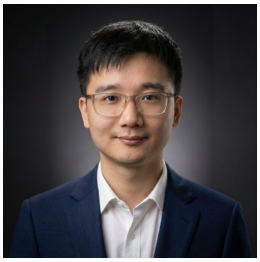
澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU

應用物理及材料工程研究院
INSTITUTO DE FÍSICA APLICADA E ENGENHARIA DE MATERIAIS
INSTITUTE OF APPLIED PHYSICS AND MATERIALS ENGINEERING

University of Macau – Qu Sichao Research Group
Recruitment: Fully Funded PhD and Postdoctoral Positions

Principal Investigator



Dr. Sichao QU

Assistant Professor (Incoming)

Institute of Applied Physics and Materials Engineering (IAPME)

University of Macau

Dr. Sichao Qu will be joining the University of Macau's IAPME as an Assistant Professor. He previously served as a Research Assistant Professor in the Department of Mechanical Engineering at the University of Hong Kong since 2024. Dr. Qu obtained his bachelor's degree in Physics from Nanjing University and his Ph.D. from the Department of Physics at the Hong Kong University of Science and Technology (supervised by Professor Ping Sheng), where he received the HKUST Redbird Research Excellence Award (2022). He subsequently completed his postdoctoral research in the Department of Mechanical Engineering at the University of Hong Kong (supervised by Professor Nicholas X. Fang), during which he was awarded the Doris Zimmern HKU-Cambridge Hughes Hall Fellowship (2024) to serve as a visiting affiliated researcher at the University of Cambridge.

Dr. Qu's research findings have been published in numerous top-tier international journals, including Physical Review Letters (Editors' Suggestion and Featured in Physics), Science Advances (ESI Highly Cited Paper), Nature Communications, and Proceedings of the National Academy of Sciences. His work has been featured in media outlets such as APS Physics Magazine, TechXplore, and Mirage News. He also serves as a member of the Early Career Editorial Board for several international journals, including APS Open Science.

✧ ORCID：https://orcid.org/0000-0002-9962-3691

✧ Google Scholar：https://scholar.google.com/citations?user=0dOO4XYAAAAJ&hl=en

Research Directions

The research group's interests include, but are not limited to, the following areas:

- Physical Acoustics, Underwater Acoustics, and Ultrasonics
- Acoustic and Mechanical Metamaterials, and Multiphysics Coupling
- Novel Wave Manipulation and Meta-devices

PhD Student Recruitment

We are currently recruiting fully-funded PhD students for admission in 2027 (application deadline: January 2027). Successful applicants will receive one of the following funding packages:

- UM PhD Teaching Research Assistantship: MOP 12,500–14,000 per month
- UM PhD Scholarship: MOP 20,000 per month

Postdoctoral Recruitment

Postdoctoral positions are open year-round on a rolling basis:

- UM Postdoctoral Fellowship: MOP 28,000–40,000 per month
  (Macau's tax rate is extremely low, approximately 6%)

Priority will be given to candidates who have obtained their Ph.D. within two years prior to the application deadline (approximately January 2027), or who are expected to graduate within six months after the deadline. Inquiries regarding other postdoctoral funding schemes are also welcome.

Group Advantages

1. The supervisor remains actively engaged at the forefront of scientific research, dedicating time to communicate with and mentor students, while continuously tracking research progress to help members avoid unnecessary detours. Training is tailored to each student's research background and individual characteristics, with an emphasis on research output, fostering independent thinking, and cultivating sound research judgment and rigorous academic discipline.
2. The group maintains a relaxed and open atmosphere that embraces exploration and tolerates mistakes, encouraging students to grow through trial and refinement. Emphasis is placed on developing independent problem-solving abilities and sustained research passion, while also valuing a healthy work-life balance.
3. The group has established an extensive network of academic collaborations, forming substantive partnerships with leading co-supervisors and internationally renowned academic institutions both domestically and abroad, based on experimental needs and complementary expertise. Strong emphasis is placed on cultivating members' collaborative spirit and international perspective.
4. The supervisor places great importance on and actively supports the future career development of PhD students and postdoctoral researchers, respecting each individual's personal aspirations. Whether students choose to pursue careers in academia or industry, the supervisor provides corresponding resources and support tailored to their goals.

Candidate Requirements

We welcome highly self-motivated applicants from the following academic/professional backgrounds:

- Physics, Applied Physics, Acoustics, or Mechanics
- Underwater Acoustic Engineering, Ocean Engineering, Biomimetic Materials and Devices
- Electrical, Electronic, Aerospace, or Civil Engineering
- Mechanical Engineering, Naval Architecture/Marine Engineering, Materials Science and Engineering
- Computational Science, Applied Mathematics, and other related disciplines

Applicants should possess one or more of the following qualifications:

- A solid theoretical foundation in physics, underwater acoustics, ultrasonics, elastic waves, electromagnetic waves, or related interdisciplinary fields
- Proficiency in numerical computation tools, such as COMSOL, MATLAB, and AI-assisted programming

- Experience in acoustic experiments, such as sound field measurement, vibration signal acquisition and post-processing
  (Candidates with experience in circuit system control and experimental platform setup will be given priority)

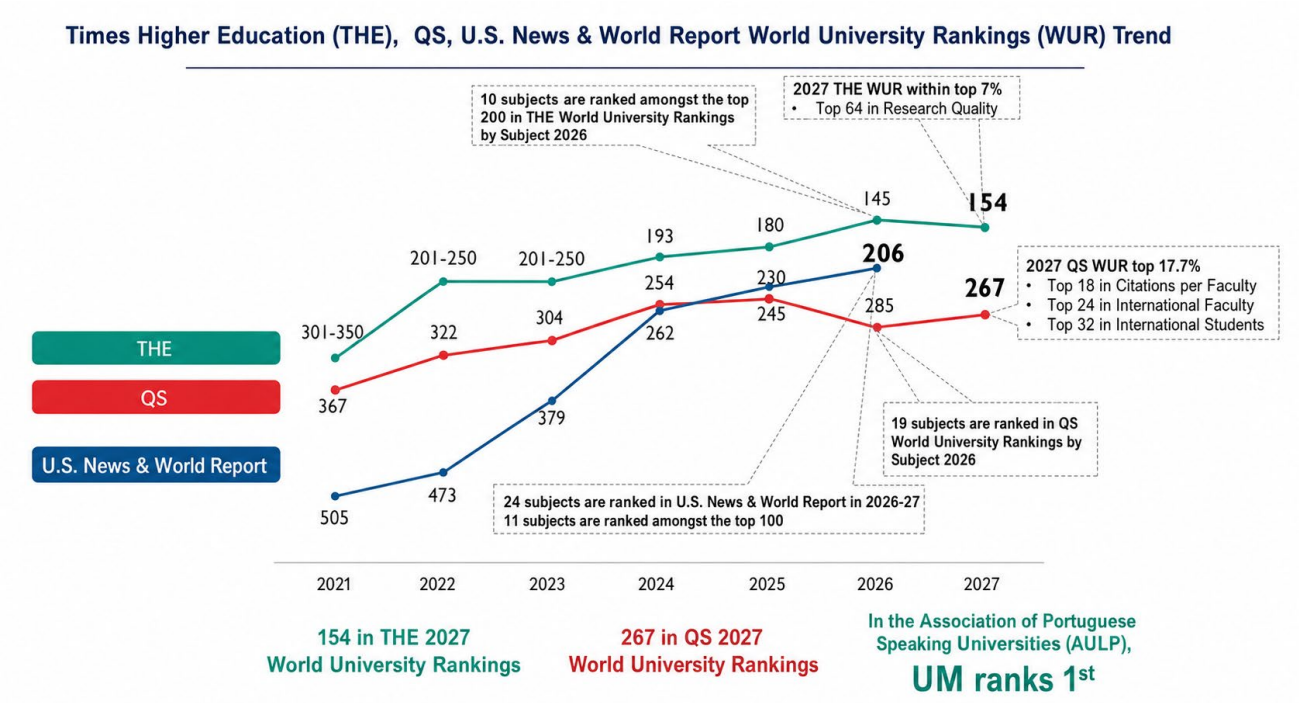
Contact Information (Always Open)

Interested applicants should submit the following via email: 1) a CV/resume; 2) academic transcripts; 3) proof of awards/honors (if applicable). Contact: qsc4977@gmail.com or squ@connect.ust.hk (the supervisor's University of Macau email has not yet been activated).

Please use the email subject line "Applicant's Name – Position Applied For," and briefly describe your research experience and future interests, including the names and contact information of any referees (if available). The supervisor is eager to find talented candidates, and applicants whose backgrounds are a good match will receive an invitation for an online interview within one week, with the interview time to be arranged accordingly.

About the University of Macau

The University of Macau (UM) is the top-ranked (and only) public comprehensive university in the Macau Special Administrative Region. UM is currently constructing a new campus in the Hengqin Guangdong-Macao In-Depth Cooperation Zone (covering an area of approximately 375,600 square meters), forming a new "one university, two campuses" development model. Since December 2023, the University of Macau has officially become a member of the C9+ Alliance. UM's recent rankings are listed below (the university is currently in a phase of rapid development):



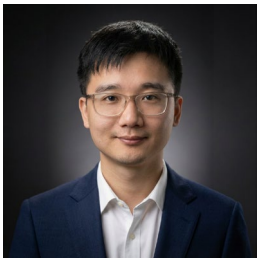
In addition, the Institute of Applied Physics and Materials Engineering (IAPME), established in 2014, is dedicated to conducting internationally leading frontier research. The institute has a total floor area of approximately 7,000 square meters and houses research equipment valued at over HKD 120 million. IAPME's research strength is also reflected in international rankings, including a global ranking of 51–100 in Condensed Matter Physics, and a position among the top 1% globally in Materials Science according to ESI standards.

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澳门大学-屈思超课题组招聘：全奖博士和高薪博后

导师简介



屈思超 博士

助理教授（即将入职）

应用物理与材料工程研究院（IAPME）

澳门大学

屈思超博士即将担任澳门大学 IAPME 助理教授。此前，他于 2024 年起担任香港大学机械工程系研究助理教授。屈博士本科毕业于南京大学物理学专业，博士毕业于香港科技大学物理系（合作导师：Ping Sheng 教授），获得香港科技大学 Redbird Research Excellence Award (2022)。随后，他在香港大学机械工程系完成博士后研究（合作导师：Nicholas X. Fang 教授），曾获得 Doris Zimmern HKU-Cambridge Hughes Hall Fellowship (2024) 资助，赴剑桥大学任访问兼职研究员。

屈博士的研究成果已发表于多个顶级国际期刊，包括 Physical Review Letters（编辑推荐及 Featured in Physics）、Science Advances（ESI 高被引论文）、Nature Communications 以及 Proceedings of the National Academy of Sciences 等。他的研究成果曾被 APS Physics Magazine、TechXplore 和 Mirage News 等媒体报道。他还担任多个国际期刊（如 APS Open Science）的青年编委会成员。

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✧ 谷歌学术：https://scholar.google.com/citations?user=0dOO4XYAAAAJ&hl=en

研究方向

课题组的研究兴趣包括（但不限于）：

- 物理声学、水下声学和超声
- 声学、力学超材料和多物理场耦合
- 新型波动控制和超构器件

博士生招聘

现招募 2027 年入学的全奖博士生（截止日期 2027 年 1 月），成功申请者将会获得以下资助方案之一：

- 澳大博士生教研助学金(**UM PhD Teaching Research Assistantship**)：
  每月 12,500-14,000 澳门元
- 澳大濠江博士奖学金(**UM PhD Scholarship**)：
  每月 20,000 澳门元

博士后招聘

博士后职位常年招募（滚动招收）：

- 澳大濠江博士后奖学金：每月 28,000 - 40,000 澳门元
  （澳门税率极低，约为 6%）

优先考虑在申请截止日期（约 2027 年 1 月）前两年内取得博士学位，或预计在截止日期后六个月内毕业的候选人，也欢迎咨询其他博士后资助方案。

课题组优势

1. 导师长期处于科研一线，愿意沟通并投入时间教授科研经验，持续跟进研究进度，帮助成员少走弯路。在培养上，根据学生的科研背景与个人特点因材施教，以科研产出结果为导向，引导独立思考，树立正确的科研品味和严谨的学风。
2. 课题组氛围宽松，倡导开放探索与容错文化，鼓励学生在尝试与修正中成长，注重培养独立解决问题的能力和持久的科研热情，同时注重科研与生活的平衡。
3. 课题组具有广泛的学术合作网络，根据实验需求和专业互补，与国内外顶级合作导师及国际知名学术机构建立实质性合作，注重培养成员的合作意识与国际视野。
4. 导师高度重视并支持博士生和博士后的未来职业规划。澳门大学属于境外单位，在澳门取得优秀成果者，可参考 IAPME 已有成功先例，根据国家海外人才政策，依托内地单位推荐申报国家自然科学基金海外优秀青年科学基金（海外优青）或其他海外经历补贴项目。同时尊重学生的个人志向，无论是继续深耕学术界还是进入工业界，导师均会结合学生意愿提供相应资源与支持。

候选人要求

我们欢迎来自以下专业/学术背景、并且自驱力强的申请者：

- 物理学、应用物理学、声学或力学
- 水声工程、海洋工程、仿生材料与器件
- 电气、电子、航空航天或土木工程

- 机械工程、船舶工程、材料科学与工程
- 计算科学、应用数学和其他相关学科

申请者应具备以下一项或多项资质：

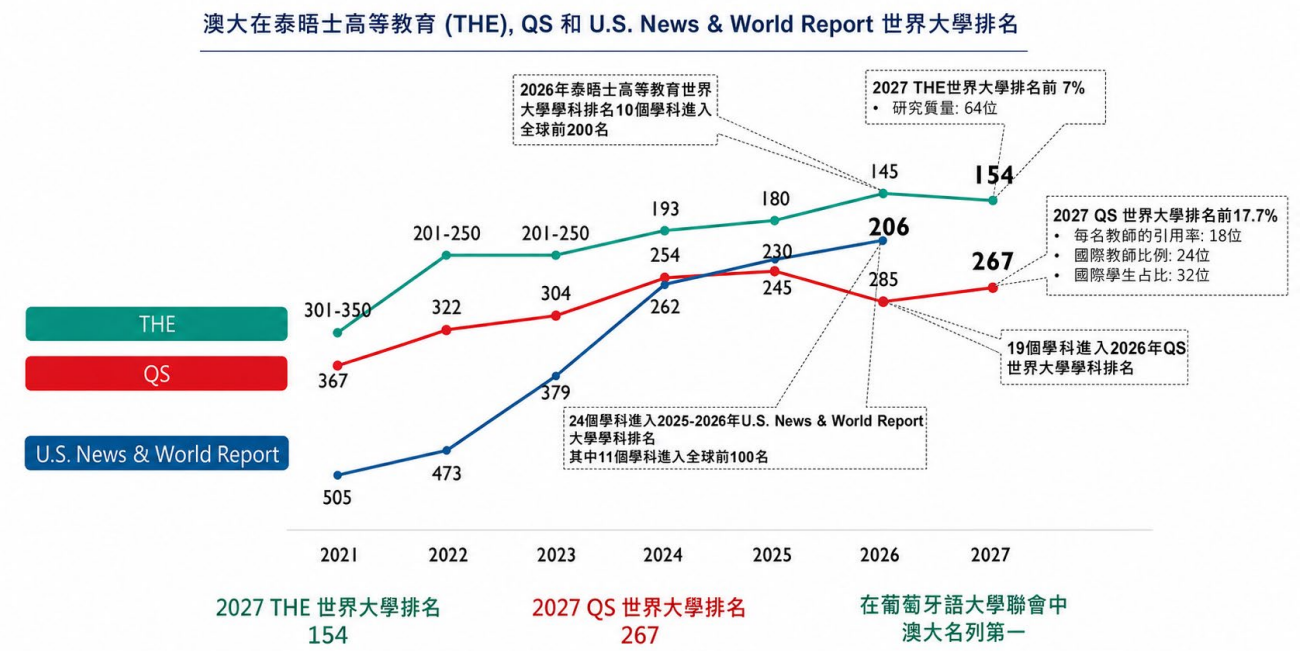
- 在物理、水声、超声、弹性波、电磁波或相关交叉领域具有较好的理论基础
- 熟练掌握数值计算工具，如 COMSOL、MATLAB 及 AI 辅助编程等
- 具备声学实验经历，如声场测量、振动信号采集和后处理等
  （拥有电路系统控制和实验平台搭建经验者将被优先考虑）

联系方式（长期有效）

有意申请者，请通过邮件提交：1）个人简历；2）成绩单；3）获奖证明（如有）。联系方式：qsc4977@gmail.com 或 squ@connect.ust.hk（导师的澳门大学邮箱还没开通）。
邮件标题可写明“申请人的姓名-申请岗位”，请简要陈述研究经历和未来兴趣，提及推荐人姓名和联系方式（如有）。导师求贤若渴，背景匹配者将 1 周内收到网络面试邀请，协商面试时间。

关于澳门大学

澳门大学（UM）是澳门特别行政区 TOP1 公立综合性大学（唯一），现正于横琴粤澳深度合作区建设新校区（占地约 37.56 万平方米），形成“一校两区”办学新格局。自 2023 年 12 月起，澳门大学正式成为 C9+联盟成员，近期澳门大学排名如下（处于飞速发展阶段）：



另外，应用物理与材料工程研究院（IAPME）成立于 2014 年，致力于开展国际领先的前沿研究，总建筑面积约 7,000 平方米，拥有价值超过 1.2 亿港元的科研设备。其科研实力也体现在国际排名中，包括**凝聚态物理**全球排名处于 51-100 区间，材料科学学科按 ESI 标准位列**全球前 1%**。