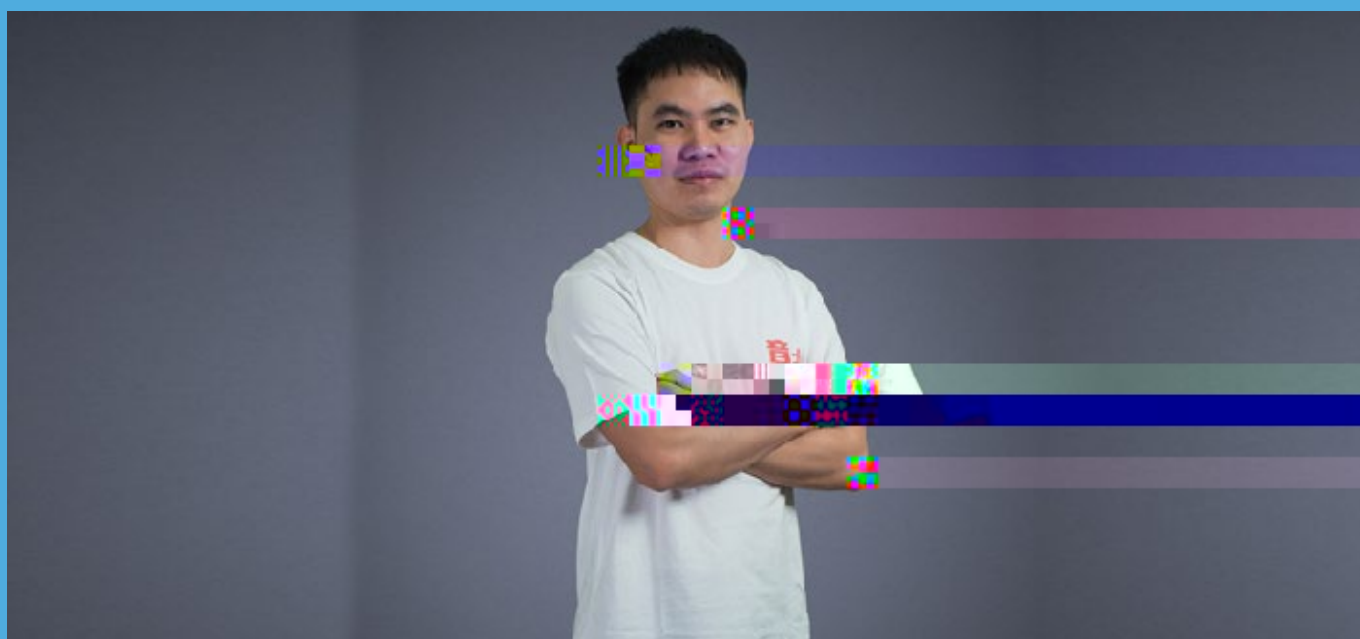




SCUT Newsletter



1. Chen Guoqiang, entrepreneur from SCUT, entered the Forbes' list of Asian elites under 30

30

On April 2, Forbes released the 2020 list of "30 under 30" (30U30) in Asia. Chen Guoqiang, the co-founder (CTO) of Guangzhou Yinshu Technology Co., Ltd. from the innovation and entrepreneurship incubator of SCUT, was on the list. He was also selected as one of Forbes China's "30U30" in 2019.

"30 30
CTO

30U30

2019

Having graduated from the School of Software Engineering, SCUT, Chen Guoqiang and his team won various awards including the national gold prize of the China College Students' Entrepreneurship Competition in 2018 and the silver prize of the 5th China College Students' "Internet + Innovation and Entrepreneurship" in 2019.

2018

2019

In 2016, the Yinshu Technology team entered the innovation and entrepreneurship incubator of SCUT. In 2017, Guangzhou Yinshu Technology Co., Ltd. was established to improve the communication status of hearing-impaired groups with speech impediments by means of Internet Plus artificial intelligence technology and by creating a service platform. Currently, the company's products and services include accessible communication software, speech rehabilitation software, information accessibility solutions, an intelligent subtitle shorthand system, and sign language services. Presently, Yinshu Technology has more than 10 patents.

No. 序号	Demonstration Bases 示范基地	Score 得分	
1	Tsinghua University 清华大学	92.3	
2	Fudan University 复旦大学	88.7	
3	Harbin Institute of Technology 哈尔滨工业大学	88.5	
4	Huazhong University of Science and Technology 华中科技大学	87.3	
5	Zhejiang University 浙江大学	86.8	
6	Nanjing University 南京大学	86.3	
7	Central South University 中南大学	86.3	
8	Shanghai Jiao Tong University 上海交通大学	85.8	
9	South China University of Technology 华南理工大学	85.6	
10	Nanjing University of Science and Technology 南京理工大学	85.5	
11	Xidian University 西安电子科技大学	85.4	
12	Sichuan University 四川大学	85.4	

2. SCUT selected as one of the top 10 National Mass Innovation and Entrepreneurship University Demonstration Bases

On April 7, the China Association for Science and Technology released the evaluation results of the 2019 Mass Entrepreneurship and Innovation Demonstration Base. SCUT, Tsinghua University, Fudan

University, and Harbin Institute of Technology were among the universities selected as the top 10 university bases.

2019

In the 2019 Construction and Progress Evaluation Report of the Mass Innovation and Entrepreneurship Demonstration Bases jointly issued by the China Association for Science and Technology and the National Development and Reform Commission, SCUT was highly praised for its practice as follows: First, it has created an innovation and entrepreneurship ecosystem to provide faculty and students with all-round services including business registration, project declaration, enterprise management skills training, legal consultation and patent agency. Second, it has successfully applied for the special support project for industrialization of achievements, relying on the Innovation Park of National University Science Park located off the campus. Third, it has built an incubation and transformation chain of the whole process. In particular, SCUT's robot innovation base has been mentioned for its roles of actively guiding students to apply for patents and promoting the establishment of an incubation and transformation system for the achievements of discipline competitions. In the past four years, 335 national patent applications have been made, including 27 invention authorizations and 119 utility model authorizations.

2019

335

119

Besides, the report marks SCUT's participation in major national strategies such as the science and technology innovation corridor of the Guangdong-Hong Kong-Macao Greater Bay Area (hereinafter referred to as GBA) and the International Science and Technology Innovation Center of the GBA. It also reflected SCUT's participation in the construction of national key laboratories and the Hong Kong-Zhuhai-Macao Bridge.

The Evaluation Report, co-issued by the China Association for Science and Technology as well as National Development and Reform Commission, assesses SCUT's scientific and technological achievements transformation mode of "selecting special science and technology delegates to facilitate deepening of cooperation with enterprises" as a typical case of Mass Innovation and Entrepreneurship Demonstration Base construction.

2019年 PCT总排名 中的位次	申请人名称	原属地	2018年	2019年
46	UNIVERSITY OF CALIFORNIA	美国	501	470
93	清华大学	中国	137	265
105	深圳大学	中国	201	247
108	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	美国	216	230
164	华南理工大学	中国	170	164
169	BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	美国	158	161
188	大连理工大学	中国	170	164
191	HARVARD UNIVERSITY	美国	169	140
200	SEOUL NATIONAL UNIVERSITY	大韩民国	174	136
207	LELAND STANFORD JUNIOR UNIVERSITY	美国	121	132

3. SCUT promotes industry internationalization of scientific and technological achievements with the cultivation of high-value patents: SCUT once again made outstanding achievements in PCT patent applications

PCT

On April 7, the World Intellectual Property Organization (WIPO) released the 2019 patent applications of the global PCT (Patent Cooperation Treaty). For two consecutive years, SCUT's number of PCT patent applications ranked in the top five global educational institutions and top three Chinese universities, among which 170 PCT applications were published in 2019.

	WIPO	2019	PCT	
PCT				2019 PCT

PCT applications are a fast and practical way to apply for protection of patented technology in multiple countries. It is a main embodiment of high-value patents. The World Intellectual Property Organization regards PCT applications as an important index of national innovation ability evaluation. In the past three years, SCUT has put forth 435 PCT applications, including 261 national patents and 89 foreign patents. There is a 100% year-on-year growth in the number of foreign patents.

PCT

PCT	PCT	435
89	100%	



4. Scientific research achievements of SCUT published in sub-journal of Nature—discovery of EEG biomarkers that can predict the treatment outcome of antidepressants

Nature

With Wu Wei, professor at SCUT's School of Automation Science and Engineering, as the first author, SCUT as the first unit, and Stanford University, Harvard Medical School, Columbia University, University of Texas (Southwestern Medical Center), etc. as cooperative research units, the research paper "An electroencephalographic signature predicts antidepressant response in major depression " was officially published in Nature Biotechnology in April this year.

electroencephalographic signature predicts antidepressant response in major depression

Nature Nature Biotechnology

The paper reports an EEG biomarker that can predict the treatment outcome of antidepressant drugs, and validates the EEG biomarker on several independent clinical EEG datasets. Meanwhile, the causal neural mechanism of the biomarker is explored and analyzed by concurrent transcranial magnetic stimulation and EEG technology. The research results have the potential to be soon applied to clinical use. They shall provide an objective criterion for the treatment selection for depression, thereby optimizing the treatment of depression and improving clinical outcomes. The research has taken a solid step in the individualized and precise treatment of mental illness.

5. SCUT students rank first internationally and won highest honor

序号	课程名称	课程负责人	学院	上线平台
1	形体与形象塑造 Body Shaping and Image Building	刘冬笑	体育学院	爱课程
2	1+1形体塑造 1+1 Shaping and Fitness Dance	刘冬笑	体育学院	爱课程
3	微积分I Calculus I	邓雪	数学学院	学堂在线
4	英美音乐与文化 British and American Music and Culture	周博炜	外国语学院	学堂在线
5	庄子寓言及其智慧 Zhuangzi's Fables and Their Wisdom	周博炜	外国语学院	学堂在线
6	制浆原理与工程 Pulping Principles and Engineering	付时雨	轻工科学与工程学院	学堂在线
7	计算机网络 Computer Networks	王宇	计算机学院	学堂在线
8	英语电影与文化 English Film and Cultural Studies	屈薇	外国语学院	学堂在线
9	企业战略管理 Strategic Management	蓝海林	工商管理学院	学堂在线
10	植物景观规划与设计 Plant Landscape Planning and Design	冯翊慧	建筑学院	学堂在线
11	食品生物化学 Food Biochemistry	任娇艳	食品科学与工程学院	学堂在线

6. Global sharing of quality courses: First 11 courses of SCUT officially launched on the international platform

11

On April 28, the first batch of international platforms for online teaching represented by "iCourses" and "XuetangX" were officially launched. The first batch of 193 online courses came from 53 "double first-class" universities and 7 specialty universities in China, covering the first 8 planned disciplines, including medical and epidemic prevention and control, economy and development, natural science, art and design, engineering and technology, intelligent and virtual simulation experiments, agriculture and ecology, and future-orientated innovation and entrepreneurship. SCUT has launched 9 courses on "XuetangX" and 2 courses on "iCourse".

28

193

53

9

iCourse was jointly established by Higher Education Press and Netease Youdao Company in 2014. The platform has formed a whole process support service system for online teaching. It was one of the first online learning platforms recommended by UNESCO during the epidemic. At the same time, it is also a sharing platform of higher education curriculum resources that is supported by the "undergraduate teaching quality and teaching reform project" launched by the Ministry of Education and the Ministry of Finance during the 12th Five-Year Plan period. It focuses on the presentation of "video open courses of Chinese universities" and "resource sharing courses of Chinese universities".

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7. Focusing on intelligent dialogue: Alumnus Wang Yi elected as "Top Ten Outstanding Chinese American Youth in 2020"

“ 2020 ”

On May 4, the 13th "Top Ten Outstanding Chinese American Youth" list was released, and Wang Yi, a 2013 alumnus of SCUT, was honored as one of the selections. This award was the first cross regional outstanding Chinese American selection activity in the United States. It has become one of the most eye-catching events from the Chinese American community during the Asian Pacific American Heritage Month in May every year. The selection was jointly sponsored by the All American Chinese Youth Federation, the Association for the Promotion of Chinese American Public Diplomacy and the Los Angeles Times.

2013

Wang Yi, who graduated from SCUT in 2013 with a Bachelor of Software Engineering, is founder and CEO of Qiwu and has nearly 10 years of experience in the development and management of mobile Internet and artificial intelligence projects. He focuses on the research and development of intelligent dialogue operating systems and is an outstanding youth representative of SCUT entrepreneurs. In 2018, Wang Yi won the gold medal of the 4th China College Students' 'Internet Plus' Innovation and Entrepreneurship Award. He was elected as one of Forbes China's "30under30" and "AACYF Top 30 under 30" in the same year.

2009

CEO

2018

“30under30” “ 30



8. Constructions began on the second phase of Guangzhou International Campus of SCUT

On the afternoon of June 28, construction of the second phase project of Guangzhou International Campus of SCUT was started. The second phase has a total construction area of 590,000 square meters, and shall be constructed in two stages. The first stage has a total construction area of about 420,000 square meters, including supporting facilities such as teaching buildings, students' dormitories, libraries, gymnasiums, cultural activity centers and teachers' apartments.

28

59

As one of the three major campuses of SCUT, Guangzhou International Campus of SCUT will remain committed to innovating discipline layout, integration of production, education and research, international cooperation and implementing an open school-running mode. Other important features include an innovative employment system and school management mechanism, campus management and educational training methods, and continuous exploration "SCUT's plan" for internationalization and reforms of higher education. Great efforts will be made to take a leading position in path innovation and model innovation of higher education. The campus will make outstanding contributions to the prosperity of the country and high-quality development of Guangdong-Hong Kong-Macao Greater Bay Area with "SCUT's wisdom" and "SCUT's strength".

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9. The Laboratory of Artificial Microstructure Physics published the latest research results in Nature Communications

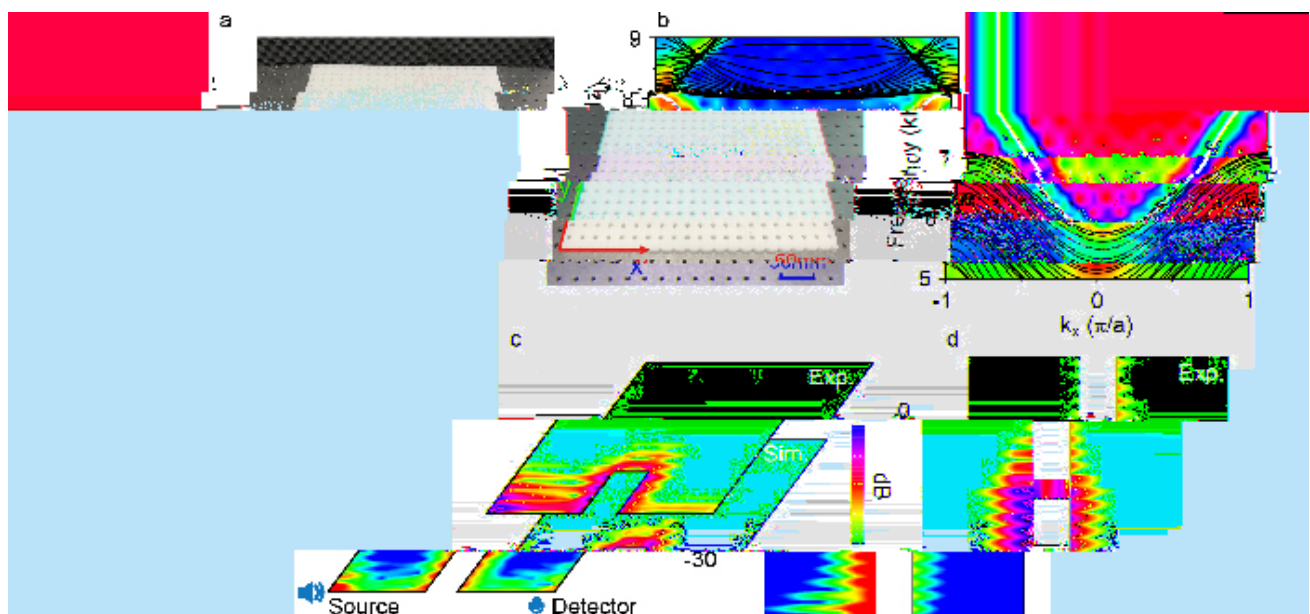
Nature Communications

At the end of June, a research paper entitled Acoustic spin-Chern insulator induced by synthetic spin-orbit coupling with spin conservation breaking by the team of the Laboratory of Artificial Microstructure Physics, School of Physics and Optoelectronics of SCUT was published online in Nature Communications. SCUT is the first unit of the paper, and Associate Professor Deng Weiyin and Professor Huang Xueqin are the co-first authors. Professor Li Feng and Professor Liu Zhengyou of Wuhan University are the joint corresponding authors of the paper. Other collaborators include Associate Professor Lu Jiuyang, Professor Sebastian D. Huber of ETH and his doctoral student Valerio Peri.

“Acoustic spin-Chern
insulator induced by synthetic spin-orbit coupling with spin conservation breaking”
Nature Communications

ETH Sebastian D. Huber

Valerio Peri



In this study, acoustic spin induced by pseudo spin-orbit coupling was realized (Figure 1a), and the spiral edge state propagating along the edge of the single phonon crystal phase was observed (Figure 1b) and its robustness was verified (Figure 1c), and the spin flip effect of the edge state was observed in H-shaped samples (Figure 1d).

1c

The acoustic team of the Laboratory of Artificial Microstructure Physics of the School of Physics and Optoelectronics mainly studies topological physics and novel transport operations in classical waves, and has published many articles in journals such as Nature Physics, Nature Materials, Nature Communications and Physical Review Letters with SCUT as the first unit.

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