Chinese Universities: Problems, COVID-19 & Efforts

Universidades Chinas: Problemas, COVID-19 y Esfuerzos

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ABSTRACT
It is necessary to know the state of the Chinese universities. In this paper the general objective was determine the situation of Chinese universities: Problems, COVID-19 & efforts. Methodology, in this research, 31 documents have been selected, carried out in the period 2016 - 2021; including: scientific articles, review articles and information from websites of recognized organizations. The keywords used in the searches were: Chinese universities and COVID-19. Results, China has approximately 2,845 universities, which are gradually improving their infrastructure and academic level. The percentage of women has increased (UIS.UNESCO, 2021). A close collaboration between the university and the industry was presented as they refer (Hou, Hong & Shi, 2021). Employers consider the University of Hong Kong to have the best graduates (SICAS, 2018). Difficulty deciding what to investigate. The situation in Chinese universities is stabilizing, after COVID-19 was presented, continuing with virtual courses and the intensive use of ICTs. In addition, the progressive opening of these institutions, monitoring the health of students and teachers. Conclusions, Chinese universities are ranking better in world rankings such as the QS World University Rankings. They are overcoming the limitations imposed by COVID-19. The number of graduates, researchers and patents is considerable and competes with the great powers of Europe, Asia and North America. In addition, some of its universities are achieving international recognition and have students from various parts of the world.

Keywords: Chinese universities, COVID-19.

1 INTRODUCTION
China is located at the east coast of the largest continent (Eurasia) as well as the western margin of the largest ocean (Pacific). It has a land area of about 9.6 million square km, occupying 6.5 percent of the total land area of the world…Its population of more than 1.3 billion accounts for approximately one-fifth of the world population (Campuschina, 2016).
84 different universities in China are featured in the QS World University Rankings by Subject 2020 and this year’s subject rankings cover 48 different subjects. With so much choice, it can be difficult to decide which university is right for you (Lane, 2021).

While the rapid expansion of non-English foreign language degree programs potentially enables Chinese universities to play a critical role in promoting the learning and teaching of non-English foreign languages in China, it has become imperative for these universities to engage in carefully coordinated efforts so that this growth can be sustained (Yawen, Xuesong & Jinyuan, 2019).

Findings reveal that the fundamental goal of academic personnel system reforms for leading Chinese research universities was to address increasing global competition and stimulate research outputs within a new managerial context (Wang & Jones, 2021).

We analyse data from 176 Chinese universities to examine the use of reputation symbols on official websites. We find that Chinese universities prefer professional and performative symbols more than moral symbols (Christensen & Ma, 2020).

Using panel data from 522 universities in China (2005 to 2015), this paper examines the effect of a university's name change on student admission scores… The results indicate that, in general, a name change did not significantly improve the admission score of the university (Shi, Liu & Kang, 2020).

This paper reports on a study that examines the plagiarism policies made publicly available by eight major universities of foreign studies in mainland China. Both the structure and content of these universities' policy documents are analyzed to identify institutional understandings of, attitudes toward, and sanctions on plagiarism (Guangwei & Xiaoya, 2017).

We collected student data from five public sector universities in Anhui Province, China, …we analyzed the collected quantitative data through multiple regression analysis. Our research results demonstrate that external and internal factors have a great influence on plagiarism (Fatima, Abbas, Ming, Hosseini & Zhu, 2019).

It is important to know the problem during the pandemic and the efforts of Chinese universities, in the current context.

2 METHODOLOGY

The research presents a qualitative-interpretative design, of a documentary type, which specified the selection procedure and the data recording (Barrero y Rosero, 2018).

In this research, 31 documents have been selected, carried out in the period 2016 - 2021; including: scientific articles, review articles and information from websites of recognized organizations. The keywords used in the searches were: Chinese universities and COVID-19. For the selection of the
documents, the following criteria were used: the year of publication, belonging to the research and being a reliable source. After reading each document, the data was entered into the bibliographic matrix, which is used to catalog the documents according to categories, which are presented in Table 1.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Objectives</th>
<th>Conclusions</th>
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Source: Adapted from Barrero & Rosero (2018).

3 RESULTS

The total number of universities in China is approximately 2845, with 13 types of buildings. The annual energy consumption is nearly 30 million tons of standard coal, and the water consumption is nearly 4 million tons. The total energy consumption accounts for 8% of the total social energy consumption (Liu & Ren, 2020).

![Figure 1. Tertiary education by sex](image)

Source: UIS.UNESCO (2021)

We found that the university–industry collaboration efficiency is determined by a university’s characteristics, scientific research fund from the government, and regional economic status. We also found heterogeneous effects across samples (Hou, Hong & Shi, 2021).

Finally, universities had for several years been improving their own technical preparedness for online learning. An example is Zhejiang University, which since 2018 had built a wide spectrum of smart classrooms, equipped with audio recognition and simultaneous interpretation (Varghese, 2021).
The ranking shows that employers consider Hong Kong University of Science and Technology (HKUST) to be the best Chinese institution at producing graduates with the skills they need for the workplace. HKUST was ranked 13th in this global ranking of 150 universities. The next five Chinese institutions...Peking University (17th), Fudan University (37th), Shanghai Jiao Tong University (53rd), Tsinghua University (59th) and National Taiwan University of Science and Technology (73rd) (SICAS (2018).
Renmin University of China (RUC) is the first comprehensive research university established by the People’s Republic of China. Its predecessor was Shanbei Public School, founded in 1937 (MACQUARIE University, 2021).

4 PROBLEMS

Three major dilemmas that may be created for Chinese HSS academics by their country’s aspirations for world-class universities… first, a highly centralised system restrains academics’ autonomy to decide what to research and where to publish. Second, they are conflicted by the need to simultaneously attend to nationalistic interests and publish internationally. Third, ideological correctness is highly important (Gao & Zheng, 2020).

The study revealed that Chinese academics are concerned about international students’ learning attitudes, their academic progress and a lack of participation due to their language ability. Local Chinese students also reported a lack of satisfaction in working with international students (Han, Li, Bao & Cao, 2020).

About the inefficiency and productivity of 64 Chinese research universities and their evolution over the recent period of 2010–2013,… the efficiency increased on average over the period of 2010–2013. However, technical changes for many universities were below zero, which led to technology deterioration on average (Yang, Fukuyama & Song, 2018).

5 COVID-19

Since the onset of the new coronavirus, Covid-19 in December last year, nearly every aspect of daily life in China has changed. .. suddenly, several hundred million students started taking classes via
web platforms. On 17 February, the internet crashed in China due to the sudden increase of users who were simultaneously logging in (Yu, 2020).

In view of the current pandemic by SARS-CoV-2 it deems essential to understand the key concepts about the infection: its epidemiological origin, presentation, clinical course, diagnosis and treatment (still experimental in many cases) (Rubio-Pérez, Badía, Mora-Rillo, Martin, García Rodríguez & Balibrea, 2020).

On September 18, the Ministry of Education told universities to "dynamically adjust campus control measures." For students who really need to enter and exit schools due to internships, job searches and other reasons, the procedures shall be simplified, said the notice. The ministry said that schools should "avoid a one-size-fits-all approach" in campus management (Shasha & Xi, 2020).

In these moving testimonials from international research students and staff in China, during the Covid-19 pandemic outbreak, we hear warm, individual tales of personal struggles, at the point when life and work changed beyond all recognition (Peters, Wang, Ogunniran, et al., 2020).

It was concluded that Chinese undergraduate students during COVID-19 outbreak showed higher anxiety. However, in general the psychological status of university students was fairly good, which laid a good foundation for the new term’s online-learning (Wang & Zhao, 2020).

The deadly coronavirus outbreak presents a host of challenges for different sectors of society. University campuses with their congregate settings are considered particularly susceptible to contagion. As China continues to battle the epidemic, universities across the country have followed public health guidance to shut campuses.

As the backbone of Chinese society, Chinese universities have made significant contributions to emergency risk management. Such contributions have been made primarily in the following areas: alumni resource collection, medical rescue and emergency management, mental health maintenance, control of staff mobility, and innovation in online education models (Wang, Cheng, Yue & McAleer, 2020).

The COVID-19 situation appears to be stabilizing in China and schools are gradually opening up to students after an extended winter/spring break. The next challenge for Chinese schools and institutions is to ensure campus safety and monitor the health of all students, faculty and staff as they return to face-to-face learning (Australian Government, 2020).

6 EFFORTS

In contrast, the contribution of universities in the USA/EU/Japan is significantly beneficial to foreign-invested firms. Collaboration with domestic universities has played a significant role in the diffusion of advanced technology in China (Fu & Li, 2016).
The evidence showed that there is a feedback channel between university patent commercialization and knowledge innovation, and new knowledge generated by the interaction with the outside world in the process of patent commercialization was transmitted to the subject of knowledge innovation through this channel, forming a virtuous dynamic cycle (Gong, Nie, Peng, Peng & Liu, 2020).

![Figure 5. Best Global Universities in China](source)

In this context, the Chinese Ministry of Education (MoE) and several education specialists and universities have started discussing the use of information and communication technology (ICT) to reform the entire educational system in the midst of this pandemic and provide online and distance learning instead, even with disrupted classes (Huang, Tlili, Chang et al., 2020).

With all the campuses closed, universities swung into action to open 24,000 online courses, including 1,291 of China’s ‘national excellence courses’ (competitive high-quality courses selected by the Ministry of Education) and 401 courses of virtual experimental simulations, provided on 22 platforms (Sun, Tang & Zuo, 2020).

China has approximately 2,845 universities, which are gradually improving their infrastructure and academic level. The percentage of women has increased (UIS.UNESCO, 2021). A close collaboration between the university and the industry was presented as they refer (Hou, Hong & Shi, 2021). Employers consider the University of Hong Kong to have the best graduates (SICAS, 2018). Difficulty deciding what to investigate. The situation in Chinese universities is stabilizing, after COVID-19 was presented,
continuing with virtual courses and the intensive use of ICTs. In addition, the progressive opening of these institutions, monitoring the health of students and teachers.

7 CONCLUSIONS

Chinese universities are ranking better in world rankings such as the QS World University Rankings. They are overcoming the limitations imposed by COVID-19. The number of graduates, researchers and patents is considerable and competes with the great powers of Europe, Asia and North America. In addition, some of its universities are achieving international recognition and have students from various parts of the world.
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