

# 武汉大学 2023 中国政府来华留学卓越奖学金 电子信息专业

## 一、学院介绍

武汉大学计算机学院是中国最早建立的计算机科学院系之一，在人才培养，科学研究，社会服务等方面取得显著成效。学院现有软件工程、计算机科学与技术两个 A 类学科，2022 年计算机学科位列 ESI 全球排名前 0.67%。学院具有从学士、硕士、博士到博士后的完整人才培养体系，现有专任教师 178 人，其中教授 57 人，副教授 86 人，包括国家教学名师 1 人，国务院学科评议组成员 1 人，国字号人才 19 人（含 CJ 特聘教授、CJ 讲座教授、杰青、优青等）。

本项目部分导师及研究方向介绍：

- 王玉林，武汉大学计算机学院教授、博士生导师。他在英国伦敦大学获得博士学位，主持和参与了 20 多个国家和国际研究项目，并拥有 8 项专利。他的研究兴趣包括图像和视频处理、软件工程、信息安全和人工智能。近 10 年来，王教授出版了 1 本书、40 篇会议论文和 45 篇期刊论文。
- 梁鹏，武汉大学计算机学院教授、博士生导师。工学博士学位，从事软件体系结构和经验软件工程的研究，在国内外知名软件工程期刊和会议上发表论文 150 多篇，研究成果获得了 IEEE/TCSE 杰出论文奖。
- 刘娟，武汉大学计算机学院教授、博士生导师。她长期致力于机器学习方法及其在生物医药领域中的应用研究，发表了 200 多篇论文和两部著作。她目前的研究兴趣包括医学图像分析、医学信号分析、人工智能药物设计和人工智能生物合成等。

## 二、培养方案

武汉大学电子信息（软件工程方向）硕士项目是由武汉大学计算机学院主办的二年制全英文硕士学位项目。该硕士项目所有课程使用全英文教学，采用课程学习、学术讲座、企业考察参观、实践教学和学位论文相结合的培养方式。攻读本硕士学位项目的研究生，应获得不少于 32 学分的总学分。

- 课程学习不低于 26 学分。其中，学位课不少于 22 学分，包括公共必修课 10 学分、专业必修课 12 学分；选修课 4 学分，其中《行业发展前沿讲座》为必选课程，由学院邀请国内外著名大学教授或企业高级工程师介绍行业发展前沿。要求研究生参加讲座 4 次以上并撰写学习报告，由导师评定学习成绩。除课程学习和讲座外，第 1-2 学期，学院将安排赴小米等互联网 IT 企业参观实践。
- 必修环节 6 学分。
- 课程学习 1 学分为 16 学时，每学期课程安排如下：

学期	类型	课程	学分
第一学期	公共课	汉语综合	4 学分
		中国概况	2 学分
		信息检索	1 学分
		知识产权	1 学分
	专业必修课	现代沟通学	2 学分
		软件需求工程	2 学分
		专业外语	2 学分

	选修课	软件测试与实践	2 学分
第二学期	公共课	数学建模	2 学分
	专业必修课	现代软件架构	2 学分
		软件过程管理	2 学分
		面向对象的分析与设计	2 学分
		项目管理	2 学分
	选修课	行业发展前沿讲座	2 学分
		服务计算与软件服务工程	2 学分
		机器学习与模式识别	2 学分
JAVA 语言		2 学分	
第三学期	必修环节	专业实践	6 学分
		论文开题报告	
第四学期	论文答辩及颁发学位		

### 三、联系方式:

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# Wuhan University

## Chinese Government Youth of Excellence Scheme Scholarship Programs

### Master Program in Electronic Information (Software Engineering)

#### 1. School of Computer Science

School of Computer Science of Wuhan University is one of the earliest computer science departments in China and has achieved remarkable results in personnel training, scientific research, and social services. The school currently has two Class A disciplines of software engineering and computer science and technology (the fourth round of discipline evaluation by the Ministry of Education in 2017). In 2022, the computer discipline ranked among the top 0.67‰ of the ESI global ranking. The school has a complete training system ranging from bachelor's, master's, and doctorate to post-doctoral level talent cultivation. There are 178 full-time teachers (57 professors and 86 associate professors) including 1 national teaching master, 1 member of the State Council Disciplinary Evaluation Group, and 19 famous national talents (CJ Distinguished Professors, CJ Chair Professors, Distinguished Young Scholars, Excellent Young Scholars, etc.).

Introduction to some tutors in this program:

- Prof. Yulin Wang, full professor and PhD supervisor in the School of Computer Science, Wuhan University, China, obtained his PhD degree from University of London, UK. He has involved in more than 20 national and international research projects, and holds 8 patents. His research interests include image and video processing, software engineering, information security and artificial intelligence. In recently 10 years, Prof. Wang has published as first author 3 books, 40 conference papers and 45 journal papers.
- Peng Liang, Professor in the School of Computer Science, Wuhan University, China, obtained his PhD degree from Wuhan University. His research interests involve the areas of software architecture and empirical software engineering. He has published more than 150 articles in well-known international journals and conferences on software engineering. His work received the IEEE TCSE Distinguished Paper Award.
- Prof. Juan Liu, full professor and PhD supervisor in the School of Computer Science, Wuhan University, has been focusing on the research of machine learning methods and their applications in biomedicine, and has published more than 200 papers and two books. Her current research interests include medical images analysis, medical signals analysis, AI for drug design and AI for biosynthesis, etc.

#### 2. Curriculum Arrangement and Credit Requirements

The Master Program in Electronic Information (Software Engineering) is a two-year English-taught program sponsored by the School of Computer Science, Wuhan University. All courses of this master program are taught in English and the program adopts a cultivation mode that combines course study, academic lectures, company visits, practical teaching, and dissertation writing. Students pursuing this master program should obtain a total of no less than 32 credits.

- 26 credits of course study. Among them, degree courses take up no less than 22 credits,

including 10 credits of compulsory public courses and 12 credits of required professional courses; elective courses take up 4 credits , of which "Lectures on the Frontiers of Industry Development" is a compulsory course. The program will invite famous professors from universities or senior engineers from enterprises at home and abroad to introduce the frontiers of industry development. Students are required to attend more than 4 lectures and write a study report, and the tutor will evaluate their academic performance. In addition to course study and lectures, the program will arrange students to visit Xiaomi and other Internet IT companies for practice in the first and second semester.

- 6 credits of compulsory courses.
- The course schedule for each semester is as follows:

Type	Course	Hours	Credit	Semester	
Public Course	Comprehensive Chinese	64	4	1	
	Overview of China	32	2		
	Information Retrieval	16	1		
	Intellectual Property	16	1		
Compulsory Course	Modern Communication	32	2		
	Software Requirements Engineering	32	2		
	Specialized Foreign Languages	32	2		
Selective Course	Software Testing and Practice	32	2		
Public Course	Mathematical Modeling	32	2		2
Compulsory Course	Modern Software Architecture	32	2		
	Software Process Management	32	2		
	Object-oriented Analysis and Design	32	2		
	Project Management	32	2		
Selective Course	Frontier Lectures on Industry Development	32	2		
	Service Computing and Software Service Engineering	32	2		
	Machine Learning and Pattern Recognition	32	2		
	JAVA Language	32	2		
Compulsory	Professional Practice	32	6	3	
	Dissertation Proposal Report				
	Thesis defense and degree awarding			4	

### 3. Contact

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