



中国科学院大学

University of Chinese Academy of Sciences

Welcome and Introduction to SEM of UCAS

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汇报人:

School of Economics and Management (SEM)

University of Chinese Academy of Sciences (UCAS)

- 0 Welcome**
- 1 CAS & UCAS**
- 2 Introduction to SEM at UCAS**
- 3 Academic Research of SEM**
- 4 International Exchange & Cooperation**



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CAS & UCAS

国科大



Chinese Academy of Sciences (CAS)



1949



CAS
Headquarters



2024

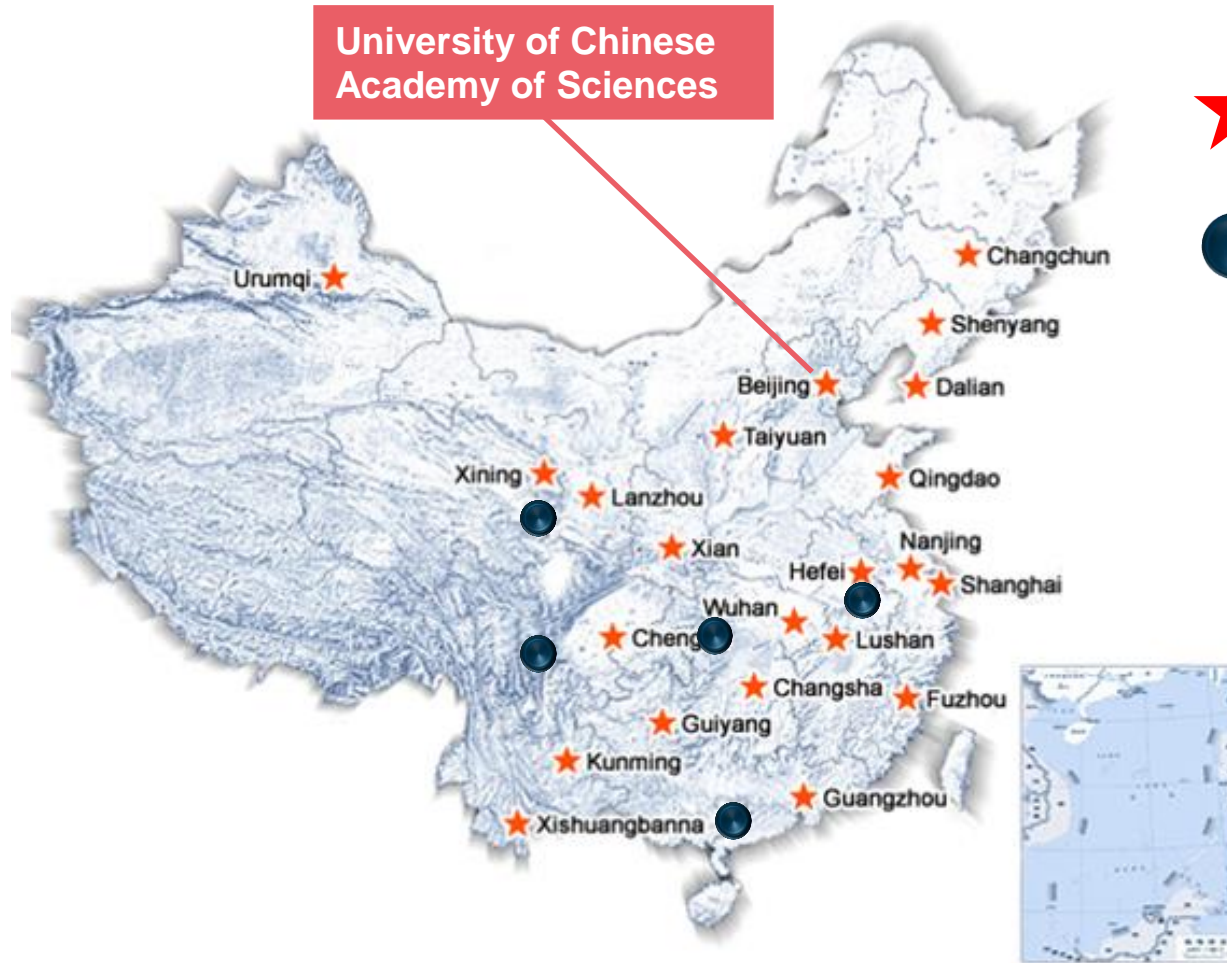
CAS, China's leading national scientific institution in natural sciences and high-tech development.

Mandate

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



Layout of CAS Institutions and UCAS Education Centers



Locations of CAS Institutes

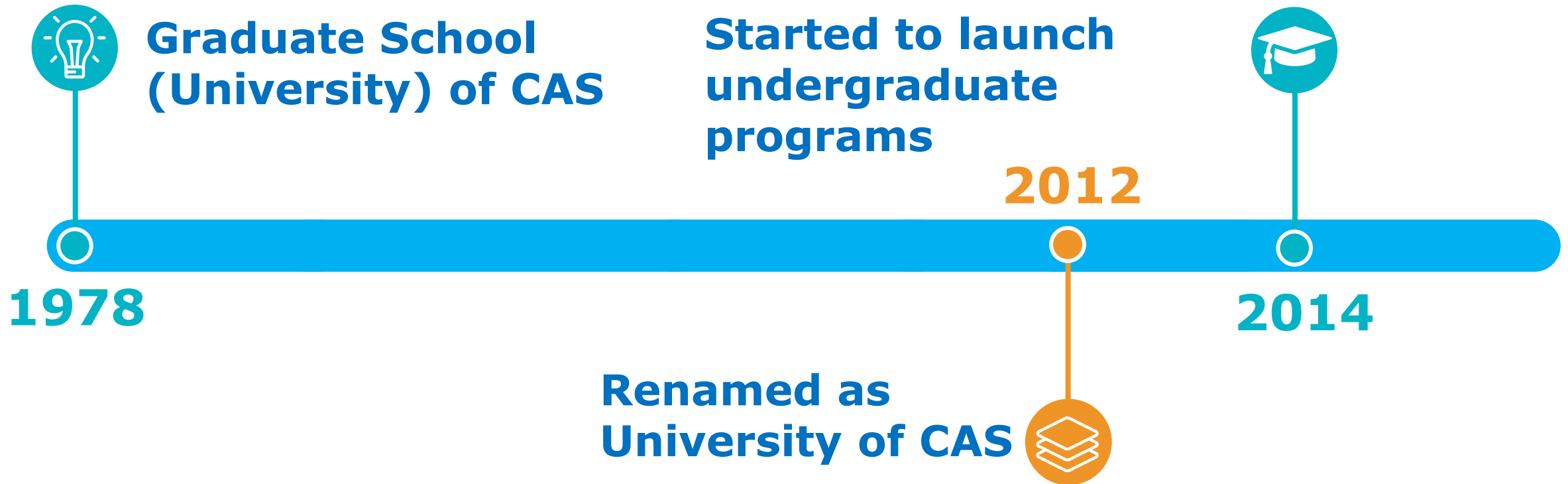


Locations of UCAS education centers

- ◆ Headquartered in Beijing
- ◆ Supported by **110 +** CAS institutes
- ◆ **5** educational centers in Shanghai, Wuhan, Guangzhou, Chengdu and Lanzhou
- ◆ An educational network



History of UCAS





UCAS Profile



- 1 A research-oriented university**
- 2 Mainly focusing on graduate education**
- 3 Enrollment of a small number of excellent undergraduate students**
- 4 Promoting fusion between talent cultivation and research**



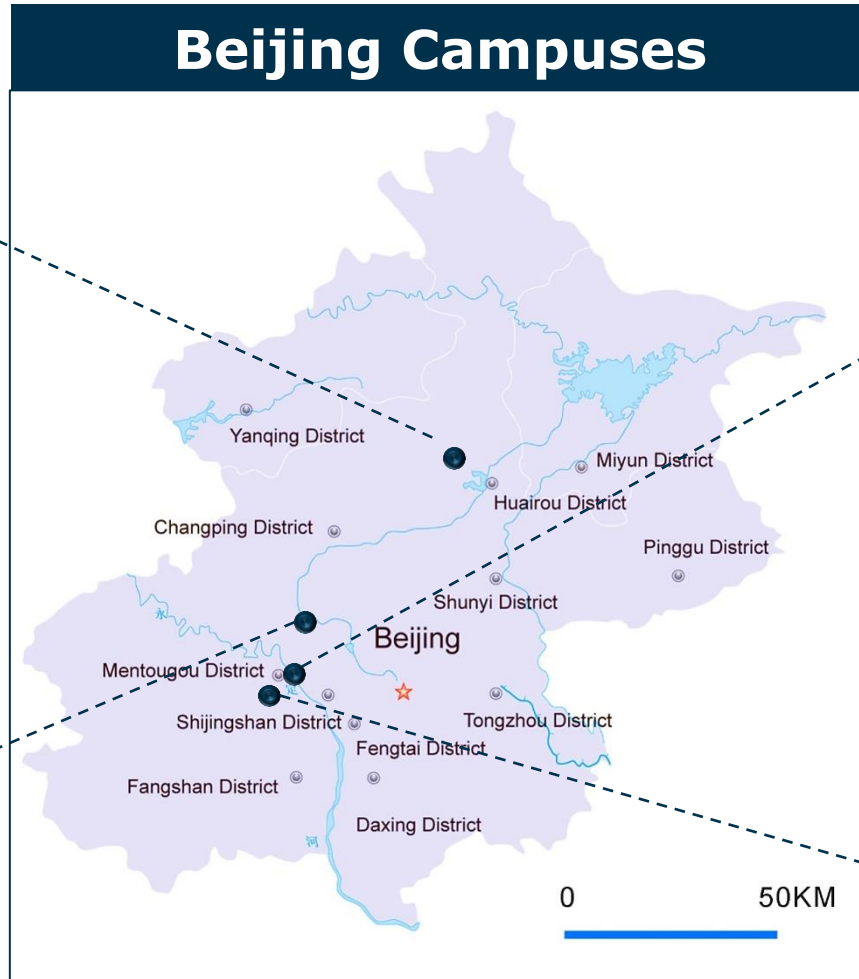
Beijing Campuses of UCAS



Yanqi Lake Campus



Olympic Village Campus



Zhongguancun Campus



Yuquanlu Campus

The total area of UCAS campus is 3,337,648 m², almost 4.3 times as big as the Forbidden City.



World Recognition of UCAS

nature INDEX 2022 tables: Institutions - academic

#	Institution
1	Harvard University
2	Stanford University
3	Massachusetts Institute of Technology (MIT)
4 ★	University of Chinese Academy of Sciences (UCAS)
5	University of Science and Technology of China (USTC)
6	Peking University (PKU)
7	Tsinghua University
8	Nanjing University (NJU)
9	University of Oxford
10	The University of Tokyo (U Tokyo)

ESI Ranking

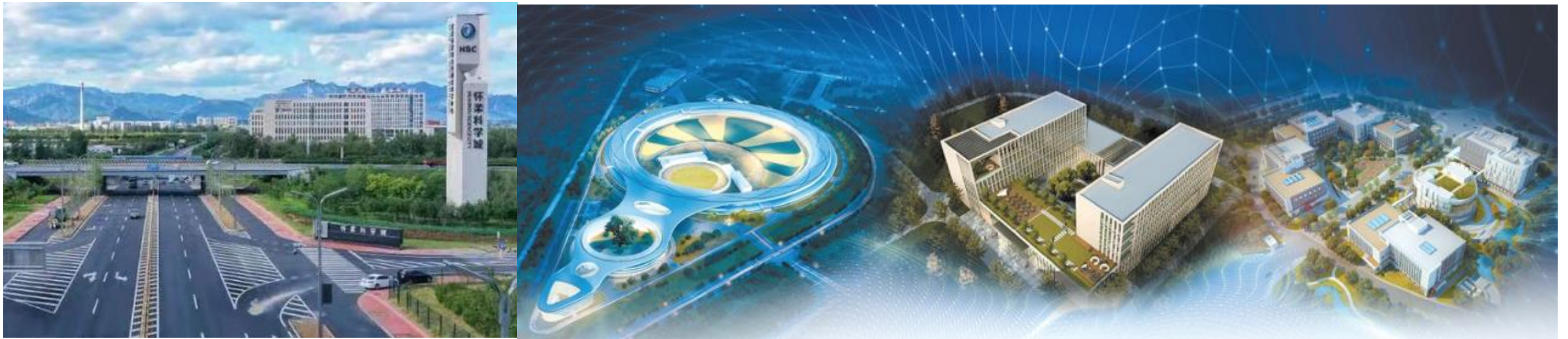
National Ranking	Institution	Global Ranking	No. of top 1% Disciplines	No. of papers
1	UCAS	26	22	187,214
2	Tsinghua U	41	21	112,979
3	SJTU	51	21	136,759
4	Zhejiang U	52	21	135,334
5	Peking U	55	22	110,016

**Source: Essential Science Indicators (ESI)
September, 2023**



Huairou Science City

- 1 **Platform** for state key S&T basic facility infrastructure and cut-edging interdisciplinary study
- 2 **Cluster** of World-class science facilities for fundamental and elementary research
- 3 **World-famous science center** at national level by 2030





A New Opportunity





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Introduction to SEM at UCAS



History of SEM

- ◆ CAS is the palace of China's management science and the birthplace of China's modern management thought, dating back to 1950s.



Xuesen QIAN

Proposed the system theory, which is widely used in the discipline of management



Luogeng HUA

Led the unprecedented management science movement in Chinese history: the promotion of operations management and optimization methods

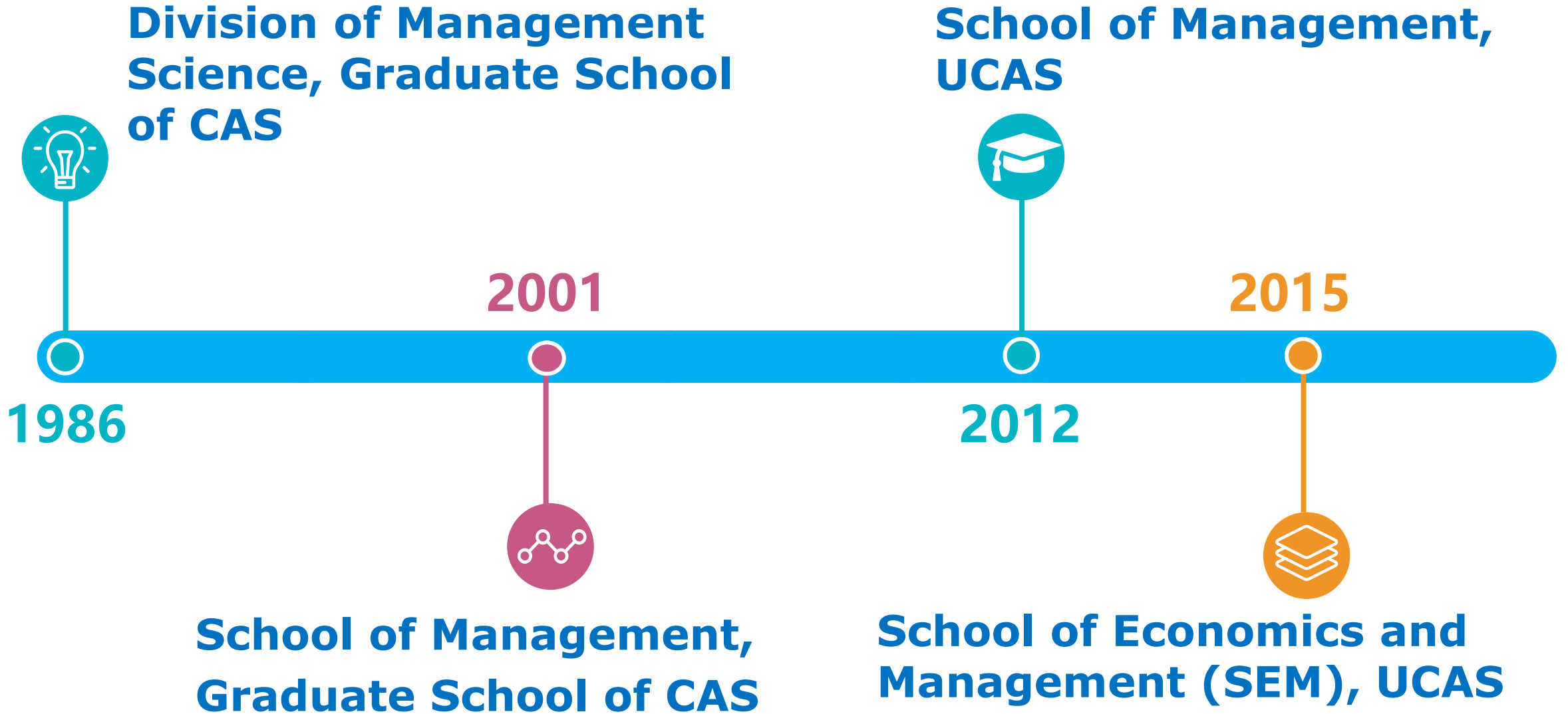


Guozhi XU

One of the main founders of operations research and systems engineering research in China



History of SEM





Deans of SEM



2001-2015

Siwei CHENG

“Father of Venture Investment” in China



2015-2021

Shouyang WANG

Fellow of the World Academy of Sciences (TWAS) in advancement of sciences in developing countries



2021-Present

Yongmiao HONG

Fellow of Econometric Society, Ernest S. Liu Professor of Economics and International Studies Emeritus, Cornell University



Fusion of School with Institutes

7 Academic Departments

Management Science

Business Administration

Economics

Finance

Statistics and Data Science

Digital Economy and Virtual Business*

Information Resources and Management

* The Department of Virtual Business is the first of its kind in China and abroad.

10 Affiliated Research Institutes

Academy of Mathematics and Systems Science, CAS

Center for Forecasting Science (CEFS) , CAS

National Science Library, CAS

Institutes of Science and Development, CAS

Institute of Geographic Sciences and Natural Resources Research, CAS

Institute of Automation, CAS

Technology and Engineering Center for Space Utilization, CAS

Institute of Psychology, CAS

Research Center for Eco-Environmental Sciences, CAS

Computer Network Information Center, CAS



Degree and Non-degree Programs

Educational Programs

Degree Education

Professional Master degree

Academic Master degree

Academic Doctoral degree

Professional Master of Finance

Finance MBA

Comprehensive MBA

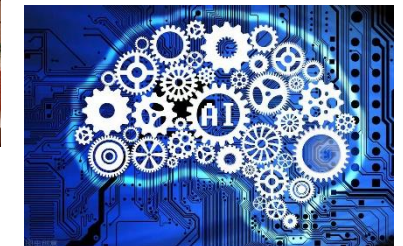
Artificial Intelligence MBA

Belt and Road Initiative MBA

Innovation and Entrepreneurship MBA

Non-Degree Education

EDP Training for Senior Executives





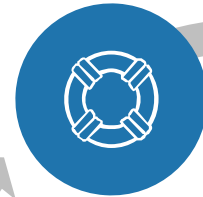
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Academic Research of SEM



Scientific Research Platform

5 National or Provincial Laboratories



4 University-level Research Centers

1 Joint University-level Laboratory



10 School-level Research Centers



4 Joint School-level Research Centers



8 Academic Organizations

3 Academic Journals



2 Joint School-level Laboratories





Research Talents

9 Elsevier Chinese Most Cited Researchers:

- ◆ Management Science and Engineering: **Shouyang WANG, Yong SHI, Jianping LI, Jiancheng GUAN, Desheng WU**
- ◆ Applied Economics: **Ling TANG**
- ◆ Agroforestry Economic Management: **Linxiu ZHANG**
- ◆ Statistics: **Yongmiao HONG**
- ◆ Mathematics - Operations Research Management: **Bo LIU**

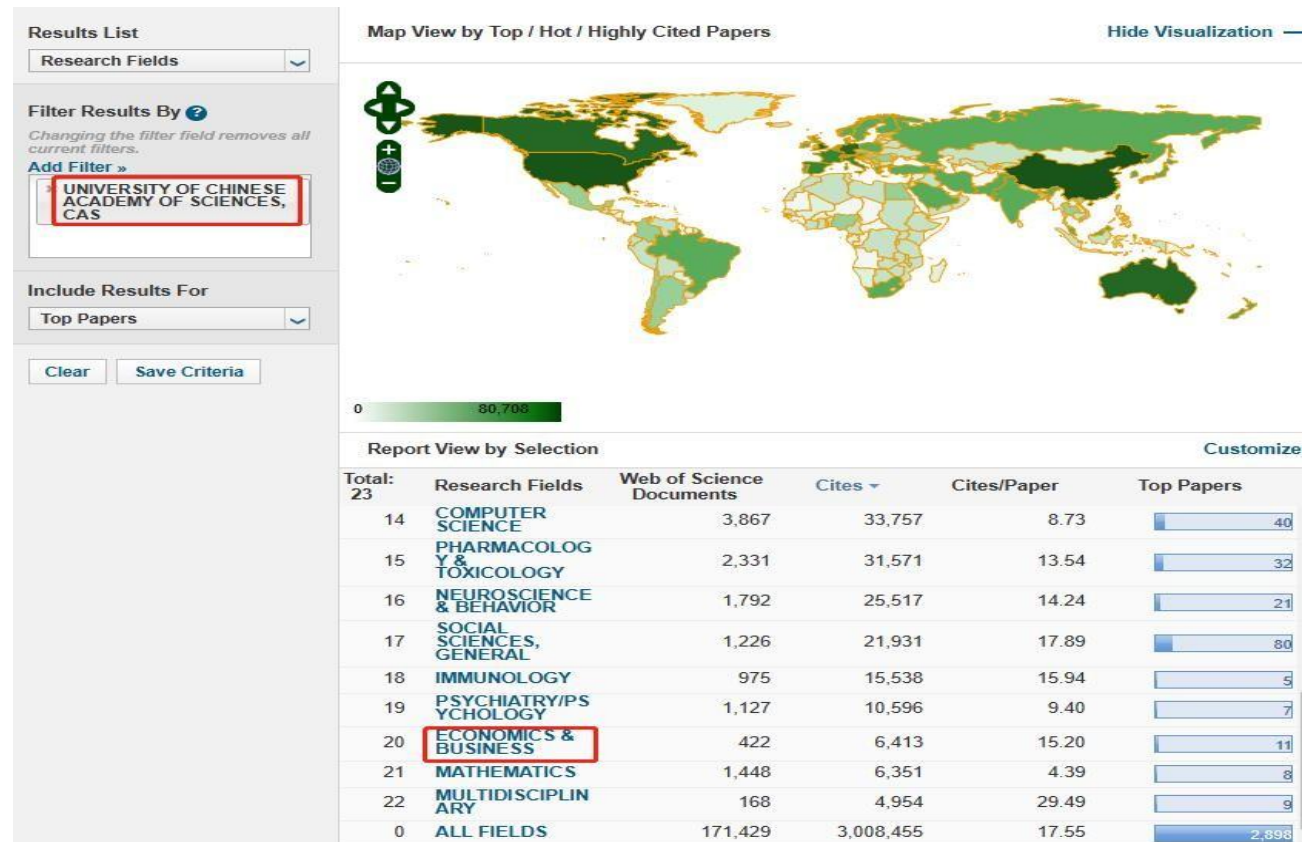




Economics and Business in Top 1% of ESI

- Economics and Business in Top 1% of ESI Research Fields globally
- The statistical data covers the time span from January 1, 2012 to October 31, 2022, longer than 10 years.
- So far, all 22 research fields of UCAS have been in the top 1% of ESI, of which 12 research fields have been in the top 1% of ESI, ranking 36th globally and the first in domestic universities.

全国排名	中文名称	论文数	他引数	前1%数	前1%数	全球排名	排名提升
1	中国科学院大学	171429	3008455	22	12	36	2

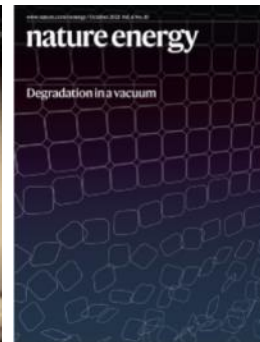


Source: Essential Science Indicators (ESI) by Clarivate Analytics in January, 2023



Academic Publications

- ◆ SEM has published influential academic papers in top international academic journals.
- ◆ More than 1200 papers have been published in **top** journals (*Science*, *Nature* and *Nature Communications*), **UTD 24** journals (*Management science*, *Production and Operations Management*, and *INFOMRS Journal on Computing*), **FT50** journals (*JMIS*, *Research Policy* and *HR*), as well as **domestic top** journals (*Economic Research Journal*, *Journal of Management World* and *Chinese Journal of Management Science*).





Think Tank

□ Focusing on the major issues of the international and domestic economy.

□ Becoming a source of innovation for national strategies and policies.

□ Over 100 policy research reports are completed every year, many of which were approved by national leaders.

Policy assessment and impact analysis



Commodity Price Forecast



Digital Economy



Global Value Chain



Dual-carbon Policy and Economic Assessment

CLIMATE ECONOMICS

Assessing China's efforts to pursue the 1.5°C warming limit^{1,2}

Hongbo Duan^{1,4}, Sheng Elmar Krieger^{4,7}, Detle Massimo Tavoni^{12,13}, Xi **Science** ^{tsen^{5,6}, xi^{8,10,11}, g¹⁵}

Given the increasing interest in keeping global warming below 1.5°C, a key question is what this would mean for China's emission pathway, energy restructuring, and decarbonization. By conducting a multimodel study, we find that the 1.5°C-consistent goal would require China to reduce its carbon emissions and energy consumption by more than 90 and 39%, respectively, compared with the "no policy" case. Negative emission technologies play an important role in achieving near-zero emissions, with captured carbon accounting on average for 20% of the total reductions in 2050. Our multimodel comparisons reveal large differences in necessary emission reductions across sectors, whereas what is consistent is that the power sector is required to achieve full decarbonization by 2050. The cross-model averages indicate that China's accumulated policy costs may amount to 2.8 to 5.7% of its gross domestic product by 2050, given the 1.5°C warming limit.



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International Exchanges & Cooperation



Founder member of ACE

◆ Initiated China-Europe International Business School Alliance (ACE)

- European Foundation for Management Development (EFMD)
- University of Chinese Academy of Sciences (UCAS)
- Angers Business School (ESSCA), France



Honorary Founder: Siwei CHENG, Former Dean of SEM

President of European Management Development Foundation: Eric CORNUEL

◆ Members: 10 leading business schools in Europe and China

Europe	
Rotterdam School of Management	Antwerp Management School
European Business School (EBS), Germany	Prague University of Economics and Business
School of Business, Economics and Law, University of Gothenburg	Catolica Lisbon School of Business and Economics
University of Leeds	ESSCA Business School
Polytechnic University of Milan	Faculty of Economics, Ljubljana University

Asia	
UCAS	The Hong Kong Polytechnic University
National Tsing Hua University	Beijing Jiaotong University
University of Macau	Harbin Institute of Technology
Shanghai University of Finance and Economics	Northwestern Polytechnical University
Xiamen University	Southwestern University of Finance and Economics



International Accreditation

- UCAS SEM earned **AACSB** international accreditation and received a five-year qualification in Feb., 2022.
- UCAS SEM earned **AMBA** international accreditation and received a five-year qualification in 2015, and renewed AMBA accreditation and received a five-year qualification in 2019.
- UCAS SEM was eligible to enter the **EQUIS** Accreditation process in Jun., 2023, and will receive PRT visit and accreditation decision in 2025.





International Conference

Chinese-style Economic Modernization Forum: Low Carbon, Efficiency, Inclusiveness, Growth and Satellite Conference on "Digital Economy and Artificial Intelligence Theory and Applications" of International Congress of Basic Science in Jul.,2023, **150,000** people watched live online

Our **Carbon Neutral Economics research team** launched the "**Wish 3E Carbon Neutral Public Welfare Platform**", which has received more than **600,000** visits since its launch.

Keynote Address by Robert F. Engle, Nobel Laureate in Economics, Professor, NYU Stern School of Business



Opening Ceremony



Forum





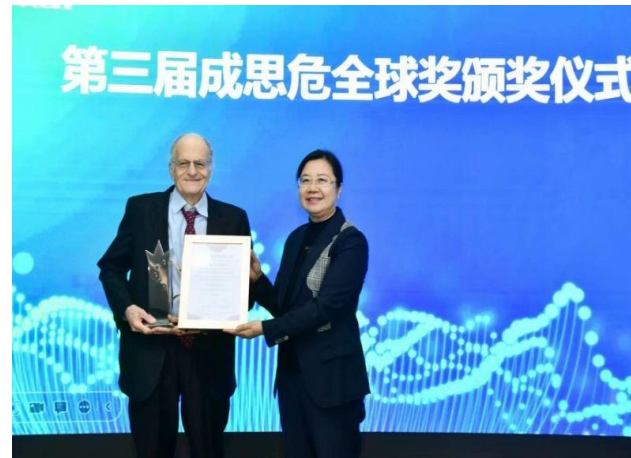
International Conference

The 3rd Cheng Siwei Global Prize Award Ceremony & Seminar on Theory and Practice at the Frontiers of Economics and Management

The "Cheng Siwei Global Prize" was established by the Cheng Siwei Fund in 2018, which mainly honors outstanding achievements of scholars at home and abroad who have conducted in-depth explorations in the fields of research and practice founded or engaged in by Cheng Siwei, and who have put forward significant and innovative economic or management theories and methods, which have promoted China's economic and social development.

2023 laureates:

Thomas Sargent, 2011 Nobel Laureate in Economics, Professor, New York University, USA
YANG Shanlin, Academician of the Chinese Academy of Engineering, Professor, Hefei University of Technology, China





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Thank you!

**Welcome to visit SEM at UCAS
on spot in the near future!**