojian Jin* on TTI model moderation.

**Tencent**, Short-term collaboration 2023.04-2023.05  
Work with the *PowerFL team* on split learning privacy.

**Tsinghua University (THU)**, Research Assistant 2022.09-2023.05  
Work with *Prof. Jessie Hui Wang* on networking.

**Sichuan University (SCU)**, Research Assistant 2020.04-2022.06  
Work with *Prof. Beibei Li* on federated learning and *Prof. Cheng Huang* on mining hijacking.

## ACCEPTED PAPERS

---

- [1] Xue, E., Li, Y., Liu, H., **Wang, P.**, Shen, Y., Wang, H. Towards Adversarially Robust Condensed Dataset by Curvature Regularization. The 39th Annual AAAI Conference on Artificial Intelligence.
- [2] Shao, Z., Li, B., **Wang, P.**, Li, W., Zhang, Y. FedUFD: Uncertainty-Driven Feature Distillation for Heterogeneous Federated Learning. In IEEE International Conference on Computer Communications (INFOCOM), 2025.
- [3] **Wang, P.\***, Li, Q.\*, Yu, L., Wang, Z., Li, A., Jin, H. Moderator: Moderating Text-to-Image Diffusion Models through Fine-grained Context-based Policies. In 31st ACM Conference on Computer and Communications Security (CCS), 2024. **Distinguished Paper Award**.
- [4] Chen, X., Meng, W., **Wang, P.**, Zhou, Q. Distributed Boosting: An Enhancing Method on Dataset Distillation. In 33rd ACM International Conference on Information and Knowledge Management (CIKM), 2024.

- [5] Jiang, N., Wang, J. H., Wang, J., **Wang, P.** Top AS Router Geolocation in Databases: Performance and Techniques. In GLOBECOM 2023 - IEEE Global Communications Conference, pp. 2117-2122. IEEE, 2023.
- [6] Jiang, N., Wang, J. H., Wang, J., **Wang, P.** TinyG: Accurate IP Geolocation Using a Tiny Number of Probers. In 2023 19th International Conference on Network and Service Management (CNSM).
- [7] Li, B., **Wang, P.\***, Shao, Z., Liu, A., Jiang, Y., Li, Y. Defending Byzantine Attacks in Ensemble Federated Learning: A Reputation-based Phishing Approach. *Future Generation Computer Systems*, 147 (2023): 136-148. **1st student author.**
- [8] Li, B., Shao, Z., Liu, A., **Wang, P.** FedCliP: Federated Learning with Client Pruning. *arXiv preprint arXiv:2301.06768* (2023).
- [9] Li, B., **Wang, P.\***, Huang, H., Ma, S., Jiang, Y. FlPhish: Reputation-based Phishing Byzantine Defense in Ensemble Federated Learning. In 2021 IEEE Symposium on Computers and Communications (ISCC), pp. 1-6. IEEE, 2021. **1st student author. Best Paper Award.**
- [10] Li, B., Jiang, Y., Sun, W., Niu, W., **Wang, P.** FedVANet: Efficient Federated Learning with Non-IID Data for Vehicular Ad Hoc Networks. In 2021 IEEE Global Communications Conference (GLOBECOM), pp. 1-6. IEEE, 2021.
- [11] **Wang, P.**, Sun, Y., Huang, C., Du, Y., Liang, G., Long, G. Minedetector: JavaScript Browser-side Cryptomining Detection Using Static Methods. In 2021 IEEE 24th International Conference on Computational Science and Engineering (CSE).

## SUBMITTED PAPERS

---

- [1] **Wang, P.**, Liu, X., Xiao, C. RePD: Defending Jailbreak Attacks Through a Retrieval-based Prompt Decomposition Process. In submission to NAACL 2025 (Meta-review: 4).
- [2] **Wang, P.**, Liu, X., Wu, F., Cao, Y., Zhang, Y., Sun, L., Xiao, C. CVE-Bench: Benchmarking LLM-based Software Engineering Agent's Ability to Repair Real-World CVE Vulnerabilities. In submission to NAACL 2025 (Meta-review: 4).
- [3] **Wang, P.**, Wang, H. DistDD: Distributed Data Distillation Aggregation Through Gradient Matching. *arXiv*, in submission to CPAL.
- [4] Jiang, Y.\*, **Wang, P.\***, Lin, C., Huang, Y., Cheng, Y. SecDT: Mitigating Label Leakage in Two-Party Split Learning. *arXiv*, in submission to TMLR.
- [5] **Wang, P.**, Wang, H. J., Wang, J. Reputation-assisted Network Collaboration Security System Based on Blockchain. In submission to IEEE Network.
- [6] Shao, Z., Li, B., **Wang, P.**, Zhang, Y., Choo, K. K. FedLoRE: Communication-Efficient and Personalized Edge Intelligence Framework via Federated Low-Rank Estimation. In submission to TPDS.
- [7] Liu, H., **Wang, P.**, Xing, T., Li, Y., Dalal, V., Li, L., He, J., Wang, H. Dataset Distillation via the Wasserstein Metric. In submission to CVPR.
- [8] **Wang, P.**, Wang, H. Who's Behind the Curtain: Discover and Understand the LLM-based Chat Agent on the Social Network. In submission to ARR.
- [9] **Wang, P.**, Li, H., Tian, R., Li, S., Wang, Y., Shen, D. Astra: Efficient and Money-saving Automatic Parallel Strategies Search on Heterogeneous GPUs. In submission to MLSys.
- [10] Wang, J.\*, Li, P.\*, Ma, S.\*, **Wang, P.\***, Liu, X., Sun, J., Liang, Y., Xia, T., Wang, Y., Luo, W., Xiao, C. Prompt Injection Benchmark for Foundation Model Integrated Systems. In submission to ICLR.
- [11] **Wang, P.**, Wang, H. Understanding Political Stereotypes in Large Language Models through Ideological Testing. In submission to ARR.
- [12] **Wang, P.**, Wang, H. J., Wang, J. Hierarchy Clustering-based Knowledge Transfer in Collaborative Intrusion Detection. In submission to Computer Network.
- [13] **Wang, P.**, Lu, R., Li, C., Jiang, J., Wang, Z. DistPlanS: Automating Execution Planning for Distributed Deep Neural Networks. In submission to MLSys.
- [14] Yi, L., **Wang, P.**, Yang Li. Split-and-Privatize Framework for Large Language Model Fine-Tuning, in submission to ARR 2025.
- [15] **Wang, P.**, Liu, Y., Lu, Y., Tan, Z. What Are Models Thinking About? Understanding Large Language Model Hallucinations "Psychology" Through Model Inner State Analysis. In submission to USENIX.