



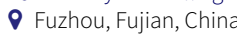



# Feng Yu

 ac.fzhiy.net  github.com/fzhiy  (+86) 18390216130  fzhiy270@163.com  
 Fuzhou, Fujian, China  2 Dec 1998, Dawu, Hubei, China

## Ph.D. candidate in Computer Science

**Bio.** I am now a third-year master student at College of Computer and Cyber Security, Fujian Normal University, working with Professor Hui Lin on Federated Learning and privacy protection.

**Research interests.** Recently, my research work covers several issues : **federated learning, blockchain, generative adversarial network, differential privacy and privacy-preserving**. Currently, I am interesting in variety of approaches for federated learning (Federated Graph Machine Learning, etc.) and related applications.

## Education

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


## 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. Under review. 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. Journal of Network and Information Security, Accepted, 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.
- > 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	<b>Software Development Intern, Lenovo Computer Technology Co. LTD, Shanghai</b> <ul style="list-style-type: none"><li>&gt; Familiar with Git, Maven, Jenkins, shell and PowerShell script syntax, responsible for ESXI VM and LXCA installation automation script programming;</li><li>&gt; 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;</li><li>&gt; Learn about the Dojo framework, Web programming : Add CFC Server prompt functionality; Understand the programming and development of Server Configuration Pattern function module;</li><li>&gt; Understand ELK, Kafka; Log platform deployment and Kafka performance optimization based on ELK+Kafka cluster (3 nodes);</li></ul> <div>Shell/Java/Python/Web programming</div> <div>BUG fix</div> <div>Log visualization module design</div>
Jan 2022 Dec 2021	<b>Lightweight key-value storage engine based on skip list, FJNU, Open source projects</b> <ul style="list-style-type: none"><li>&gt; C++ programming to achieve data increase, delete and change check, data display, file loading and database size display;</li><li>&gt;  <a href="https://github.com/fzhiy/MySkipList">github.com/fzhiy/MySkipList</a>.</li></ul> <div>Skip list</div> <div>Key-value database</div> <div>C++</div>
Jun 2020 Dec 2019	<b>Application of recommendation algorithm based on RL, HNUST, Undergraduate Graduation Design</b> <ul style="list-style-type: none"><li>&gt; Python programming is used to extract preference features from movie data and apply it to recommendation.</li><li>&gt; The collaborative filtering algorithm is realized by matrix factorization, and the recommendation is achieved by Bandit algorithm.</li></ul> <div>Reinforcement Learning</div> <div>Recommendation algorithm</div> <div>Python</div>

Jun 2018 | ACM-ICPC training team, HNUST, team member

- Dec 2016
- > Master the 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++

## Languages

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

## Skills

Programming Language :    *Familiar with C/C++ ,    Understand Golang, Python, Java.*

Programming Skills :    *Familiar with Git, Data Structure, STL, Object-Oriented Design, TCP、HTTP, Network Programming ,    Kafka, MySQL, Operation commands in Linux,  $\LaTeX$   
   Understand Principles of Operating System, Load Balance, High availability, HTML, CSS, JavaScript, Elasticsearch*

Redis :    *Familiar with Redis underlying data structure ,    Redis simple application*

Other Skills :    *Familiar with **Federated Learning** ,    Understand Recommendation System, Deep Reinforcement Learning, Blockchain*

Certificates :    Intermediate Software Designer

## 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.