



上海科技大学
ShanghaiTech University



学院区中轴线

上海
科技大学



位于中国改革开放最前沿的上海浦东



服务国家经济社会发展战略，培养科技创新创业人才



建设一所小规模、高水平、国际化的研究型、创新型大学

学校基本情况

体制

上海市与中科院共同举办，上海市主管，全日制普通高校

区位

张江高科技园中区，与上海同步辐射光源、国家蛋白质科学研究（上海）设施、中科院上海高等研究院、上海微小卫星工程中心等融为一体，与张江高新区的产业界、投资界有机衔接

校园

占地约900亩，总建筑面积约70万平方米（含地下建筑约15万平方米），2016年全面投入使用

院所

四个学院：物质科学与技术学院、生命科学与技术学院、信息科学与技术学院、创业与管理学院，针对中国在能源、材料、环境、生物医药、信息科技、创新创业等领域的发展战略需求，开展人才培养和原创科研
两个研究所：免疫化学研究所、iHuman研究所，聚焦生物医药研发

学生

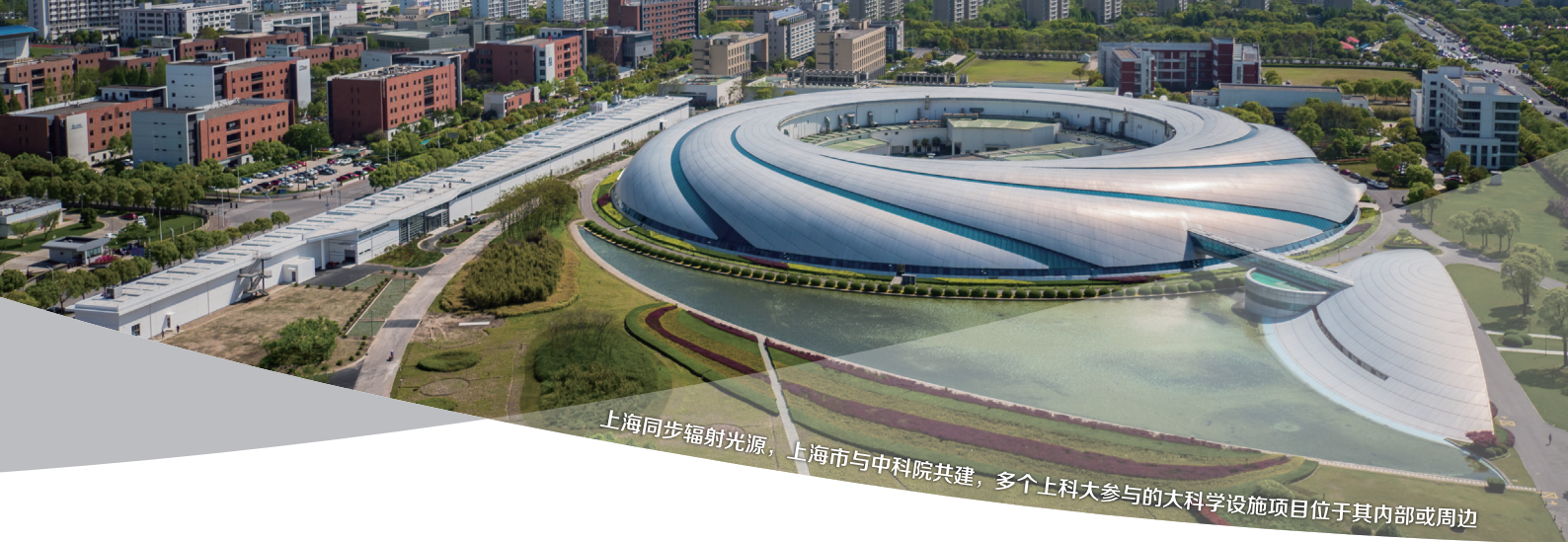
规划本科生2000名、研究生4000名。现有本科生848名，硕士生1064名，博士生202名

师资

规划常任教授500位、特聘教授500位。常任教授全球招聘，实行Tenure System；特聘教授主要来自于中科院上海分院科研院所优秀科学家，以及一批国内外著名学者
现有常任教授146位、特聘教授291位，含诺贝尔奖获得者3位、美国国家科学院院士6位、英国皇家学会院士2位、中国科学院院士26位、中国工程院院士3位、“中央千人”24位、“外专千人”2位、“上海千人”14位、“青年千人”35位、“杰青”95位



校园航拍全景



上海同步辐射光源，上海市与中科院共建，多个上科大参与的大科学设施项目位于其内部或周边

服务国家战略

科创中心建设

作为上海科创中心建设的一支重要力量，参与张江综合性国家科学中心建设，与中科院等单位合作，牵头或参与建设软X射线自由电子激光用户装置、活细胞结构和功能成像等线站工程、超强超短激光实验装置、上海光源二期线站工程，牵头硬X射线自由电子激光装置的规划与建设，承担“多空间多时间尺度生物成像平台”“机器学习与虚拟现实平台”等科创中心建设重点工作

科研发展布局

聚焦国家经济社会发展亟需、且缺乏核心技术和创新能力的领域

- **物质学院**：系统材料学、材料生物学、光子科学与凝聚态物理、大科学装置科学技术
- **生命学院**：神经科学、免疫学、分子与细胞生物学、系统生物学及生物大数据、分子影像技术、干细胞与再生医学
- **信息学院**：计算机科学技术、电子科学与技术、信息与通信工程、应用数学
- **创管学院**：行为金融与金融经济、创新创业与经济发展、行为科学
- **免化所**：免疫化学及抗体药物研发
- **iHuman**：人体细胞信号转导及相关药物研发

高端原创科研

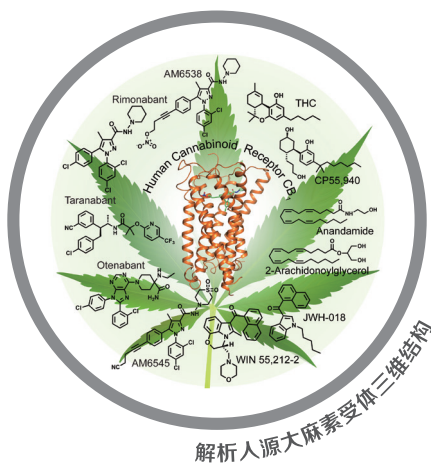
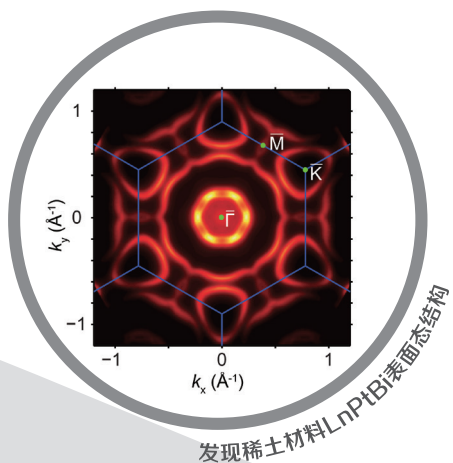
同时开展教授个体科研和围绕重大目标的团队科研，已成立124个研究组，2016年参与发表论文439篇，其中上科大第一单位197篇，“解析人源大麻素受体三维结构”（入选“2016上海十大科技事件”）等重大成果不断涌现

科教融合

与中科院上海分院各研究院所全面合作，参与国家级科研攻关项目，建设联合实验室，2016年取得“超强超短激光实验装置实现5拍瓦激光脉冲输出”等重大成果

产教融合

与多家国内外知名高科技企业合作，致力于产学研融合多赢发展，构建科技进步驱动产业发展的完整创新价值链



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诺奖得主James Rothman（左二）、校长江绵恒（中）、创业家Elon Musk（右二）共话创新

培养科创人才

本研招生

本科生招生

2014年首招，2016年录取355名，2017年拟录取350名。“综合评价”创新模式，本科专业为物理学、化学、材料科学与工程、生物科学、电子信息工程、计算机科学与技术

研究生招生

2013年首招，2016年录取432名（中科院联培）；2017年起在物理学、化学、生物学、材料科学与工程、电子科学与技术、信息与通信工程、计算机科学与技术7个一级学科独立招收和培养硕士和博士研究生，2017年已招收硕士研究生465名、博士研究生200名

本科生培养

培养定位

宽口径、厚基础、小规模、国际化，通（通才教育）、专（专业人才）、新（创新创业）
培养方案（149学分）：专业教育（60）+通识教育（79）+个性化教育（10）
学院+书院分工协作培养人才：学院侧重于专业能力，书院侧重于综合素质

专业教育

课程体系和标准接轨世界一流大学，选用国际经典教材，构建坚实专业知识能力体系

通识教育

数学、物理、化学、生物、工程必修核心课，打下深厚理工科基础；中华文明、世界文明、科技文明、马克思主义基本原理必修核心课，培养端正世界观和宽广文明视野

双创教育

设计思维必修核心课，传授最前沿的创新创业方法论；社会实践、产业实践、科研实践、创业实践、毕业设计，覆盖本科四年，锻炼多维度的创新创业能力

书院制培养

每位本科生配备导师（学院教授担任），定期见面开展活动，多方面给予指导；博雅讲座、体验活动、兴趣社团培养综合素质和能力

国际化培养

国际化师资、国际化课程、海外暑期课程项目、3+1国际交流项目，合作院校包括哈佛、加州伯克利、麻省理工、牛津、芝大、宾大、南加大、帕多瓦等

重要进展

本科课程教学在新校园全面开展，2015年开展首次社会实践（全体14级本科生参与），2016年88名本科生海外游学

研究生培养

培养定位

博士项目（为主）培养从事原始创新和独立科研的研究型人才
硕士项目培养从事高技术创新和新兴产业创业和管理的应用型人才

培养模式

一级学科制定培养方案、本硕博课程贯通、实验室轮转、责任导师与导师指导小组制、严格的博士资格考试、校所联合培养、国际化培养

重要进展

2016年首届中科院联合培养硕士生顺利毕业，整体就业升学率100%





The Central Axis of the Campus

ShanghaiTech
University

ShanghaiTech University was jointly established by Shanghai Municipal Government and Chinese Academy of Sciences (CAS) in 2013. It is a research university focuses on science and engineering, striving to create an eco-system where innovative research, education, and industry meet to provide a multi-disciplinary approach to learning and to solving national and global challenges. Leveraging the research strength of CAS and the entrepreneurial spirit of Zhangjiang Science and Technology City, ShanghaiTech is completing a state-of-the-art research infrastructure and has formed a network of research alliances with nearby facilities such as CAS Shanghai Advanced Research Institutes, Shanghai Synchrotron Radiation Facility, National Center for Protein Science Shanghai, and Shanghai Engineering Center for Microsatellites.

BASICS



STUDENT

- 2,000 undergraduate students (848 by Jul 2017)
- 4,000 graduate students (1,266 including 202 PhD students by Jul 2017)



FACULTY

- 500 tenured/tenure-track faculty members (146 by Jul 2017)
- 500 Professors-in-Residence (291 by Jul 2017)

ShanghaiTech is building a top-notch faculty team, among whom are **3** Nobel laureates, **6** National Academy of Sciences (USA) members, **2** Royal Society (UK) fellows, **26** CAS members and **3** members of Chinese Academy of Engineering. **16%** of the current tenured/tenure track faculty members are non-Chinese.



SCHOOLS

- School of Physical Science and Technology (SPST)
- School of Life Science and Technology (SLST)
- School of Information Science and Technology (SIST)
- School of Entrepreneurship and Management (SEM)
- School of Creative Art (in preparation) (SCA)

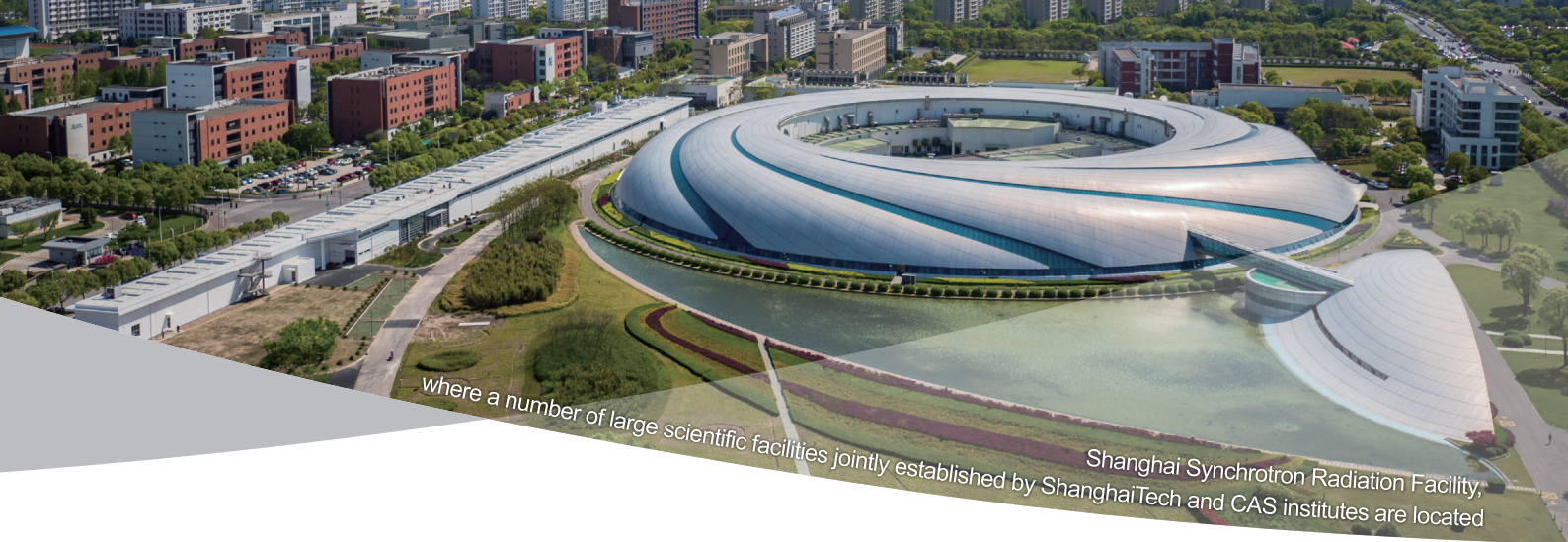


INSTITUTES

- Shanghai Institute for Advanced Immunochemical Studies (SIAIS)
- iHuman Institute (iHuman)



The Panoramic View of the Campus



where a number of large scientific facilities jointly established by ShanghaiTech and CAS institutes are located

Shanghai Synchrotron Radiation Facility, ShanghaiTech and CAS institutes are located

RESEARCH

SERVING NATIONAL STRATEGY

ShanghaiTech plays a key role as an intellectual powerhouse shaping Zhangjiang Comprehensive National Science Center. The university works in partnership with CAS institutes to establish a number of large scientific facilities including Soft X-ray Free Electron Laser Facility, Live Cell Imaging Facility, Ultra-Intense and Ultrashort Pulse Laser Facility, Shanghai Synchrotron Radiation Facility Phase II Beam Lines and Hard X-Ray Free Electron Laser Facility. ShanghaiTech also contributes to setting up Multi-Dimensional Biomedical Imaging Platform and Machine Learning and Visual Reality Platform.

RESEARCH PROGRESS

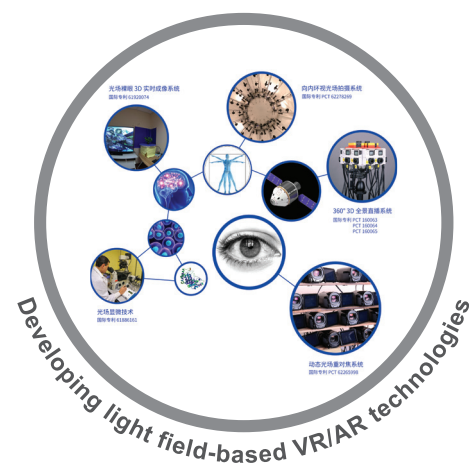
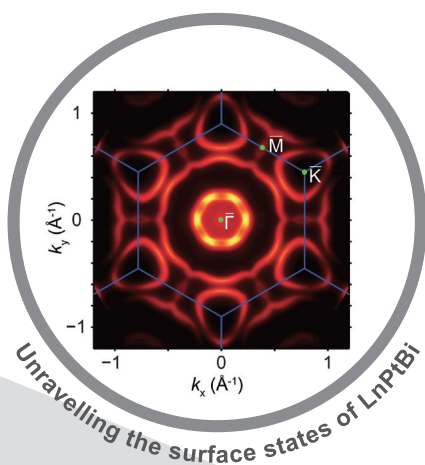
ShanghaiTech encourages both fundamental research by individual professors and goal-driven “megaprojects” by large research teams. 124 research groups have been set up, and in 2016 a significant number of papers have been published, some of them in top journals such as *Cell*, *Nature Materials* and IEEE journals. Major research findings have been made, including “Resolution of human marijuana receptor’s 3D structure” (selected as one of the Ten Hot Events of Science and Technology in Shanghai in 2016).

RESEARCH AREAS

- SPST:** System Materials, Material Biology, Photonics and Condensed Matter Physics, Large Scientific Facilities
- SLST:** Neurosciences, Immunology, Molecular & Cellular Biology, Molecular Imaging, Systems Biology and Big Biological Data, Stem Cell Biology and Regenerative Medicine
- SIST:** Computer Science and Technology, Electronic Science and Technology, Communication Engineering, Applied Mathematics
- SEM:** Behavioral Finance and Financial Economy, Entrepreneurship and Economic Development, Behavioral Science
- SIAIS:** Immunochemistry and Antibody Drug Development
- iHuman:** Human Cell Signaling and Drug Discovery

SYNERGIES OF EDUCATION, SCIENCE & INDUSTRY

ShanghaiTech teams up with CAS institutes to establish joint labs and undertake national research projects. The University also collaborates closely with domestic and international high-tech companies to boost interaction between academia and industry.





From Left to Right: Nobel Laureate James Rothman, ShanghaiTech President Jiang Mianheng, CEO of Tesla Motors and SpaceX Elon Musk

EDUCATION

Overview

ShanghaiTech adopts student-centered education approach to nurture future leading scientists, inventors and entrepreneurs with moral integrity, academic capabilities and innovative spirits. Every faculty member is required to teach undergraduate/graduate courses.

Undergraduate Program

Admissions

ShanghaiTech enrolls students ranking among the top in the University Entrance Examination and evaluate all-round quality of prospective students by all day in-person interviews.

Required courses for Major

Taught in both Chinese and English with original English language textbooks in accordance with international standards.

General Education

All students are required to take 11 Fundamental Science Courses, including mathematics, physics, chemistry, biology and engineering, and a wide range of Liberal Arts Courses. Students are also encouraged to take minors in Finance and in Innovation & Entrepreneurship.

Residential College

At ShanghaiTech, residential college is designed to ensure students' holistic personal development and promote interdisciplinary communication. Faculty members serve as advisors providing consultation and support for students' daily concerns and academic problems, and lead workshops, clubs and various extracurricular activities.

International Exchange

ShanghaiTech is actively engaged in education globalization and has extensive collaboration with UC Berkeley, University of Chicago, MIT, Harvard and Yale University, etc. in the field of faculty and student exchange, course sharing and joint research. Approximately 40% of undergraduates have study abroad experience through "3+1" Study Abroad Programs and summer sessions.

Graduate Program

Graduate students are expected to be highly skilled at independent and innovative research, found start-up companies or work in technical and management positions in high-tech industries. 70-80% of ShanghaiTech graduate students come from 38 top universities in China. In 2016, all of the first graduating class of the Master's degree have found employment or are continuing their studies in China or abroad.

