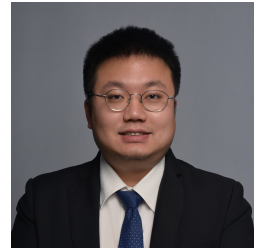


Jing (Ethan) Li 李敬

He/him | Born: April 1997 | Hometown: Nantong, Jiangsu, China
B303b, Lihua Building, Tsinghua University, Beijing, China 100084

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🔗 [Google Scholar](#) 🔗 [LinkedIn](#) 🔗 [GitHub](#) 🏠 [HomePage](#)



Summary

Assistant researcher at the Institute for Industrial Innovation and Finance, Tsinghua University, supervised by Prof. Jinliang Li and Assoc. Prof. Zigan Wang. My work connects AI, FinTech, graph learning, security, market-risk measurement, and research infrastructure. I am exploring part/full-time, three-years PhD opportunities focused on AI, FinTech, or related interdisciplinary areas.

Education

University of Chinese Academy of Sciences **Sep. 2020 – Jun. 2023**

Master of Science in Engineering (M.Sc.Eng.) in Cyberspace Security [GPA: 3.52/4.00] *Beijing, China*

- Minor: Management of Technology; core courses included Business Data Analysis and Information System Management.
- Supervisor: Prof. Rui Hou; research direction: MLSys security.
- Relevant coursework: Information Security, Computer Architecture, AI Systems, and Critical Thinking.
- Thesis: Research and Implementation of Adversarial Attack System for Human Detection.

Gap Year **Jun. 2019 – Sep. 2020**

Graduate exam preparation and family business support *Shenyang & Nantong, China*

- Balanced exam preparation with family responsibilities, travel, and operations support for a grocery store and signboard factory.

Yangzhou University **Sep. 2015 – Jun. 2019**

Bachelor of Engineering (B.Eng.) in Software Engineering (NIIT) [GPA: 3.41/5.00] *Yangzhou, China*

- Supervisor: Prof. Lejun Zhang; research direction: web-security solution development.
- Thesis: Design and Implementation of Web Application Firewall based on OpenResty.

Experience

Institute for Industrial Innovation and Finance, Tsinghua University **Aug. 2023 – Present**

Assistant Researcher, Advisors: Prof. Jinliang Li & Assoc. Prof. Zigan Wang *Beijing, China; on-site*

- Built AI-for-FinTech research workflows for market-risk measurement, backtest, translating macro/microeconomic research questions into data pipelines, LLM/RAG prototypes, and paper-level experiments.
- Coordinated literature review, data processing, experiment design, and platform operations across AI for finance, FinTech, asset pricing, and quantitative-investment topics to accelerate research iteration and reproducibility.

Dimtech SAS (Startup) **Jan. 2025 – Aug. 2025**

Researcher *Paris, France; hybrid*

- Supported quantitative-finance R&D delivery by setting up MLOps and DevOps practices for tracking, model deployment, and version control.

The University of Hong Kong Business School **May 2023 – Aug. 2023**

Research Assistant, Advisor: Asst. Prof. Zigan Wang *Remote*

- Explored finance-and-AI research frontiers and built project management infrastructure to support research team level remote collaboration.

School of Computer Science, Carnegie Mellon University **Oct. 2022 – Jan. 2023**

Research Intern, Advisor: Asst. Prof. Min Xu *Remote*

- Studied adversarial attacks against SMPL-like 3D human meshes and Cryo-ET data analysis, converting remote research tasks into reproducible experiments and technical notes.

MiraclePlus (former Y Combinator China) Jul. 2022 – Aug. 2022
Campus Scout, Advisor: SVP Roderick Dong *Remote*
 • Sourced 20+ campus startup projects and completed preliminary due diligence to support early-stage investment screening.

Institute of Information Engineering, Chinese Academy of Sciences Dec. 2020 – Jun. 2023
Graduate Research Assistant, Advisors: Prof. Rui Hou & Dr. Xingbin Wang *Beijing, China; on-site*
 • Reproduced adversarial-ML papers and produced 10+ technical reports, presentations, and patent drafts, contributing to paper and team research planning.
 • Developed a daily automated unit-test service for in-development artifacts, helping 60+ team members identify and resolve issues faster while maintaining two GPU servers for experiments.

Fatong Legal Consulting Co., Ltd. (Startup) Apr. 2018 – Jun. 2019
Co-founder, Technical Support, Advisor: Assoc. Prof. Zhenyu Bao *Zhenjiang, China; hybrid*
 • Built a Python crawler and NLP-based legal-document processing tool to reduce repetitive manual handling in early legal consulting workflows.

Network Security Research Center, Yangzhou University Apr. 2018 – Jun. 2019
Undergraduate Research Assistant, Advisor: Prof. Lejun Zhang *Yangzhou, China; on-site*
 • Reverse-engineered Netgear router firmware and designed an OpenResty/Lua lightweight software WAF for web-security research.
 • Introduced Git and CI/CD collaboration practices for a 10+ member team, improving task assignment, code review, and modification tracking.

Automotive Electronic Information Research Center, Yangzhou University Apr. 2017 – Apr. 2018
Undergraduate Research Assistant, Advisor: Prof. Liucun Zhu & Prof. Caikou Chen *Yangzhou, China; on-site*
 • Designed an FFT-based NVH order-tracking algorithm for vibration and noise analysis scenarios.

Publications

§ represents the first author; † represents the equal first author; * represents the corresponding author.

Items are ordered reverse-chronologically by publication or acceptance time;

Ranking references: [CCF](#), [ICORE/CORE](#), [ABDC](#), [JCR](#), [SJR](#).

Conference Paper

[14] ★ VideoTrace-R1: Long Video-based Retrieval-Augmented Generation via Reinforcement Learning
*Zongsheng Cao, Anran Liu, Jun Xie, Feng Chen, Lang Chen, **Jing Li**, Zhepeng Wang, Zigan Wang*
 ICML 2026 (CCF-A, ICORE-A*, Regular Paper, Poster), *forthcoming*

[13] Web-Mined Hypothesis Generation for Financial Markets: An Autonomous Backtesting Framework
***Jing Li**§, Jinliang Li*
 ACM WSDM 2026 (CCF-B, ICORE-A, Short Paper, Oral), WSDM Day, [doi:10.1145/3773966.3785511](#)

[12] ★ ViG-RAG: Video-aware Graph Retrieval-Augmented Generation via Temporal and Semantic Hybrid Reasoning
*Zongsheng Cao, Anran Liu, Yangfan He, **Jing Li**, Bo Zhang, Zigan Wang*
 AAI 2026 (CCF-A, ICORE-A*, Regular Paper, Poster), [doi:10.1609/aaai.v40i1.36963](#)

[11] RitualLab: An AI-in-the-loop Collaborative Platform for Designing and Auditing Well-being-Aware Brand Narratives
*Yong Zhen, **Ethan Jing Li**†, Ingrid Paoletti*
 IEEE CSCWD 2026 (CCF-C, ICORE-C, Regular Paper, Oral), *forthcoming*

- [10] T-Vol: Arbitrage-Aware 3D Implied Volatility Surfaces with Transformers
*Haozhe Chen, Isabella Li, **Jing Li**^{*}, Zigan Wang*
 IEEE ICVRV 2025 (CCF-C, Regular Paper, Oral), [doi:10.1109/ICVRV67992.2025.00154](https://doi.org/10.1109/ICVRV67992.2025.00154)
- [9] Context-Aware Meta-Reinforcement Learning for Intelligent Diverse Indoor HVAC Control
*Songling Liu, **Jing Li**[†], Tommaso Buganza*
 IEEE IJCNN 2025 (CCF-C, CORE-B, Regular Paper, Oral), [doi:10.1109/IJCNN64981.2025.11228528](https://doi.org/10.1109/IJCNN64981.2025.11228528)
- [8] Intelligent Transportation Aiding Urban Sustainability: An Empirical Analysis with Reinforcement and Deep Learning
*Qian Cao, **Jing Li**[†], Paolo Trucco*
 IEEE CSCWD 2025 (CCF-C, CORE-C, Regular Paper, Oral), [doi:10.1109/CSCWD64889.2025.11033490](https://doi.org/10.1109/CSCWD64889.2025.11033490)
- [7] High-Frequency Stochastic Volatility model: A Pathway from Bayesian Inference to the Generalized Boltzmann Statistics
*Geoffrey Ducournau, **Jing Li**, Jinliang Li*
 WFBS 2024 (Working Paper, Oral), [doi:10.1109/3637528.3671997](https://doi.org/10.1109/3637528.3671997)
- [6] ★ DiffusionE: Reasoning on knowledge graphs via Diffusion-based Graph Neural Networks
*Zongsheng Cao, **Jing Li**, Zigan Wang, Jinliang Li*
 ACM KDD 2024 (CCF-A, CORE-A*, Regular Paper, Oral), [doi:10.1145/3637528.3671997](https://doi.org/10.1145/3637528.3671997)
- [5] Optimizing Intelligent Transportation Systems with Multi-Agent Reinforcement Learning: A Socio-Economic Impact Assessment
*Qian Cao, **Jing Li**[†], Paolo Trucco*
 EAI INTSYS 2024 (Regular Paper, Oral), [doi:10.1007/978-3-031-86370-7_13](https://doi.org/10.1007/978-3-031-86370-7_13)
- [4] Modeling Interdependencies in Intelligent Traffic Systems and Sustainable Urban Development Using Graph Neural Networks
*Qian Cao, **Jing Li**[†], Paolo Trucco*
 ITFT 2024 (Regular Paper, Oral), [doi:10.1007/978-3-031-84148-4_31](https://doi.org/10.1007/978-3-031-84148-4_31)
- [3] ★ AdvDenoise: Fast Generation Framework of Universal and Robust Adversarial Patches Using Denoise
***Jing Li**[§], Zigan Wang, Jinliang Li*
 IEEE/CVF CVPR 2024 (CCF-A, CORE-A*, Workshop Paper, Oral), Workshop SAIAD, [doi:10.1109/CVPRW63382.2024.00352](https://doi.org/10.1109/CVPRW63382.2024.00352)
- [2] AVS-Net: Attention-based Variable Splitting Network for P-MRI Acceleration
*Yue Zhang, **Jing Li**[†], Zigan Wang, Jinming Duan, Jinliang Li*
 IEEE BIBM 2023 (CCF-B, Regular Paper, Oral), [doi:10.1109/BIBM58861.2023.10385266](https://doi.org/10.1109/BIBM58861.2023.10385266)
- [1] Mimic Octopus Attack: Dynamic Camouflage Adversarial Examples using Mimetic Feature for 3D Humans
***Jing Li**[§], Sisi Zhang, Xingbin Wang, Rui Hou*
 Inscrypt 2022 (CCF-C, CORE-National-China, Regular Paper, Oral), [doi:10.1007/978-3-031-26553-2_23](https://doi.org/10.1007/978-3-031-26553-2_23)

Journal Article

- [5] Graph-Grounded RAG for S2B2C Industrial Safety: A Knowledge-Centric and Auditable Framework
*Fen Hu, Xiwen Luo, Ke Luo, **Ethan J. Li**, Guido J.L. Micheli*
 Engineered Science (SJR-Q1, IF=2.1), 40, 2128, 2026. [doi:10.30919/es2128](https://doi.org/10.30919/es2128)
- [4] Fast Online Learning Algorithm based on Modified Hierarchical Unimodal Thompson Sampling
*Tianchi Zhao, He Liu, **Jing Li**, Yanchao Liu, Hongyin Shi, Guangzhe Zhao, Jinliang Li*
 Pattern Recognition (CCF-B, JCR-Q1, SJR-Q1, IF=7.6), Volume 179, Part A, 2026, 113523.
[doi:10.1016/j.patcog.2026.113523](https://doi.org/10.1016/j.patcog.2026.113523)
- [3] Optimizing Urban Traffic Systems for Sustainable Development: A Multi-Agent Deep Reinforcement Learning Approach
*Qian Cao, **Jing Li**[†], Paolo Trucco*
 Sustainability (JCR-Q2, SJR-Q1, IF=3.3), 18(3):1606, 2026. [doi:10.3390/su18031606](https://doi.org/10.3390/su18031606)

[2] Development of Learn and Teach Online One-Stop Service Platform based on React Native (*in-chinese*)
基于React Native的学教在线一站式平台开发

Jing Li, Caikou Chen, Yu Lu, Zimeng Sheng, Lei Zhu, Zhentao Sui

Computer Knowledge and Technology, Vol.14, No.27, 2018. doi:10.14004/j.cnki.ckt.2018.2924

[1] Research on the Integration of Informatization Systems for Holistic Analysis of University Student Profiles (*in-chinese*)
高校学生全貌分析信息化系统整合解决方案研究

Jing Li, Caikou Chen

Peak Data Science, No.3, 2018. 6:Wanfang Data

Chapter

[1] Financial Research Empowered by Big Data and Artificial Intelligence (*in-chinese*)

基于大数据和人工智能的金融研究

Jinliang Li, Yao Wu

Tsinghua University Press, 2026, ISBN: 978-7-302-70449-2

Patent

[5] A Semantic Diffusion-based Quantitative Backtesting Method and System (*in-chinese*)

一种基于语义扩散的量化回测方法及系统

Jinliang Li, **Jing Li**

CN Invention Patent, *forthcoming*

[4] ★ A Method and Device for Tail Event Processing and Incremental Feature Construction of Multidimensional Data (*in-chinese*)

一种多维数据的尾部事件处理与增量特征构建方法及装置

Jinliang Li, **Jing Li**

CN Invention Patent, *forthcoming*

[3] ★ Academic Situation Analysis Method based on React Native (*in-chinese*)

一种基于ReactNative实现的学情分析方法

Jing Li, Caikou Chen, Zimeng Sheng, Lei Zhu, Yu Lu, Zhentao Sui

CN Invention Patent, CN108845796B, Granted 2021.

[2] A Phone with a Graphical User Interface (*in-chinese*)

带图形用户界面的手机

Jing Li, Caikou Chen, Zimeng Sheng, Lei Zhu, Yu Lu, Zhentao Sui

CN Design Patent, CN305312070S, Granted 2019.

[1] A Kind of One Master and Multiple Slaves Formula Intelligent Video Monitoring Apparatus (*in-chinese*)

一种一主多从式智能视频监控装置

Zhibo Guo, Yi Zhang, Yue Zhang, **Jing Li**, Zhangjie Gong, Xiaoyan Guo, Lian Xue

CN Utility Model Patent, CN208241780U, Granted 2018.

Software Copyright

[6] Securities Collateral Valuation and Spread Risk Measurement Model Testing System V1.0 (*in-chinese*)

证券担保品估值及价差风险计量模型测试系统V1.0

Jinliang Li, **Jing Li**, He Liu

forthcoming

[5] QuantForge Quantitative Research Integration Platform V1.0 (*in-chinese*)

QuantForge 量匠量化研究一体化平台V1.0

Jinliang Li, **Jing Li**, Yanchao Liu

2026SR0472240, Granted 2026.

[4] Learn and Teach Online One-Stop Service Platform based on React Native V1.0 (*in-chinese*)
学教在线一站式服务平台V1.0

Jing Li, Caikou Chen, Yu Lu, Zimeng Sheng, Lei Zhu, Zhentao Sui

2018SR677225, 2018SR677229, 2018SR677243, 2018SR677257, Granted 2018.

[3] Learn and Teach Online Information Security Practice Training Platform V1.0 (*in-chinese*)
学教在线信息安全实践训练平台V1.0

Jing Li, Caikou Chen

2018SR686223, Granted 2018.

[2] NVH V1.0: A Host Computer Control Software for Vibration Analyzers (*in-chinese*)
NVH振动分析仪上位机控制软件V1.0

Liucun Zhu, Yue Zhang, Tian Shao, Yi Zhang, **Jing Li**, Baoli Luo

2018SR001202, Granted 2018.

[1] NVH V1.0: A Cloud Platform for Vibration and Noise Analysis (*in-chinese*)
NVH振动噪声分析云平台V1.0

Liucun Zhu, Yue Zhang, Tian Shao, Yi Zhang, **Jing Li**, Baoli Luo

2018SR000773, Granted 2018.

Projects

Small-Team Infrastructure Operations | *Ops, Hyper-V, AlmaLinux*

2022 – Present

- Designed and maintained self-hosted infrastructure for a 20+ member R&D team, covering GPU servers, compute/storage nodes, and internal service platforms for AI and software-development workloads.
- Handled rack mounting, structured cabling, hardware lifecycle maintenance, and IPMI/iKVM-based remote recovery to keep research infrastructure operable without relying on vendor-managed environments.
- Built centralized IAM with FreeIPA, integrating LDAP, Kerberos, and OIDC so internal tools could share SSO, authorization, and unified user management.
- Containerized internal services with Docker and maintained documentation, automation scripts, and operational procedures to reduce day-to-day maintenance friction.

Physical Adversarial Attack and Defense Research | *PyTorch, 3D Models*

Aug. 2021 – Sep. 2022

- Reproduced SOTA adversarial-example methods for real-world 3D human-detection settings and analyzed their robustness under changing physical deployment conditions.
- Designed defense-oriented evaluation procedures, converting research observations into a CCF-C conference publication and thesis implementation.

Security-Performance Trade-off in GPU Architecture | *C++, TVM, gem5*

Sep. 2021 – Dec. 2021

- Surveyed deep-learning compilers and SOTA schedulers, implemented CUDA kernels, and used TVM/gem5 workflows to study how scheduling choices affect inference security and performance.
- Designed fine-grained scheduling ideas to strengthen compiler-assisted inference security while preserving execution feasibility.

TEE Homomorphic-Encryption Module | *Rust, Intel SGX*

Mar. 2021 – Aug. 2021

- Studied trusted-execution environments and implemented a Rust-based homomorphic-encryption communication component under the Intel SGX framework for privacy-preserving federated-AI scenarios.

Toolchain Porting for a Domestic RISC-V Processor Ecosystem | *QEMU, Docker, GCC*

Jan. 2021

- Ported and validated an embedded software toolchain via cross-compilation for a chip environment supporting the RV64G ISA subset.
- Built a QEMU and Docker-based emulation/build workflow to accelerate environment bring-up and improve reproducibility.

Self-Hosted Infrastructure and Homelab Engineering | *Proxmox VE, WireGuard, Cloudflare* 2021 – Present

- Built an all-in-one Proxmox VE homelab integrating virtualization, NAS storage, internal applications, and infrastructure utilities for centralized resource management.
- Configured OpenWrt-based routing, VLAN segmentation, WireGuard multi-site access, and Cloudflare DNS/tunnels to improve secure remote access and network resilience.
- Orchestrated modular services with Docker Compose, simplifying deployment, upgrades, and lifecycle management across self-hosted applications.

Learn and Teach Online App | *JavaScript, React Native, Android, Prototyping* Jun. 2017 – Jun. 2018

- Built a cross-platform React Native application and interactive prototypes for student-affairs information management at Yangzhou University, supporting grant-funded product workflows and later software-copyright outputs.

Funding Projects

- Ministry of Science and Technology of China, National Key Research and Development Program, Securities Collateral Valuation and Spread Risk Measurement Model, *Grant No. 2023YFC3305402, 6,440,000 CNY*, Core Member, Participation Period: Nov. 2023 – Present
- Ministry of Science and Technology of China, National Natural Science Foundation of China General Program, Research on AI Processor Architectures Supporting Adversarial Example Defense *Grant No. 62272459, 540,000 CNY*, Core Member, Participation Period: Aug. 2021 – Dec. 2022
- Ministry of Science and Technology, National Science Fund for Distinguished Young Scholars, Processor Security Architecture *Grant No. 62125208, 4,000,000 CNY*, Team Member, Participation Period: Aug. 2021 – Dec. 2022
- Ministry of Education of China, National College Student Innovation and Entrepreneurship Training Program, Learn and Teach Online One-Stop Service Platform App, *Grant No. 201711117016Z, 10,000 CNY*, PI, Participation Period: Jun. 2017 - Jul. 2018
- Jiangsu Province Education Department, Jiangsu College Student Innovation and Entrepreneurship Training Program, Development of One Master and Multiple Slaves Formula Intelligent Video Monitoring Apparatus, *Grant No. 201711117060Y, 5,000 CNY*, Co-PI, Participation Period: Sep. 2017 - Jul. 2018

Professional Services

Academic Services

- WFBS 2024 Session Chair, ICIS 2024 Reviewer, ICME 2024 Reviewer

Courses

- Web3 and AI, Spring 2026, Prof. Jinliang Li, Tsinghua University EMBA, TA and Instructor
- Sustainability Leadership, Fall 2025/2024, Prof. Jinliang Li, Tsinghua University, TA
- Thick Black Theory: Winning the CS NPEE Interview, Spring 2024/2023/2022, Jing Li, Virtual, Instructor
- Operating System, Fall 2017, Assoc. Prof. Shuzhi Zou, Yangzhou University, TA
- Programming in C, Fall 2015, Assoc. Prof. Shuzhi Zou, Yangzhou University, TA

Member

- Member of ACM, IEEE, CCF, CACR, CSIG, INNS

Skills & Hobbies

Programming: PyTorch, Python, JavaScript, C++, Rust, PHP, Lua, Go, SQL, Prompt engineering

Geek: Linux, Docker, Network Operator, NAS, Router, All in One, OpenWRT, ESXi, k8s, AWS, Cloudflare

Languages: English (Fluent), Japanese (Basic), Chinese (Native), Jianghuai Mandarin (Native), Cantonese (Basic)

Hobbies: History, Writing, Editing, Collection, Singing, Amateur Radio (BI1MYB), Gaming (FPS, MMORPG)

Extracurricular

- Led chapter of 50+ members to work towards goals that promote community service, academics, and unity.
- Volunteered, organized and held more than 200+ campus salons, cultural and artistic activities.
- 30+ Lectures to 1000+ undergraduates about how to prepare National Postgraduate Entrance Exam.
- Volunteered in distributed computing for drug discovery (Folding@Home, BONIC).

Presentations

- InnoTech 2026, The 1st Innovation and Technology Management Conference, Haidian, Beijing, 20260522
- IEEE CSCWD 2026, The 29th International Conference on Computer Supported Cooperative Work in Design, Virtual, 20260513
- IEEE IJCNN 2025, The 34th International Joint Conference on Neural Networks, Rome, Italy, 20250705
- IEEE CSCWD 2025, The 28th International Conference on Computer Supported Cooperative Work in Design, Compiègne, France, 20250507
- WFBS 2024, The XIII World Finance & Banking Symposium, Abu Dhabi, UAE, 20241218
- ACM KDD 2024, The 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Barcelona, Spain, 20240829
- IEEE BIBM 2023, The 17th IEEE International Conference on Bioinformatics and Biomedicine, Istanbul, Türkiye, 20231208
- Inscrypt 2022, The 18th International Conference on Information Security and Cryptology, Virtual, 20221212

Licenses & Certifications

- [2024] Scientific Research Management Innovation Plan (Business Direction), Tsinghua University
- [2023] BLS-CPR & AED, Red Cross Society of China Beijing Branch
- [2023] The 15th trainee, Hejun Business School, China
- [2022] MLOps Fundamentals, Google Cloud
- [2022] Programming short course and workshop on Deep Learning and Computer Vision, Aristotle University of Thessaloniki, Greece
- [2022] Azure Fundamentals (AZ-900) & Azure AI Fundamentals (AI-900), Microsoft
- [2022] Building Video AI Applications at the Edge on Jetson Nano, Nvidia
- [2021] Driving License, China
- [2018] Securities Qualification Certificate, Securities Association of China
- [2024 & 2019 & 2017] National Qualification of Computer and Software Professional, Ministry of Industry and Information Technology and Ministry of Human Resources and Social Security, China
计算机技术与软件专业技术资格（水平）（中华人民共和国人力资源和社会保障部、工业和信息化部）
 - [2024] [Vice-Senior Title] System Architecture Designer 高级-系统架构设计师
 - [2019] [Middle Title] Information Security Engineer 中级-信息安全工程师
 - [2017] [Middle Title] Information Systems Supervisor 中级-信息系统监理师
 - [2017] [Vice-Senior Title] Information Systems Project Manager 高级-信息系统项目管理师
- [2016] Microsoft Office Specialist: PowerPoint (Office 2016), Microsoft

Honors

- [2022 & 2021 & 2020] UCAS academic scholarship (8,000 CNY * 3)
- [2021] UCAS excellent student leader
- [2021] Capital university vanguard league secretary
- [2021] Huawei excellent campus ambassador
- [2021] Outstanding winner in the 11th capital Internet+ technology reward competition
- [2021] Cambricon great developer
- [2020] Outstanding volunteer in 2020 community-based against COVID-19
- [2019] YZU excellent graduate
- [2018] Bronze medal in the 3rd Jiangsu province college students' entrepreneurship competition (10,000 CNY)

- [2018] National endeavor fellowship (5,000 CNY)
- [2017] Honorable mention in the 4th China-U.S. young makers competition Nanjing regional contest
- [2017] East Group (SZ300376) fellowship (2,000 CNY)
- [2017 & 2016] The 2nd YZU principal prize scholarship (1,000 CNY * 2)
- [2016] DongHua Testing Technology (SZ300354) fellowship (3,000 CNY)
- [2015] The 3rd Prize in the 4th Jiangsu province information security skills competition

Last updated on Jun. 2026

Jing (Ethan) Li 李敬

男，汉族，1997年4月生，江苏南通人，中共党员
北京市海淀区清华大学李华楼B303b, 100084

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概述

现任清华大学产业创新与金融研究院助理研究员，导师为郦金梁教授与王自干副教授。研究兴趣聚焦人工智能与金融科技交叉方向，包括大模型/RAG、图机器学习、市场风险度量、量化回测与信息基础设施运维与开发。正在寻找人工智能、金融科技或相关交叉方向的非全日制/全日制三年制博士机会。

教育背景

中国科学院大学 2020年9月– 2023年6月
工学学术硕士，网络空间安全专业[GPA: 3.52/4.00] 北京

- 辅修：工程与技术管理；课程包括商业数据分析、信息系统管理
- 导师：侯锐研究员；研究方向：机器学习系统安全
- 专业课程：信息安全、计算机体系结构、人工智能系统、批判性思维
- 学位论文：人体检测对抗攻击系统研究与实现

间隔年 2019年6月– 2020年9月
备考研究生入学考试，同时支持家庭经营 辽宁沈阳 & 江苏南通

- 在备考、陪伴家人、旅行与家庭杂货店/标识制作厂经营支持之间平衡时间

扬州大学 2015年9月– 2019年6月
工学学士，软件工程 (NIIT) 专业[GPA: 3.41/5.00] 江苏扬州

- 导师：张乐君教授；研究方向：Web 安全解决方案开发
- 学位论文：基于OpenResty 的轻量级软WAF 设计与实现

工作经历

清华大学产业创新与金融研究院 2023年8月– 至今
助理研究员，导师：郦金梁教授、Zigan Wang (王自干) 副教授 北京；现场

- 面向金融市场风险度量、假设生成与量化回测场景，将宏微观经济研究问题转化借助AI解决、LLM/RAG 原型和论文级实验，支撑AI+FinTech 研究产出。
- 围绕公司金融、资产定价与量化投资课题，承担文献梳理、数据处理、实验设计与平台运维，提升团队研究迭代效率与实验可复现性。

Dimtech SAS (初创企业) 2025年1月– 2025年8月
研究员 法国巴黎；混合

- 面向量化金融研发交付，搭建并维护MLOps 与DevOps 流程，支持实验追踪、模型部署、版本管理和可复现实验环境。

香港大学商学院 2023年5月– 2023年8月
科研助理，导师：Zigan Wang (王自干) 助理教授 远程

- 围绕金融与AI 交叉前沿开展可行性研究，学习金融科技知识，并建设科研团队的项目管理基础设施。

卡内基梅隆大学计算机科学学院 2022年10月– 2023年1月
科研实习生，导师：Min Xu (徐) 助理教授 远程

- 研究针对SMPL-like 3D 人体mesh 的对抗样本攻击与Cryo-ET 数据分析，将远程研究任务沉淀为可复现实验与技术笔记。

奇绩创坛 (原Y Combinator China) 2022年7月– 2022年8月
青年伯乐，导师：董科含副总裁 远程

- 完成20 余个校园创业项目的线索挖掘与初步尽职调查，支持早期投资项目筛选。

中国科学院信息工程研究所

2020年12月– 2023年6月

硕士生科研助理, 导师: 侯锐研究员、王兴宾博士

北京; 现场

- 复现对抗机器学习方向顶会论文, 输出10 余份技术报告、演讲与专利草案, 支撑CCF-C 论文发表与团队选题讨论。
- 开发每日自动化单元测试服务, 帮助60 余名团队成员更快定位并修复研发问题; 同时运维2 台GPU 服务器保障实验运行。

法桐法律咨询有限公司 (初创企业)

2018年4月– 2019年6月

联合创始人, 技术支持

江苏镇江; 混合

- 针对法律文书重复处理效率低的问题, 基于Python 爬虫与NLP 构建自动化处理工具, 支持早期法律咨询业务流程。

扬州大学网络安全研究中心

2018年4月– 2019年6月

本科生科研助理, 导师: 张乐君教授

江苏扬州; 现场

- 开展Netgear 路由器固件逆向开发, 并设计基于OpenResty/Lua 的轻量级软WAF, 用于Web 安全研究。
- 为10 余名成员团队引入Git 与CI/CD 协作流程, 改善任务分配、代码评审与修改追踪。

扬州大学汽车电子信息研究中心

2017年4月– 2018年4月

本科生科研助理, 导师: 朱留存教授

江苏扬州; 现场

- 设计基于FFT 的NVH 阶次跟踪算法, 用于振动与噪声分析场景。

出版物

§ 表示第一作者; † 表示共同第一作者; * 表示通讯作者

排序按发表或录用时间逆序; 会议/期刊分区参考CCF, [ICORE/CORE](#), [ABDC](#), [JCR](#), [SJR](#).

会议论文

- [14] ★ VideoTrace-R1: Long Video-based Retrieval-Augmented Generation via Reinforcement Learning
*Zongsheng Cao, Anran Liu, Jun Xie, Feng Chen, Lang Chen, **Jing Li**, Zhepeng Wang, Zigan Wang*
ICML 2026 (CCF-A, ICORE-A*, Regular Paper, Poster), *forthcoming*
- [13] Web-Mined Hypothesis Generation for Financial Markets: An Autonomous Backtesting Framework
***Jing Li**§, Jinliang Li*
ACM WSDM 2026 (CCF-B, ICORE-A, Short Paper, Oral), WSDM Day, [doi:10.1145/3773966.3785511](#)
- [12] ★ ViG-RAG: Video-aware Graph Retrieval-Augmented Generation via Temporal and Semantic Hybrid Reasoning
*Zongsheng Cao, Anran Liu, Yangfan He, **Jing Li**, Bo Zhang, Zigan Wang*
AAAI 2026 (CCF-A, ICORE-A*, Regular Paper, Poster), [doi:10.1609/aaai.v40i1.36963](#)
- [11] RitualLab: An AI-in-the-loop Collaborative Platform for Designing and Auditing Well-being-Aware Brand Narratives
*Yong Zhen, **Ethan Jing Li**†, Ingrid Paoletti*
IEEE CSCWD 2026 (CCF-C, ICORE-C, Regular Paper, Oral), *forthcoming*
- [10] T-Vol: Arbitrage-Aware 3D Implied Volatility Surfaces with Transformers
*Haozhe Chen, Isabella Li, **Jing Li***, Zigan Wang*
IEEE ICVRV 2025 (CCF-C, Regular Paper, Oral), [doi:10.1109/ICVRV67992.2025.00154](#)
- [9] Context-Aware Meta-Reinforcement Learning for Intelligent Diverse Indoor HVAC Control
*Songling Liu, **Jing Li**†, Tommaso Buganza*
IEEE IJCNN 2025 (CCF-C, CORE-B, Regular Paper, Oral), [doi:10.1109/IJCNN64981.2025.11228528](#)
- [8] Intelligent Transportation Aiding Urban Sustainability: An Empirical Analysis with Reinforcement and Deep Learning
*Qian Cao, **Jing Li**†, Paolo Trucco*
IEEE CSCWD 2025 (CCF-C, CORE-C, Regular Paper, Oral), [doi:10.1109/CSCWD64889.2025.11033490](#)

- [7] High-Frequency Stochastic Volatility model: A Pathway from Bayesian Inference to the Generalized Boltzmann Statistics
*Geoffrey Ducournau, **Jing Li**, Jinliang Li*
 WFBS 2024 (Working Paper, Oral), **World Finance & Banking Symposium 2024 E-Proceedings**
- [6] ★ DiffusionE: Reasoning on knowledge graphs via Diffusion-based Graph Neural Networks
*Zongsheng Cao, **Jing Li**, Zigan Wang, Jinliang Li*
 ACM KDD 2024 (CCF-A, CORE-A*, Regular Paper, Oral), **doi:10.1145/3637528.3671997**
- [5] Optimizing Intelligent Transportation Systems with Multi-Agent Reinforcement Learning: A Socio-Economic Impact Assessment
*Qian Cao, **Jing Li**†, Paolo Trucco*
 EAI INTSYS 2024 (Regular Paper, Oral), **doi:10.1007/978-3-031-86370-7_13**
- [4] Modeling Interdependencies in Intelligent Traffic Systems and Sustainable Urban Development Using Graph Neural Networks
*Qian Cao, **Jing Li**†, Paolo Trucco*
 ITFT 2024 (Regular Paper, Oral), **doi:10.1007/978-3-031-84148-4_31**
- [3] AdvDenoise: Fast Generation Framework of Universal and Robust Adversarial Patches Using Denoise
Jing Li§, Zigan Wang, Jinliang Li
 IEEE/CVF CVPR 2024 (CCF-A, CORE-A*, Workshop Paper, Oral), Workshop SAIAD, **doi:10.1109/CVPRW63382.2024.00352**
- [2] AVS-Net: Attention-based Variable Splitting Network for P-MRI Acceleration
*Yue Zhang, **Jing Li**†, Zigan Wang, Jinming Duan, Jinliang Li*
 IEEE BIBM 2023 (CCF-B, Regular Paper, Oral), **doi:10.1109/BIBM58861.2023.10385266**
- [1] Mimic Octopus Attack: Dynamic Camouflage Adversarial Examples using Mimetic Feature for 3D Humans
Jing Li§, Sisi Zhang, Xingbin Wang, Rui Hou
 Inscrypt 2022 (CCF-C, CORE-National-China, Regular Paper, Oral), **doi:10.1007/978-3-031-26553-2_23**

期刊论文

- [5] Graph-Grounded RAG for S2B2C Industrial Safety: A Knowledge-Centric and Auditable Framework
*Fen Hu, Xiwen Luo, Ke Luo, **Ethan J. Li**, Guido J.L. Micheli*
 Engineered Science (SJR-Q1, IF=2.1), 40, 2128, 2026. **doi:10.30919/es2128**
- [4] Fast Online Learning Algorithm based on Modified Hierarchical Unimodal Thompson Sampling
*Tianchi Zhao, He Liu, **Jing Li**, Yanchao Liu, Hongyin Shi, Guangzhe Zhao, Jinliang Li*
 Pattern Recognition (CCF-B, JCR-Q1, SJR-Q1, IF=7.6), **doi:10.1016/j.patcog.2026.113523**
- [3] Optimizing Urban Traffic Systems for Sustainable Development: A Multi-Agent Deep Reinforcement Learning Approach
*Qian Cao, **Jing Li**†, Paolo Trucco*
 Sustainability (JCR-Q2, SJR-Q1, IF=3.3), 18(3):1606, 2026. **doi:10.3390/su18031606**
- [2] 基于React Native的学教在线一站式平台开发
李敬, 陈才扣, 陆羽, 盛紫朦, 朱蕾, 睦镇涛
 电脑知识与技术, 第14卷, 第27期, 2018年**doi:10.14004/j.cnki.ckt.2018.2924**
- [1] 高校学生全貌分析信息化系统整合解决方案研究
李敬, 陈才扣
 数码设计, 第3期, 2018年**万方数据**

图书章节

[1] 基于大数据和人工智能的金融研究
郦金梁, 吴谣
清华大学出版社, 2026年, ISBN: 978-7-302-70449-2

专利

- [5] 一种基于语义扩散的量化回测方法及系统
郦金梁, 李敬
发明专利, 即将公布
- [4] ★ 一种多维数据的尾部事件处理与增量特征构建方法及装置
郦金梁, 李敬
发明专利, 即将公布
- [3] ★ 一种基于ReactNative实现的学情分析方法
李敬, 陈才扣, 盛紫朦, 朱蕾, 陆羽, 眭镇涛
发明专利, CN108845796B, 2021年授权
- [2] 带图形用户界面的手机
李敬, 陈才扣, 盛紫朦, 朱蕾, 陆羽, 眭镇涛
外观设计专利, CN305312070S, 2019年授权
- [1] 一种一主多从式智能视频监控装置
郭志波, 张懿, 张越, 李敬, 龚张杰, 郭笑言, 薛莲
实用新型专利, CN208241780U, 2018年授权

软件著作权

- 证券担保品估值及价差风险计量模型测试系统V1.0
郦金梁, 李敬, 刘赫
即将公布
- QuantForge 量匠量化研究一体化平台V1.0
郦金梁, 李敬, 刘彦超
2026SR0472240, 2026年登记
- 学教在线一站式服务平台V1.0
李敬, 陈才扣, 陆羽, 盛紫朦, 朱蕾, 眭镇涛
2018SR677225, 2018SR677229, 2018SR677243, 2018SR677257, 2018年登记
- 学教在线信息安全实践训练平台V1.0
李敬, 陈才扣
2018SR686223, 2018年登记
- NVH振动分析仪上位机控制软件V1.0
朱留存, 张越, 邵天, 张懿, 李敬, 罗宝丽
2018SR001202, 2018年登记
- NVH振动噪声分析云平台V1.0
朱留存, 张越, 邵天, 张懿, 李敬, 罗宝丽
2018SR000773, 2018年登记

项目

科研团队基础设施运维 | *Ops, Hyper-V, AlmaLinux*

2022年– 至今

- 为20 余人研发团队设计并维护自托管基础设施, 覆盖GPU 服务器、计算/存储节点与内部服务平台, 支撑AI 与软件研发负载。
- 负责机架上架、结构化布线、硬件生命周期维护与IPMI/iKVM 远程恢复, 降低对外部托管环境的依赖。

- 基于FreeIPA 构建集中式IAM，整合LDAP、Kerberos 与OIDC，为内部工具提供SSO、权限控制和统一用户管理。
- 使用Docker 容器化内部服务，并维护文档、自动化脚本和操作流程，降低日常运维摩擦。

物理域对抗样本攻防研究 | *PyTorch, 3D Models*

2021年8月– 2022年9月

- 复现面向真实世界3D 人体检测场景的SOTA 对抗样本方法，并分析不同物理部署条件下的攻击鲁棒性。
- 设计面向防御评估的实验流程，将研究发现沉淀为CCF-C 会议论文与硕士论文系统实现。

GPU 架构中安全与性能权衡研究 | *C++, TVM, gem5*

2021年9月– 2021年12月

- 调研深度学习编译器与SOTA 调度器，编写CUDA kernel，并结合TVM/gem5 分析调度策略对推理安全与性能的影响。
- 提出细粒度调度思路，在保持执行可行性的同时强化编译器辅助的推理安全。

TEE 同态加密通信模块 | *Rust, Intel SGX*

2021年3月– 2021年8月

- 调研可信执行环境，在Intel SGX 框架下使用Rust 实现同态加密通信组件，服务于隐私保护型联邦AI 场景。

国产RISC-V 处理器软件工具链移植 | *QEMU, Docker, GCC*

2021年1月

- 通过交叉编译为仅支持RV64G 指令集子集的芯片环境移植并验证嵌入式软件工具链。
- 构建QEMU 与Docker 结合的仿真/构建流程，加速环境拉起并提升嵌入式软件栈可复现性。

自托管基础设施与Homelab 工程 | *Proxmox VE, WireGuard, Cloudflare*

2021年– 至今

- 基于Proxmox VE 构建All-in-One homelab，整合虚拟化、NAS 存储、内部应用与基础设施工具，实现资源集中管理。
- 配置OpenWrt 路由、VLAN 分段、WireGuard 多站点接入与Cloudflare DNS/Tunnel，提升远程访问安全性和网络韧性。
- 使用Docker Compose 编排模块化服务，简化自托管应用的部署、升级与生命周期管理。

学教在线一站式服务平台APP | *JavaScript, React Native, Android, Prototype Design*

2017年6月– 2018年6月

- 基于React Native 开发跨平台APP 与交互原型，用于扬州大学学生学工信息管理，支撑大创项目流程与后续软件著作权产出。

参与基金资助项目

- 科学技术部，国家重点研发计划，证券担保品估值及价差风险计量模型（项目编号：2023YFC3305402，6,640,000 元人民币），核心骨干，参与时间：2023年11月– 至今
- 科学技术部，国家自然科学基金面上项目，支持对抗样本防御的人工智能处理器架构研究（项目编号：62272459，540,000 元人民币），核心骨干，参与时间：2021年8月– 2022年12月
- 科学技术部，国家杰出青年科学基金，处理器安全体系结构（项目编号：62125208，4,000,000 元人民币），成员，参与时间：2021年8月– 2022年12月
- 教育部，国家级大学生创新创业训练计划项目，学教在线一站式服务平台APP（项目编号：201711117016Z，10,000 元人民币），负责人，参与时间：2017年6月– 2018年7月
- 江苏省教育厅，江苏省大学生创新创业训练计划项目，一主多从式智能视频监控装置的研发（项目编号：201711117060Y，5,000 元人民币），共同负责人，参与时间：2017年9月– 2018年7月

专业服务

学术服务

- WFBS 2024 Session Chair, ICIS 2024 Reviewer, ICME 2024 Reviewer

课程

- Web3和人工智能，2026年春季，清华大学EMBA，郦金梁教授，助教和主讲人

- 可持续发展与领导力, 2024年/2025年秋季, 清华大学, 郦金梁教授, 助教
- 计算机考研复试抄底厚黑学, 2022年/2023年/2024年春季, 线上, 主讲人
- 操作系统, 2017年秋季, 扬州大学, 邹姝稚副教授, 助教
- C 语言程序设计, 2015年秋季, 扬州大学, 邹姝稚副教授, 助教

会员

- ACM、IEEE、CCF、CACR、CSIG、INNS

技能与爱好

编程: PyTorch, Python, JavaScript, C++, Rust, PHP, Lua, Go, SQL, Prompt Engineering

极客: Linux, Docker, Network Operation, NAS, Router, All-in-One, OpenWrt, ESXi, Kubernetes, AWS, Cloudflare

语言: 英语 (流利), 日语 (基础), 普通话 (母语), 江淮官话 (母语), 粤语 (基础)

爱好: 历史, 写作, 剪辑, 收藏, 唱歌, 业余无线电 (BI1MYB), 游戏 (FPS, MMORPG)

其他经历

- 担任团支部书记兼班长, 带领50 余名班级成员推进党团建设、学术交流与班级凝聚
- 志愿组织并参与200 余场校园沙龙、文化与艺术活动
- 面向1000 余名本科生开展30 余场考研备考公益讲座
- 志愿参与分布式计算药物发现项目 (Folding@Home, BOINC)

邀请报告

- InnoTech 2026, 第一届创新与技术管理大会, 北京海淀, 2026年5月22日
- IEEE CSCWD 2026, 第二十九届IEEE 计算机支持协同设计国际会议, 线上, 2026年5月13日
- IEEE IJCNN 2025, 第三十四届IEEE 国际神经网络联合会议, 意大利罗马, 2025年7月5日
- IEEE CSCWD 2025, 第二十八届IEEE 计算机支持协同设计国际会议, 法国贡比涅, 2025年5月7日
- WFBS 2024, 第十三届世界金融与银行研讨会, 阿联酋阿布扎比, 2024年12月18日
- ACM KDD 2024, 第三十届ACM 知识发现与数据挖掘国际会议, 西班牙巴塞罗那, 2024年8月29日
- IEEE BIBM 2023, 第十七届IEEE 生物信息学与生物医学国际会议, 土耳其伊斯坦布尔, 2023年12月8日
- Inscrypt 2022, 第十八届信息安全与密码学国际会议, 线上, 2022年12月12日

资质证书

- [2024] 清华大学科研管理创新赋能计划 (业务提升方向)
- [2023] 北京红十字会, 救护技能证
- [2023] 和君商学院第十五届学员
- [2022] 谷歌云, MLOps 基础
- [2022] 希腊亚里士多德大学, 深度学习和计算机视觉编程短期课程和研讨会
- [2022] 微软, Azure基础(AZ-900) & Azure AI基础(AI-900)
- [2022] 英伟达, 基于Jetson Nano 构建视频AI 的端侧应用
- [2021] 机动车驾驶证
- [2018] 中国证券业协会, 证券从业人员资格
- [2024 & 2019 & 2017] 人力资源和社会保障部、工业和信息化部, 计算机技术与软件专业技术资格 (水平)
 - [2024] [高级] 系统架构设计师
 - [2019] [中级] 信息安全工程师
 - [2017] [中级] 信息系统监理师
 - [2017] [高级] 信息系统项目管理师
- [2016] 微软办公软件国际认证

荣誉

- [2022 & 2021 & 2020] 中国科学院大学学业奖学金 (8,000 元人民币* 3)
- [2021] 中国科学院大学优秀学生干部
- [2021] 首都大学、中职院校“先锋杯”优秀基层团支部书记
- [2021] 华为优秀校园大使
- [2021] 第十一届首都“互联网+”科技奖励竞赛优秀奖
- [2021] 寒武纪优秀开发者
- [2020] 2020 年社区新冠肺炎疫情防控优秀志愿者
- [2019] 扬州大学优秀毕业生
- [2018] 第三届江苏省“创青春”大学生创业大赛铜奖 (10,000 元人民币)
- [2018] 国家励志奖学金 (5,000 元人民币)
- [2017] 第四届中美青年创客大赛南京赛区优秀奖
- [2017] 易事特(SZ300376)助学金 (2,000 元人民币)
- [2017 & 2016] 扬州大学校长二等奖学金 (1,000 元人民币* 2)
- [2016] 东华测试(SZ300354)奖学金 (3,000 元人民币)
- [2015] 第四届江苏省信息安全技能竞赛学生组三等奖

最后更新于2026 年6 月