

TCMIBBA

**TSINGHUA-COLUMBIA  
DUAL MASTER'S DEGREE PROGRAM  
IN BUSINESS ANALYTICS**

**MASTER'S PROGRAMS  
TSINGHUA SEM**



This program aims to develop interdisciplinary talent in the fields of management theory and cutting-edge information technology, with an emphasis on global vision and strong business analytical skills.

Collaboration Between China and U.S top Universities

International Education Geared Towards Industry Practice

Interdisciplinary Approach to Management Theory and Data Science

The First Business Analytic on the Chinese mainland



**Length**  
2~3 Years  
Full Time



**Class Size**  
35



**Language**  
Chinese and English

Financial Times Masters in Management Rankings 2025

Tsinghua SEM  
Master in Management

**4<sup>th</sup>**  
Worldwide

**1<sup>st</sup>**  
in Asia

Aims achieved



**1<sup>st</sup>**  
Worldwide

Value for money

**2<sup>nd</sup>**  
Worldwide



# Dual Master's Degree

Major	
 <b>Tsinghua Phase</b>	 <b>Columbia Phase</b>
Management Science and Engineering	<b>MSOR</b> Master of Science in Operations Research, concentration in Business Analytics
	<b>MSBA</b> Master of Science in Business Analytics
	<b>MS&amp;E</b> Master of Science in Management Science and Engineering
	<b>MSIE</b> Master of Science in Industrial Engineering
	<b>MSFE</b> Master of Science in Financial Engineering
Master of Science in Management Science	Master of Science Degree

## Timeline

<b>YEAR 1</b> Tsinghua University Beijing, China	<ul style="list-style-type: none"> <li>Required and Elective Courses</li> <li>Thesis Proposal (Tsinghua)</li> </ul>	 Extended Learning and Student Activities
<b>YEAR 2</b> Columbia University New York, USA	<ul style="list-style-type: none"> <li>Required and Elective Courses</li> <li>Thesis Writing (Tsinghua)</li> </ul>	 Interns and Integrated Project
<b>YEAR 3</b>	 <b>Thesis Defense</b>	 <b>Graduation</b>

## Curriculum

Tsinghua University	Columbia University
<b>Core Courses</b> <ul style="list-style-type: none"> <li>Advanced Econometrics</li> <li>Optimization Models and Methods</li> <li>Machine Learning with Applications in Python</li> </ul>	<b>Required Core</b> <ul style="list-style-type: none"> <li>Optimization Models and Methods</li> <li>Introduction to Probability and Statistics</li> <li>Stochastic Models</li> <li>Simulation</li> </ul>
<b>Concentration Core</b> <ul style="list-style-type: none"> <li>Data Analytics: Inference and Decision-Making</li> <li>Management and Innovation in the Era of Big Data</li> <li>Data Analytics Strategy and Practice</li> <li>Integrated Business Analytics in Practice</li> </ul>	<b>Required Technical Core</b> <ul style="list-style-type: none"> <li>Tools for Analytics</li> <li>Data Analytics for Operations Research</li> </ul>
<p>↓</p> <p><b>Integrated Business Analytics in Practice</b></p> <p>The course is designed to motivate students to think and learn creatively by involving them in real projects of modern enterprises. Students are expected to improve critical thinking capabilities and develop practical skills through tackling real business challenges.</p>	<p>→</p> <p><b>Upon completion of the course, students will</b></p> <ul style="list-style-type: none"> <li>Enhance the ability to tackle real BA problems systematically</li> <li>Improve proficiency in BA tools commonly used in modern enterprises</li> <li>Strengthen teamwork skills</li> </ul>

# Overseas Tsinghua Alumni Mentorship

## 2019.4 New York

The initiation of Overseas Tsinghua Alumni Mentorship



Guiding students' personal development, providing employment and internship opportunities and counselling life development during their stay in Columbia University.

### Appointments

Tsinghua alumni in the USA are appointed as overseas alumni mentors

### Average Age

40+ years old

### Living and Working in The USA

10-20+ years

### Industries

Banking, Financial Services, Investment  
High-tech, etc.

TCMiBA program provides opportunities to visit Advisory Board companies in New York and the United Nations headquarters to expand internship and job opportunities and promote in-depth communication with overseas alumni.



## Graduates of 2025

### Industry Distribution

TMT	34.6%
Technology Finance	15.5%
Investment Banks/Securities Company	15.5%
Asset Management	7.7%
Government Agencies/Public Institutions	7.7%

### Employment 100%



Quant	3.8%
Public Fund	3.8%
Insurance	3.8%
Embodied Intelligence	3.8%
Consultancy	3.8%

# HOW TO APPLY

## Qualifications

- 1 Non-Chinese citizens with valid personal ordinary-type passports.
- 2 Applicant should have a Bachelor's Degree or an equivalent degree to a Bachelor's Degree (or above) in China.
- 3 In good health and of good character, be well-behaved and be willing to abide by China's laws and regulations, as well as Tsinghua's rules.
- 4 No requirements for undergraduate major.

Requirements regarding years of naturalization and applicant status shall be detailed in the admission brochure of the respective year.

## Application Documents

- 1 Personal statement (Both English and Chinese)
- 2 Curriculum Vitae (Both English and Chinese)
- 3 Degree certificate and degree authentication
- 4 Academic transcript (English)
- 5 Three academic recommendation letters in English or bilingual (Chinese-English)
- 6 Language Proficiency Test score report
  - (1) HSK band 5-with a score of 180 or above.  
Can be waived:
    - undergraduate or master's study taught in Chinese;
    - particularly excellent in other aspects.
  - (2) English proficiency requirements: Valid TOEFL or IELTS score report (TOEFL: 100 or above; IELTS: 7.5 or above).  
Replacement plan for language score:
    - TOEFL iBT Special Home Edition: at least 100 and above
    - Score of PTE Academic: at least 69 and above
    - Score of Duolingo English Test: at least 135 and above
    - Applicants who have completed or are currently pursuing a bachelor's degree taught in English are exempt from submitting English proficiency test scores.

- 7 Passport (personal ordinary-type passport):  
Passport bio page
- 8 Other materials voluntarily submitted by individuals

## Application Schedule

- 1 **Application** Mid September to Late February
- 2 **Evaluation** March
- 3 **Admission** Late June to July

### Application System



<https://yzbm.tsinghua.edu.cn/intlLogin>



## Tuition Fee

### Tsinghua Phase

RMB 30,000/per year

### Columbia Phase

Please refer to the official website of IEOR, The Fu Foundation School of Engineering and Applied Science at Columbia University for the updated standard of tuition fees. (All expenses during the period at Columbia University, including tuition, living costs, transportation, and any other fees, are to be borne by the applicant.)

## Scholarships

Initiated from 2019

Exclusively for TCMiBA students

Around RMB 60,000 to 100,000



 U.S.  
**Jimmy**

TCMiBA Alumni, Class of 2024

As a 2024 Tsinghua-Columbia dual master's graduate, I leverage my interdisciplinary knowledge in CS, business, and data analytics from this program to excel as a data scientist at TikTok in Silicon Valley. The program fostered international exposure, cross-cultural competencies, and lasting professional networks, propelling my global career aspirations.

## **School of Economics and Management Tsinghua University**

### **Mission**

To Advance Knowledge and Cultivate Leaders for China and the World.

### **Aspiration**

To Be a World-Class School of Economics and Management.

### **Core Values**

Integrity Dedication Respect

### **Master's Programs Office**

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