

Chinese Academy of Sciences in the Early Years



Academia Sinica (1928-1949)



CAS headquarters (1949-1979)



- founded on November 1st, 1949
- integrated original major scientific research institutions in China;
- home to the largest number of best talents
- administrative function over the whole country.

History of Achievements



In 1960's CAS made significant contribution to the development of China's atomic bombs, missiles and satellites.

The mushroom cloud of China's first atomic bomb, October 16, 1964



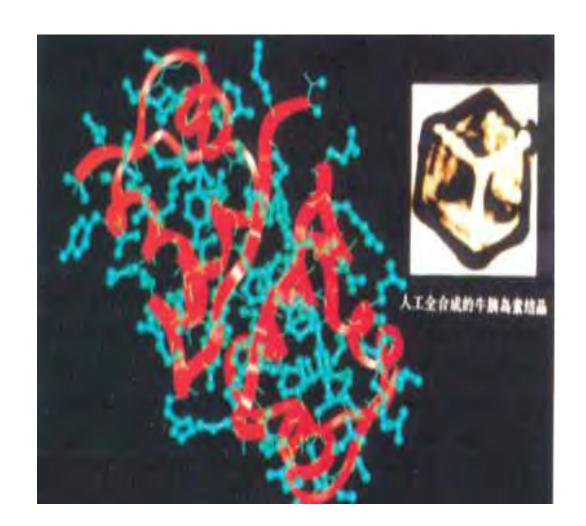
On April 24, 1970, China launched successfully the first man-made satellite-Dong Fang Hong No. 1.

History of Achievements

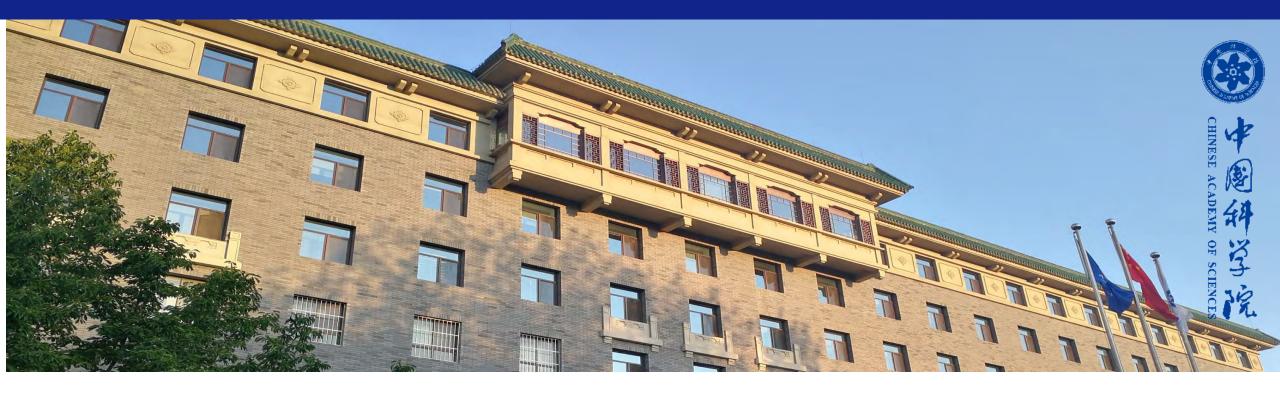
In September, 1965 CAS scientists obtained successfully the crystals of total synthesis of bovine insulin.

That was the first human synthesized crystalline protein with biological activity in the world.

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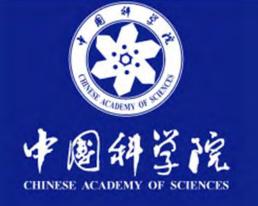
Chinese Academy of Sciences



CAS, **China's** leading national scientific institution in natural sciences and high-tech development.

Mandate

- Basic and applied research /Technology transfer
- Science-based advice and consultation
- Higher education



Three IN One

research & development system

a merit-based academic society

higher education function





106 research institutes



800

Members

92

Foreign Fellows



Universities 70,000+ students

FAST: an eye for the universe

FAST(Five-hundred-meter Aperture Spherical Radio Telescope) provides a unique tool for exploring the universe and serves as a world-leading innovation platform for fundamental research, advanced technology development and international S&T cooperation.

Most sensitive with the world's largest single-aperture

Enable astronomers to jumpstart many of the science goals

New pulsars discovered using FAST



Beidou: just follow me!

Making great contributions to the global network of Navigation Satellite System

Responsible for test satellite of global navigation system, "Beidou-2" and "Beidou-3".

launched a first new generation of "Beidou" satellites

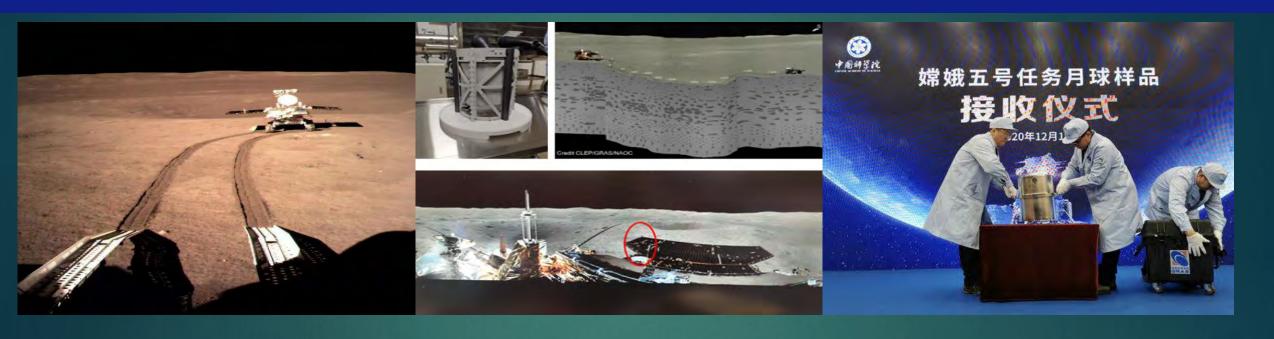
Application of satellite atomic clock and high-precision navigation, positioning and timing.



Eleven Thousand Meters Under the Sea

China's new deep-sea manned submersible Fendouzhe, or Striver, set a national diving record of 10,909 meters on November 11, 2020 in the Challenger Deep, a 11,000-meter chasm located at the bottom of the Mariana Trench in the western Pacific Ocean.

Top Achievements: Chang'e Flying to the Moon



The Chang'e-4 probe made the firstever soft landing on the Von Karman Crater in the South Pole-Aitken Basin on the far side of the moon on Jan. 3, 2019.

Chang'e-5 brought back the country's first samples collected from the moon on Dec.7, 2020

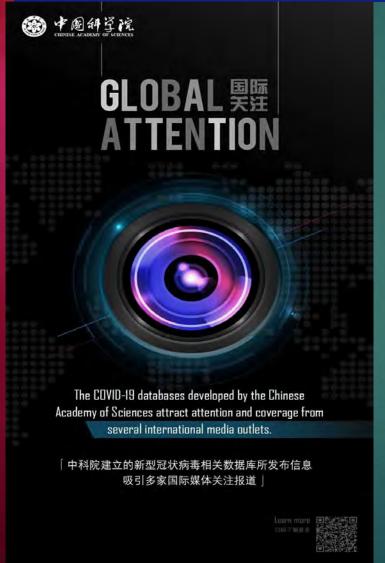
National Astronomical Observatories took charge of lunar rocks and soil



The Chinese Academy of Sciences releases the world's first electron microscope picture of SARS-CoV-2 on Jan 24, 2020.

「2020年1月24日, 中科院发布全球第一张新冠病毒电子显微镜照片





Together, we beat virus.



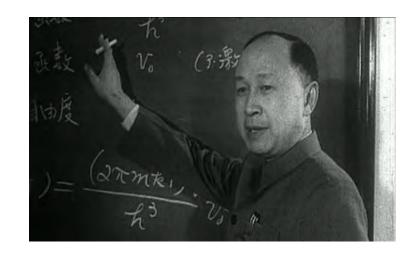
国械注准20203400776

CE认证: EU213518

The inactivated vaccine developed by CAS shows 79.34 % efficacy against COVID-19 and is available in the market .

CAS' Contributions to Higher Education

- 1951: CAS started to admit in-tern researchers and graduate students, starting postgraduate education in China.
- 1955: "The Tentative Regulations on CAS Graduate Students" co-issued by MoE and CAS marks establishment of Chinese graduate educational system.
- 1955-1965 \approx 1, 000 on going graduate students trained at CAS made up 20.7 % of the total no. of graduate students in the country
- 1964 attempted to establish "Graduate School of Chinese Academy of Sciences"





University of Chinese Academy of Sciences









Profile

University of Chinese Academy of Sciences (UCAS) is a research university mainly focusing on graduate education and promoting fusion between talent

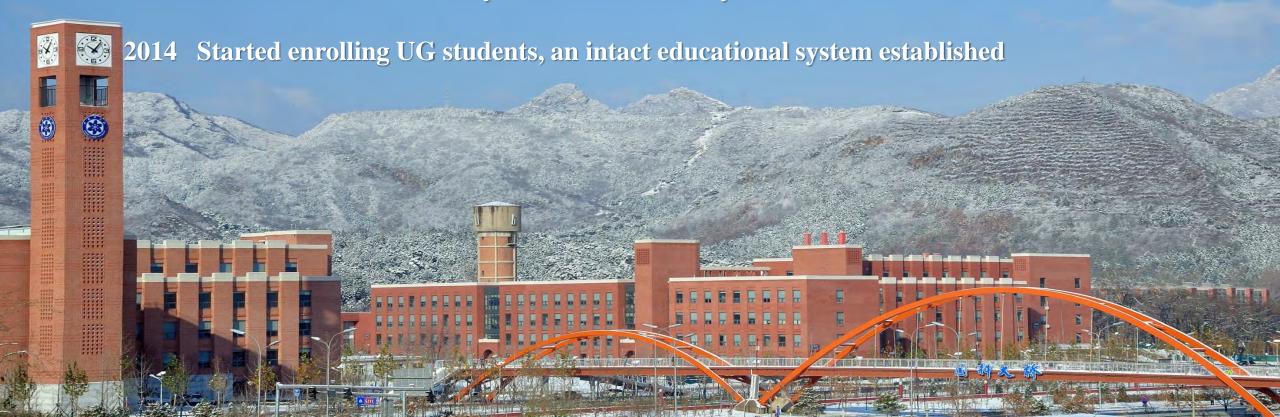


Milestone Event

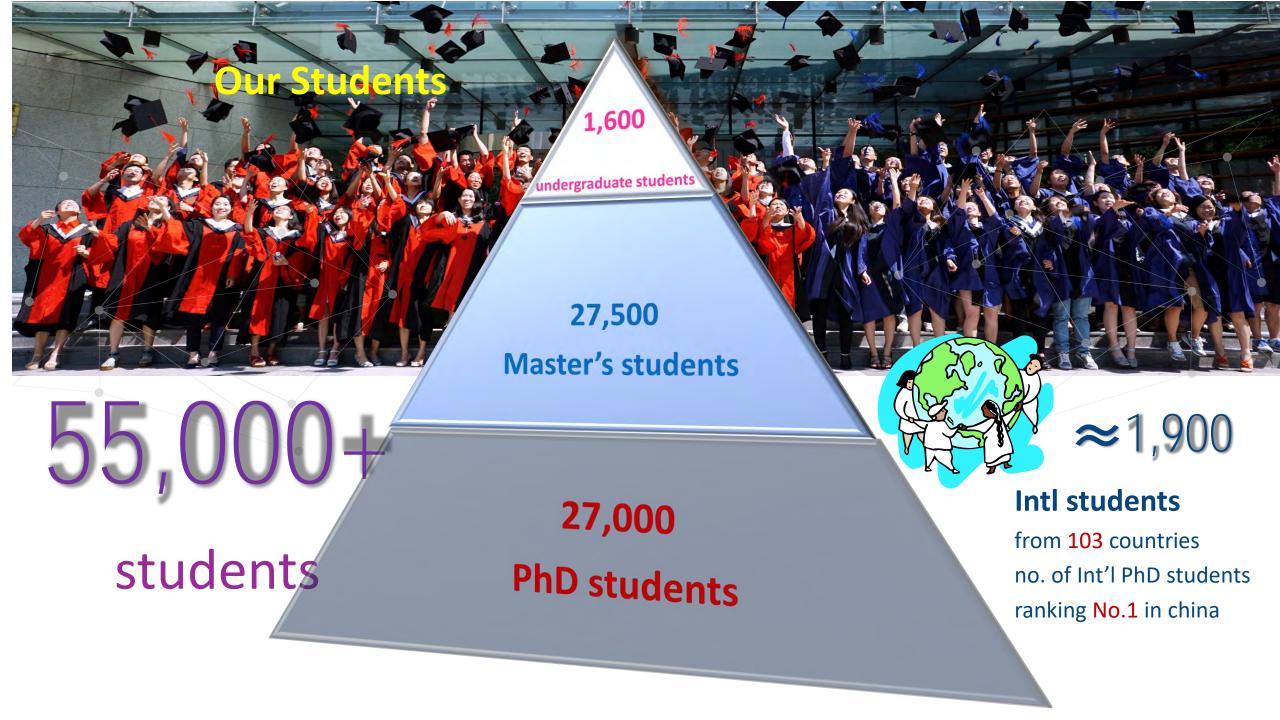
1978 Graduate School of Chinese Academy of Sciences, the first graduate school in China

2000 Reconstructed and renamed Graduate University of Chinese Academy of Sciences

2012 Renamed as the University of Chinese Academy of Sciences









Our Faculty



3,000+
dedicated faculty
members

11,000+
supervisors











Science

School of Mathematical Sciences
School of Physics
College of Chemical Science
Department of Psychology
School of Astronomy and Space
Science

College of Earth Sciences
College of Resources and
Environment
College of Life Sciences

Agriculture



Faculties on Beijing Campuses



Engineering

School of Engineering
College of Material Sciences and Opt-Electronic
Technology
School of Computer and Control Engineering
School of Electronic, Electric and
Communication Engineering
College of Future Technology
College of Cyber Safety
College of Chemical Engineering
College of Nano Science and Technology

College of Nuclear Science and Technology

College of Aeronautics and Astronautics



Social Science

College of Humanities and Social
Sciences
Department of Foreign Languages
School of Economics and Management
School of Public Policy and
Management
College of Innovation and
Entrepreneurship



Medicine

Savaid Medical School



Sino-Danish College International College

School of Advanced Agricultural Sciences

Geographic Locations of Training Units



- ★ Locations of CAS Institutes
- Locations of CAS education centers

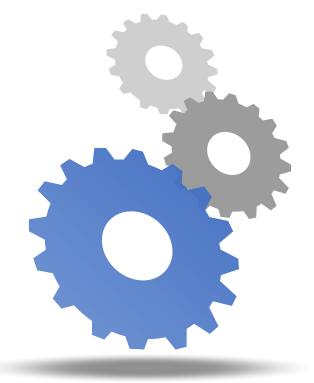




Fusion of Education and Research







Research Environment

- Science facilities
- I. Operate 80% + large-scale science facilities in China
- II. 30+ such facilities either in operation or under construction at CAS inst.
- 1 National laboratories
- 2 National Research Centers
- 9 National Engineering Research Centers
- 15 National Engineering Research Laboratories
- 17 National Engineering Technology Centers
- 77 National key laboratories
- 189 CAS key laboratories



World Recognition

ESI Ranking

National Ranking	Institution	Global Ranking	No. of top 1% Disciplines	No. of papers
1	UCAS	45	19	142,482
2	Tsinghua U	61	20	83,389
3	Peking U	71	22	81,078
4	SJTU	77	20	94,503
5	Zhejiang U	81	21	92,713

Source: Essential Science Indicators (ESI) November, 2021

World Recognition

nature index

Home News → Current Index → Annual tables → Supplements → Client services →

Home / Supplements / Nature Index 2019 Young Universities / Top 175 young universities

Top 175 young universities

The table shows the top 175 young universities* ranked by their fractional count in 2018 (FC 2018). Also listed are each university's article count of the year (AC 2018), the highest subject rank among young universities and its global rank among all academic institutions in 2018.

Click on column headers to sort

Rank	Institution	Country / Region	Year established	FC 2018	AC 2018	Highest subject rank**	Rank among academic institutions***
1	University of Chinese Academy of Sciences (UCAS)	China	1978	318.77	1,816	C1, E1, P1	19
2	Nanyang Technological University (NTU)	Singapore	1991	232.51	569	C2, E2, P2	34
3	Swiss Federal Institute of Technology Lausanne (EPFL)	Switzerland	1969	219.92	542	C3, L3, P3	37
4	Korea Advanced Institute of Science and Technology (KAIST)	South Korea	1971	155.09	319	C4, P4	63
5	Hong Kong University of Science and Technology (HKUST)	China	1991	108.39	310	P5	98
6	King Abdullah University of Science and Technology (KAUST)	Saudi Arabia	2009	104.77	248	C5	108
7	Southern University of Science and Technology (SUSTech)	China	2012	89.22	271	C6	136
8	Pohang University of Science and Technology (POSTECH)	South Korea	1986	85.85	219	P6	143
9	University of Paris-Sud (UPSud)	France	1970	71.08	574	P9	184
10	Ulsan National Institute of Science and Technology (UNIST)	South Korea	2009	68.88	161	P8	189
11	Oregon Health and Science University (OHSU)	United States of America (USA)	1981	55.48	151	L1	226
12	City University of Hong Kong (CityU)	China	1994	53.60	197	C10	234 ## ==





Int'l Cooperation

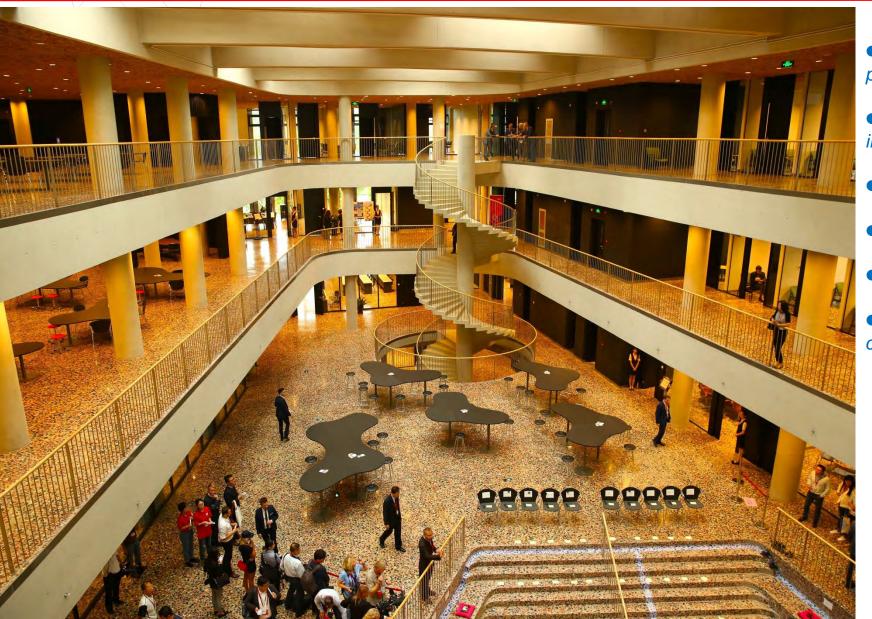




中丹学院

Sino-Danish College





- Collaboration between UCAS & eight Danish public universities
- To promote education, research and industrialization
- Dual- degree program
- Guided by two supervisors
- English as teaching language
- Aimed to be a model for Sino-Danish collaboration





Joint Platform for Science and Education





International Centre for Theoretical Physics (Asian Pacific)

- Category 2 Centre under the auspice of UNESCO
- Affiliated to UCAS in collaboration with ICTP
- To perform a top level research and promote scientific excellence throughout the world with emphasis in Asia-Pacific region



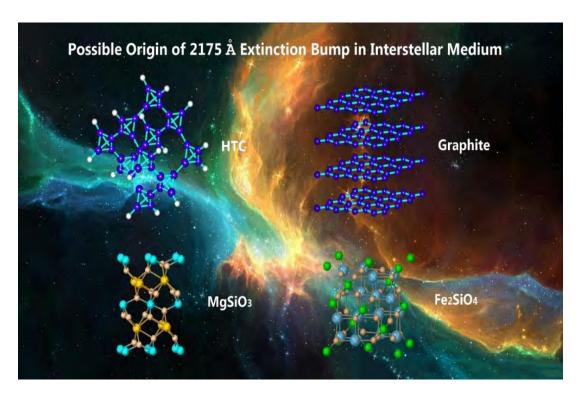






Joint Platform for Science and Education





Overseas Center for Education and research



UCAS is actively engaged in construction and development of the CAS Overseas Centers in Asia, Africa and South America for personnel training and capacity building.

Workshops and Seminars



BEIJING DECLARATION

Face the future Explore the unknown

面向未来•探索未知







Workshops and Seminars



The National Science and Research Organizations Summit Forum on the Belt and the Road Initiative, November 8, 2016





1st Africa China World Bank Education Partnership Forum July 9-12, 2017

Int'l Student Program

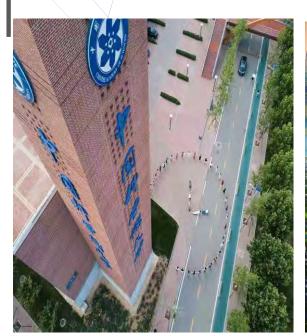
Scholarship

- UCAS Scholarship
- Chinese Government Scholarship
- Beijing Municipal Scholarship
- Foreign Government Scholarship
- CAS-TWAS Presidents' Fellowship
- ANSO Scholarship





Huairou Science City











- Platform for state key S&T basic facility infrastructure and cut-edging interdisciplinary study aiming at breakthroughs in research
- 2. Construction of world-class science facilities for fundamental and important research
- 3. Aims to be a world-famous national science center by 2030
- 4. Focus on materials, space, atmosphere and environment, geology, IT and AI, and life science

A New Hope





2 km away from the core, unlimited opportunities for UCAS

Colorful Campus Life



