

# Chengze Du

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## EDUCATION

**Beijing University of Posts and Telecommunications(BUPT)**

Beijing, China

*Bachelor of Science in Information Security, School of Cyberspace Security*

*Sep. 2021 – Jun. 2025*

- Average Scores: 87/100 (GPA: 3.56/4)
- The Second Prize Scholarship (**top 15%**)

## REARCH INTERESTS

Network Tomography, Deep Learning, Differential Privacy, Artificial intelligence of things

## PUBLICATIONS & PATENTS

[1]**Chengze Du**, Guangzhen Yao at al. (2025). GuidedLatent: Defending VAEs against Membership Inference Attacks via Distribution-Guided Privacy. *International Joint Conference on Neural Networks (IJCNN 2025)*.

[2]**Chengze Du**, Zhiwei Yu, Xiangyu Wang (2025). Identification of Path Congestion Status for Network Performance Tomography using Deep Spatial-Temporal Learning. *Computer Communications (in press)*.

[3]**Chengze Du**, Jibin Shi, Hui Xu and Guangzhen Yao. (2025).SecureNT: Smart Topology Obfuscation for Privacy-Aware Network Monitoring. *International Conference on Intelligent Computing (ICIC 2025)*

[4]**Chengze Du**, Shengli Pan, Chengbo Jiao. (2024). End-to-End Identification of Network Path Congestion Status Based on Adversarial Autoencoders. *Chinese Patent*.(Substantive Examination)

## REARCH EXPERIENCE

**Undergraduate Research Assistant@BUPT**

Beijing, China

*Project 1:Identifying Path Congestion Status for Network Tomography with Deep Learning* Nov. 2023 – May. 2024

- **Description:** This project improves network tomography by introducing the concept of Additive Congestion Status to address limitations in accurately identifying congested network links. By integrating Adversarial Autoencoders (AAE) with Long Short-Term Memory (LSTM) networks, our method categorizes and quantifies congestion, leveraging spatio-temporal data to enhance link performance inference and congestion localization, outperforming traditional threshold-based algorithms.
- **Contributions:** Methodology, experiments, data analysis/visualization, writing
- **Achievements:** Authored and submitted the research paper as the first author, and applied for a patent as the primary inventor.

*Project 2: Adversarial Network Boolean Tomography*

*Jun. 2023 – Apr. 2024*

- **Description:** This project enhances network boolean tomography to detect and localize congestion attacks on network links. By employing multi-timeslot observations and optimizing the F-measure to reduce the False Negative Rate (FNR), our approach improves upon traditional methods, offering more accurate and robust monitoring of network congestion in adversarial environments.
- **Contributions:** Experiments, data analysis/visualization

## Work Experience

**Zhipu AI, AI Department**

Beijing, China

*Engineering Internship*

*Oct. 2024 – Jan. 2025*

## SKILLS

**Languages:** Python(Pytorch, Keras, Pandas, SciPy, SkLearn, etc.), C/C++, Bash, Latex

**Technologies/Frameworks::** NS-3 Network Simulator, Docker, Server Maintenance (Linux)

## MISC

**Interests:** Passionate about running, with personal bests of 21:21 for 5km and 1:45:28 for the half marathon.