

Wenlong Ding (Curriculum Vitae)

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EDUCATION

- The Chinese University of Hong Kong (CUHK)** Shatin, Hong Kong SAR, China
Ph.D. in Computer Science and Engineering 08/2021 – Present
- Research Topics: Machine Learning (ML) for network management
- Huazhong University of Science and Technology (HUST)** Wuhan, Hubei, China
B.E. in Computer Science and Technology (ACM class) 09/2017 – 06/2021
- GPA: 90.64/100 or 3.96/4.0 | Rank: Top 5%

RESEARCH PROJECTS

- Topic 1: ML for Network Traffic Management (Traffic Engineering)** 08/2021 – Present
- [Project 1] **Archie**: Efficient link restoration with ML in traffic engineering system.
 - [Project 2] **dNE**: Traffic engineering acceleration with ML.
- Topic 2: ML for Network Configuration Management** 04/2023 – Present
- [Project 1] **Xumi**: Automatic ACL configuration with natural language intents.
 - [Misc] Automatic network configuration knowledge base creation; automatic routing configurations...

PUBLICATION LIST

Conference Papers

[C2] **Wenlong Ding**, and Hong Xu. Dynamic Learning-based Link Restoration in Traffic Engineering with Archie. In *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM)*, 2024.

[C1] **Wenlong Ding**, Libin Liu, Li Chen, and Hong Xu. ABC: Automatic Bottom-up Construction of Configuration Knowledge Base for Multi-Vendor Networks. In *Proceedings of the Fifth IEEE International Conference on Cognitive Machine Intelligence (IEEE CogMI) (Invited Paper)*, 2023.

Posters

[P1] **Wenlong Ding**, Jianqiang Li, Zhixiong Niu, Huangxun Chen, and Hong Xu. Poster: Automating Network Configuration with Natural Language Intents. In *Proceedings of the ACM SIGCOMM 2024 Conference: Posters and Demos (ACM SIGCOMM Posters and Demos)*, 2024.

TEACHING EXPERIENCE

Teaching Assistants in CUHK

- CSCI4430 *Data Communication and Computer Networks*. Spring 2023; Fall 2023.
ENGG2020 *Digital Logic and Systems*. Fall 2022; Spring 2024.
CSCI3170 *Introduction to Database System*. Fall 2024.
ENGG1103 *Multivariable Calculus for Engineers*. Spring 2022.
ENGG2760 *Probability for Engineers*. Fall 2021.

HONORS AND AWARDS

06/2021	Excellent Undergraduate Thesis (3%), HUST
05/2021	Outstanding Graduate and Honours Bachelor's Degree (3%), HUST
09/2020	Merit Student (5%), HUST
12/2019	Outstanding Individual in University Students Innovation and Entrepreneurship Project, HUST
04/2019	Meritorious Winner, Mathematical Contest in Modeling (5%), COMAP, USA