





# Feng Yu

 ac.fzhiy.net  github.com/fzhiy  (+86) 18390216130  fzhiy270@163.com

## Ph.D. candidate in Computer Science

### 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. Advisor : Prof. <i>Hui Lin</i> and Dr. <i>Xiaoding Wang</i> .
Sep 2016 – Jun 2020	<b>Bachelor</b> , Computer Science and Technology, Hunan University of Science and Technology, Xiangtan, Hunan <b>GPA</b> : 3.3/4.0, <b>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 (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, A kind of sports hairband [P]. Utility model patent, Fujian Province : CN214904410U, 2021-11-30.
- > **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	<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; <b>Log platform deployment</b> 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>
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 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 recommendation is achieved by Bandit algorithm.</li></ul> <div>Reinforcement Learning</div> <div>Recommendation algorithm</div> <div>Python</div>
May 2019 Jun 2018	<b>Service account development, HNUST, team leader</b> <ul style="list-style-type: none"><li>&gt; Participate in the back-end development of the <b>College's Alumni Association service account</b>;</li><li>&gt; Responsible for the back-end development, front-end and back-end test docking and service launch of the <b>Waku Yiren pilot mutual aid service account</b></li></ul> <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.