

Feng Yu

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Ph.D. candidate in Computer Science

Education

Sep 2020 – Jun 2023(expected)	Master Candidate , Cyberspace Security, Fujian Normal University, Fuzhou, Fujian. Research interests : Privacy Protection, Federated Learning and related applications. Advisor : Prof. <i>Hui Lin</i> and Dr. <i>Xiaoding Wang</i> .
Sep 2016 – Jun 2020	Bachelor , Computer Science and Technology, Hunan University of Science and Technology, Xiangtan, Hunan GPA : 3.3/4.0, TOP 15%

Publications

- > **Feng Yu**, Hui Lin, Xiaoding Wang, et al. "Communication-Efficient Personalized Federated Meta-Learning in Edge Networks", submitted to IEEE Transactions on Network and Service Management (TNSM), Under review, 2022.
- > **Co-author**, "An Efficient Hybrid Deep Learning Model for Denial of Service Detection in Cyber Physical Systems", submitted to IEEE Transactions on Network Science and Engineering (TNSE), Minor revision, 2022.
- > Jianmin Liu, **Feng Yu**, Hui Lin, Xiaoding Wang, "SAGTR-A Sample and Aggregate Graph Spatial Temporal Network for Traffic Prediction", To be submitted, 2022.
- > **Feng Yu**, Hui Lin, Xiaoding Wang, et al. Blockchain-empowered secure federated learning system : Architecture and applications[J]. Computer Communications, vol. 196C, 2022, pp. 55-65.
- > **Feng Yu**, Qingxin Lin, Hui Lin, Xiaoding Wang, Privacy Enhanced Federated Learning Scheme based on Generative adversarial networks. Chinese Journal of Network and Information Security, Accepted, 2022.
- > **Co-author**, "Privacy-Enhanced Data Fusion for Federated Learning Empowered Internet of Things", Mobile Information Systems, 2022
- > As a **Contributor** to **Federated Learning for Future Intelligent Wireless Networks** included in **Deep Federated Learning Based on Knowledge Distillation and Differential Privacy** edited by Yao Sun, Chaoqun You, Gang Feng, and Lei Zhang, 2022.
- > **Feng Yu**, Hui Lin, Xiaoding Wang, An athletic headband, Chinese Patent. 2021.
- > **Co-author**, Three Software Copyrights, 2018.

Teaching

- > Computer Network, Teaching Assistant, 2020.09 – 2021.01.
- > Programming Experiment (**Data structure** and **C++ programming**), Teaching Assistant, 2017.09 – 2019.06.

Projects & Experiences

Sep 2022 Jun 2022	Software Development Intern, Lenovo Computer Technology Co. LTD, Shanghai <ul style="list-style-type: none">> Familiar with Git, Maven, Jenkins, shell and PowerShell script syntax, responsible for ESXI VM and LXCA installation automation script programming;> Understand the BMC, IPMI, Redfish and LXCA platforms, and understand the use of Jira and Bugzilla; Familiar with LXCA CFC project back-end code workflow, solve several bugs in CFC project;> Learn about the Dojo framework, Web programming : Add CFC Server prompt functionality; Understand the programming and development of Server Configuration Pattern function module;> Understand ELK, Kafka; Log platform deployment and Kafka performance optimization based on ELK+Kafka cluster (3 nodes); <div>Shell/Java/Python/Web programming</div> <div>BUG fix</div> <div>Log visualization module design</div>
Jun 2020 Dec 2019	Application of recommendation algorithm based on RL, HNUST, Undergraduate Graduation Design <ul style="list-style-type: none">> Python is used to extract preference features from movie data and apply it to recommendation;> The collaborative filtering algorithm is realized by matrix factorization, and recommendation is achieved by Bandit algorithm. <div>Reinforcement Learning</div> <div>Recommendation algorithm</div> <div>Python</div>
May 2019 Jun 2018	Service account development, HNUST, team leader <ul style="list-style-type: none">> Participate in the back-end development of the College's Alumni Association service account;> Responsible for the back-end development, front-end and back-end test docking and service launch of the Waku Yiren pilot mutual aid service account <div>Java/Web programming</div>

Jun 2018
Dec 2016

ACM-ICPC training team, HNUST, team member

- > Master **basic data structure**, such as stack, queue, linked list, binary tree, graph, and lookup set, tree array, line tree, bisect graph, etc.
- > Master **basic algorithms**, such as dichotomy, DFS, BFS, dynamic programming, shortest path algorithm, etc.

Data Structure Algorithm C++ Java Python

Languages

English : Reading ● ● ● ● ● CET-4 : 489
 Writing ● ● ● ○ ○ CET-6 : 432
 Listening ● ● ● ● ○ IELTS : 6.5
 Speaking ● ● ● ○ ○

Skills

Programming Language : C/C++, Python, Golang, Java, SQL, HTML, CSS, JavaScript, Bash.

Frameworks & Tools : Git, PyTorch, Numpy, Pandas, Scikit-learn, CUDA, Flask, ElasticSearch, Logstash, Kibana, Kafka, SpringBoot, React, Angular, Redis.

Certificates : Intermediate Software Designer

Selected Honors & Awards

- 2022 **Second-class Academic Scholarship** of Fujian Normal University.
- 2020 Outstanding Graduate of Hunan Province, Outstanding Graduate of HNUST.
- 2020 Outstanding Undergraduate Graduation Thesis of College.
- 2017 & 2019 National Encouragement Scholarship (**twice**), Outstanding Student Leader of HNUST.
- 2017 - 2019 First prize of HNUST(**twice**), Second prize of HNUST, Merit Student of HNUST(**twice**), College Merit Student Model.
- 2018 **Third prize** in Hunan Division of "Ladder Competition" of Chinese universities.
- 2018 Second prize of "Lanqiao Cup" Hunan Province (**twice**, C++ and Java).
- 2018 **Bronze Prize** of CCPC Invitational Competition and the 10th Xiangtan Program Design Competition.
- 2018 **First prize** of National College Students Electronic Creative Innovation Competition in the national preliminary competition, **Second prize** in the final competition.
- 2017 **Second prize** in Undergraduate programming competition of HNUST.
- 2015 **Second prize of Hubei Province** in National Mathematics League for High School Students.

Interests

Sports : Running, Climbing, Badminton, Table Tennis, Basketball, Extreme Sport.

Misc : Travelling, Writing and Learn new technologies, such as federated learning, continual learning, generative adversarial network, deep reinforcement learning, recommendation system and related applications.