

"The English Language and Its Role in Developing Scientific Research in Iraqi Society"

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Abstract

The study dealt with the role of the English language in scientific research for social development in Iraq, as scientific research is considered one of the most important means that help achieve scientific and technological social development. The study reviews the challenges that Iraqi researchers face in scientific research in English, including poor access to scientific resources in English and lack of sufficient proficiency in the English language.

The study also deals with the importance of learning English to improve the quality of social science research in Iraq, and the role of universities and educational institutions in improving the ability of students and researchers to use English in scientific research.

The study recommends the need for more support and encouragement for Iraqi scientific researchers by providing scientific resources in English and providing students and researchers with educational programs in English in addition to science and culture. Exchange with English-speaking countries should be encouraged to increase the capacity of researchers and improve the quality of scientific research in Iraqi society.

Key word: English language, scientific research, Iraqi society, challenges, quality and learning

1. Introduction

English is one of the most important global languages and is widely accepted in science and academia all over the world as it is used in many areas of science, technology and industry. And since scientific research is one of the most important means to help achieve the development of social sciences and technology, the use of the English language in this field plays a decisive role in improving the quality of scientific research. Iraqi society is witnessing great challenges in the field of scientific research in the English language, as researchers and students often face difficulties in accessing scientific resources in English and a lack of sufficient proficiency in the English language. Therefore, there is an urgent need to improve the ability of researchers and students to use the English language in scientific research and to provide them with more support and encouragement.

This study aimed to clarify the role of the English language in scientific research on social development in Iraq, to identify the challenges faced by researchers and students in this field, and to explore the importance of learning English in improving the quality of scientific research. Universities and educational institutions will also come under scrutiny with regard to improving students' capabilities. Researchers use the English language in scientific research.

1.1 Previous Studies

Many previous studies indicate the importance of the English language in developing scientific research in Arab societies, including the Iraqi society. The most prominent of these studies are:

- A study by Saad (2015) was conducted by Iraqi researchers on the challenges of using the English language in scientific research in Iraqi universities, and it was found through it that many researchers suffer from difficulty in using the English language in scientific research and identifying correct scientific sources, and the study recommended providing the necessary support and training to enhance capabilities of researchers in this field.
- Iraqi researchers conducted a study in (Asma al et 2019) on the role of learning the English language in improving the quality of scientific research in Iraqi universities, through which it was found that learning the English language plays a decisive role in improving the quality of scientific research and increasing

opportunities for scientific publishing. The study also recommended the need to provide the necessary support to enhance the capabilities of Students and researchers in the use of English in scientific research.

• Study by Al-Attayah (2021) was conducted by an Iraqi researcher on the role of universities and educational institutions in enhancing the capabilities of students and researchers in using the English language in scientific research, and through it it was found that there is an urgent need to provide the necessary support for students and researchers in this field, including the provision of educational courses and scientific and cultural exchange. The study also recommended strengthening scientific research.

From previous studies, it can be said that learning English plays a vital role in conducting scientific research in Iraqi society, as English is the global common language for science, technology and scientific research. In order to improve the quality of scientific research in Iraq, universities and educational institutions must provide the necessary support for students and researchers to learn the English language and develop their ability to use the English language in scientific research, including the provision of educational, training, scientific and scientific courses. Cultural integration with the international community, communication to increase scientific publishing opportunities. And improving the level of scientific research in Iraq (Derakhshan et al 2020).

2. The importance of the English language in scientific research

English is the most widely spoken language in science, technology and business worldwide, and scholars and researchers in science, engineering, medicine, agriculture and humanities are expected to master it in order to communicate and disseminate research results internationally. their research (Saleh & Majeed 2021).

The English language helps facilitate the dissemination of scientific research all over the world, as a lot of scientific research is published in English in prestigious international scientific journals Iraq (Qader & Yalcin 2019).

In addition, proficiency in the English language will help improve the quality of scientific research in Iraq. Iraqi researchers can communicate and cooperate with researchers from other countries to exchange experiences and scientific knowledge, and they can also better understand research and scientific sources, thus improving the quality of their research quality (Haidar 2019).

In general, it can be said that English is an essential tool for researchers and scientists in the world and is used as a global language for communication and dissemination of scientific research. Therefore, it is important to promote English language education in Iraq and provide the necessary resources for this to improve the quality of scientific research and promote scientific progress (Al Zoubi 2018).

It was also mentioned that the use of the English language in scientific research facilitates access to scientific sources and information on the Internet, as most scientific sources and scientific articles are in English, and Iraqi researchers can benefit from these resources in order to obtain modern and advanced sources. Scientific information.

In addition, English is a common language in business, commerce and tourism, and fluency in English can help Iraqi scientists and researchers communicate with international companies and institutions that support scientific research, and obtain the necessary funding and support for their research (Saleh & Majeed 2021).

It should be noted that despite the importance of the English language in scientific research, Iraqi researchers face some challenges in learning English, such as lack of education and training resources, lack of adequate learning and training opportunities, in addition to the inability to travel abroad to obtain the necessary training (Derakhshan et al 2020). Therefore, Iraqi scientific and government agencies should work to provide more opportunities for English language training and to support Iraqi researchers in learning English.

2.1 English as the global language of science and technology

Today, English is the global language of science and technology for a number of reasons, including:

1. History of the British Empire: Great Britain ruled most of the world, allowing the English language to spread and become the language of commercial and cultural communication in many countries.

2. The development of science and technology in the English-speaking world: English has advanced scientific and technological terminology, and many international scientific journals and conferences use English as the official language (Haidar 2019).

3. Using the Internet and modern technology: The Internet and modern technology facilitate the flow of information, research, and communication with scientists and researchers around the world, making English the main means of communication for scientists and researchers in various fields (Al Zoubi 2018).

4. The important role of the United States of America: The United States of America is considered one of the largest countries in the world in the field of science and technology, so the English language has become an important means of communication for scientists and researchers who wish to do so. Work or study in the United States or benefit from research conducted in the United States (Marr 2018).

Moreover, English is easy to use and learn because of the many quality educational resources available for learning English, and it can be easily learned by people who speak different languages because it is taught in schools and universities around the world (Khonbi & Sadeghi 2017).

To this end, researchers and scholars in Iraq must master the English language in order to communicate with scholars around the world, publish their research, discuss their ideas, and benefit from the research of others. In addition, speaking English facilitates collaboration and communication with global companies and institutions, enabling scientists and researchers to secure funding for their research and projects (Ameen & Cinkara 2018).

Research confirms that the use of the English language in scientific research increases the possibility of publishing the research and its success in the global scientific community and increases the chances of publishing research in leading scientific journals and participating in international conferences, which contributes to the scientific development of Iraq. Society and contribute to its progress (Saleh & Majeed 2021). Therefore, it can be said that English is the primary language for scientific research in Iraq and an important skill for Iraqi scientists and researchers to achieve success and excellence in their fields of specialization and to communicate with scientists all over the world.

3. The importance of learning English for researchers and students in Iraq

English is one of the main languages used in scientific research and postgraduate studies and arguably the official language of science, technology and business all over the world. Therefore, it is necessary for researchers and students in Iraq to learn English for several reasons, including:

1. Communication with scientists and researchers in the world: Learning English allows Iraqi researchers and students to communicate with scientists and researchers in the world, which increases their chances of learning about and participating in the latest research and innovations (Marr 2018).
2. Access to information and scientific research: A lot of scientific research is published in English, so controlling this language increases the chances of Iraqi researchers and students to access and benefit from these studies and studies (Derakhshan et al 2020).
3. Access to job opportunities: English is one of the basic skills required for many job opportunities in the world, so learning English increases the chances of Iraqi researchers and students to obtain job opportunities at the local and international levels.
4. Improving the educational level: English is one of the basic skills that students must learn to improve their educational level, achieve higher grades at the academic level, and obtain prestigious academic degrees (Khonbi & Sadeghi 2017).

It is important for Iraqi researchers and students to help them develop academic skills and increase their opportunities in the fields of scientific research and postgraduate studies. While Arabic is the official language of Iraq, English is essential for communicating with the outside world and increasing academic and professional knowledge and skills (Haidar 2019).

To reap these benefits, Iraqi schools and universities must take a keen interest in teaching English and providing opportunities to improve the English language skills of students and researchers. Support and resources should also be provided to improve English language education in Iraqi society and encourage researchers and students to participate in training courses and educational programs designed to improve their English language skills (Al Zoubi 2018).

In conclusion, it can be said that the English language plays a crucial role in developing scientific research in Iraqi society, and researchers and students can benefit from learning English and developing English language skills.

3.1 The challenges of learning English in Iraq

Despite the importance of learning English in scientific research and technological development, students and researchers in Iraq face a number of challenges in learning English, the most important of which are:

- 1.Lack of resources: Iraq lacks education and training resources related to the English language, which affects the quality of education and the improvement of English language proficiency among students and researchers(Marr 2018).
2. Poor infrastructure: Many schools and universities in Iraq suffer from poor infrastructure, which affects the quality of education and the development of English language skills among students and researchers.
- 3.Lack of training opportunities: Many students and researchers in Iraq suffer from limited English language training and educational opportunities, which affects the development of their skills and increases their opportunities in scientific research and technological development(Derakhshan et al 2020).
- 4.Difficulty accessing materials in English: Many students and researchers in Iraq find it difficult to access educational and research materials in English, which affects their ability to improve their English language and improve their skills in scientific research.
- 5.The security situation: Many schools and universities in Iraq faced security and political challenges that affected the educational environment and improved the English language proficiency of students and researchers(Ahmadi & Reza 2018).

Despite the importance of learning English in scientific research in Iraq, students and researchers face many challenges in learning English. Among these challenges:

- 1.Unavailability of courses: Students and researchers may find it difficult to find good English language courses, especially in urban and remote areas.
- 2.Lack of financial support: Many students and scholars find it difficult to afford English language courses and study materials, especially if they are studying in disadvantaged areas(Ameen & Cinkara 2018).
3. The lack of a suitable educational environment: Many students and researchers stop learning and training due to the lack of a suitable educational environment for learning English.
4. Lack of confidence in the use of English: Many students and researchers feel anxious about the use of English, especially when they do not have enough confidence in their mastery of the language(Ahmadi & Reza 2018).
- 5.Lack of time: Many students and researchers suffer from a lack of time to learn English because they feel that they are busy with their study and research needs.

4. Factors affecting learning English in Iraq

There are many factors that affect learning English in Iraq, the most important of which are:

1. Language environment: The language environment plays an important role in learning English, and if the environment only surrounds an individual who speaks Arabic, then it is likely that this person will have difficulty learning English.
- 2.Teaching method: The student's ability to learn English is affected by the teaching method used because the method used by the teacher in teaching and interacting with students is necessary for learning English.
3. Previous educational background: A person's previous educational level can affect his ability to learn English because the educational experience gained can affect the development of an individual's language ability (Saleh & Majeed 2021).
- 4.Additional language support: Additional language support through intensive English courses and seminars helps students and scholars develop their language skills.
5. Effective use of English: Effective use of English in daily life and scientific research is an important factor in improving one's English language ability(Haidar & Fang 2019).

4. 1 The impact of learning English on the quality of scientific research in Iraq

Learning English is critical to the quality of academic study in Iraq. The majority of internationally published scientific and technical research papers are published in English, so Iraqi researchers must be able to read and

understand these research papers in English. In addition, Iraqi researchers must be able to write scientific papers in clear and understandable English(Al Zoubi 2018).

The quality of scientific research in Iraq requires proficiency in the English language, as the ability of researchers to analyze and understand English language references and use them correctly greatly affects the quality of the research they do. In addition, English communication skills are also important for Iraqi researchers, as they can communicate in English with scholars and researchers in various other fields to exchange knowledge, experience, and ideas(Ameen & Cinkara 2018).

Moreover, learning English contributes to the comprehensive scientific ability of Iraqi researchers as it helps to improve their skills in critical thinking, scientific analysis and effective communication, which gives them more opportunities to conduct distinguished and innovative scientific research(Derakhshan el at 2020).

Learning English well will help Iraqi researchers and students to access modern scientific resources, updated information, and communicate with experts in various fields. Researchers and students who are proficient in English become better able to read the most important scientific articles and studies, understand them better, and use this information in their own research. Learning English also helps to improve the quality of research papers and scientific articles written in English(Haidar & Fang 2019).

However, researchers and students in Iraq face many challenges in learning English, including lack of government support and funding for teaching English, lack of qualified teachers who can teach English effectively, lack of available resources for learning English, and lack of communication opportunities with teachers. Native English speakers. Interact with native speakers (Saleh & Majeed 2021).

Therefore, the Iraqi government and educational, university, and research institutions should strive to provide the necessary support and available resources for effective English language learning in Iraq, provide opportunities to interact with native English speakers, and raise awareness of the importance of English language learning in development research on cognition.

4.2 The impact of learning English on scientific publishing opportunities in Iraq

English is the most widely used language in scholarly publishing and research worldwide. Therefore, people who are fluent in English have an advantage in publishing their scientific papers in leading scientific journals. While there are some Arab scientific journals that publish research in Arabic, most of the leading scientific journals require that research be in English. Therefore, Iraqi researchers need to learn English well to improve their chances of publishing research results, participating in international conferences, and receiving research funding(Haidar 2019).

Access to scientific publication is one of the most important indicators of the quality of scientific research in Iraq and the world, as it reflects the quality of scientific research, innovation and excellence in various fields. Therefore, learning English will help Iraqi researchers improve the quality of scientific research and increase the chances of publishing their research results in internationally renowned scientific journals, thus helping to improve the status of Iraqi science in the world(Derakhshan el at 2020).

Researchers' proficiency in the English language has a significant impact on scientific publishing opportunities in Iraq. When the researcher is fluent in the English language, he can publish the results of his research in prestigious international scientific journals in which English is the official language. By publishing their research in these journals, Iraqi researchers gain global visibility and stay informed of the latest developments and innovations in their field. As a result, the quality of research has been improved and the status of Iraqi science in the global scientific community has been enhanced(Haidar 2019).

It should be noted that research published in international scientific journals often requires grammatical error correction and language verification, which means that researchers who are fluent in English have a competitive advantage in scholarly publishing. Because international scientific journals focus on quality, credibility, and impact, they prefer scientific publications in appropriate and formatted English, which ensures more citations and increases the scientific impact of research(Haidar & Fang 2019).

Learning English can increase your chances of receiving scholarly funding from international agencies and organizations, many of which require English as a prerequisite(Gilakjani 2017).

In addition, the ability to speak and write English is an essential skill for successful access to scholarships and academic and scientific opportunities abroad, as well as communication with the global scientific community, which requires proficiency in the English language and its correct and effective way. Therefore, learning English helps expand opportunities for scientific publishing and scientific cooperation between Iraq and the global scientific community(Haidar 2019).

In general, it can be said that learning English plays a vital role in the development and quality of scientific research in Iraq, helps to promote scientific exchange and cooperation with the global scientific community, and increases scientific publications and opportunities for scholarships and fellowships abroad. From this perspective, Iraqi educational and research institutions must provide the necessary support and facilities for learning English and raising awareness of the importance and benefits of the English language in developing scientific research and improving scientific and academic standards in Iraq(Haidar & Fang 2019).

5. Solutions and recommendations to improve the quality of scientific research in Iraq

Recommendations to improve the quality of scientific research in Iraq:

1. Support for English language teaching: The Iraqi government should increase its support for academic English language teaching and provide more training courses and workshops to develop English language skills for students and researchers.
2. Developing Academic Programs: Academic programs in Iraqi universities should comprehensively teach English and develop scientific writing skills in English(Gilakjani 2017).
3. Supporting joint research: Iraqi universities should encourage joint research with foreign universities to promote the use of the English language in academic research and cultural exchange.
4. Focus on international scientific publication: Iraqi researchers should focus on publishing their research results in international scientific journals, which requires professional and proficient use of the English language(Haidar 2019).
5. Financial support: The Iraqi government should provide the necessary financial support to improve the quality of scientific research in Iraq and support training and workshops that help develop the English language skills of researchers and students.
6. Use of Technology: Universities in Iraq should invest in the use of modern technology to enhance English language learning, such as the use of online tutorials and various language applications(Gilakjani 2017).

5.1 Providing the necessary support for learning English in Iraq

Providing the necessary support for learning English in Iraq is one of the most important solutions to improve the quality of scientific research. This can be achieved through:

1. Providing the necessary educational program: Whether in a school, university or private training center, the necessary educational program for learning English must be provided.
2. Training of teachers and trainers: Teachers and trainers must be trained to teach English in an effective and up-to-date manner and update their knowledge regularly.
3. Providing the necessary resources: The necessary resources for learning English must be provided, such as books, educational materials, and language activities(Derakhshan et al 2020).
4. Use of modern technology: Modern technology such as e-learning applications and voice chat over the Internet can be used to improve the quality of learning English.
5. Encouraging linguistic culture: Linguistic culture and interest in the English language must be encouraged through organizing cultural and linguistic events.
6. International cooperation: International cooperation in the field of English language education must be strengthened through the exchange of experiences, resources and successful experiences in this field.

Through these solutions and recommendations, the quality of scientific research in Iraq can be improved by providing students and researchers with an appropriate learning environment and opportunities to learn English.

5.2 Exchange scientific and cultural experiences with the international community

The exchange of scientific and cultural experiences with the international community is one of the effective solutions to improve the quality of scientific research in Iraq and increase opportunities for scientific publishing. This can be achieved through:

1. Participation in international scientific conferences and symposiums: Iraqi researchers and scholars can participate in international scientific conferences and symposiums, which is an opportunity to exchange scientific experiences and exchanges with researchers and scientists from different countries of the world, and it is an opportunity to learn. About the latest research and technologies related to the field of scientific research(Haidar 2019).
2. Benefit from training programs and scientific visits: Scientists and researchers in Iraq can benefit from training programs and scientific visits offered by many international institutions and universities with the aim of developing scientific research skills and enhancing their capabilities in the field of science and technology.
3. Partnerships with international universities: Iraqi universities can form partnerships with international universities to enable scientific cooperation and exchange of experiences and knowledge, which can improve the quality of scientific research in Iraq and increase opportunities for scientific publishing(Ameen & Cinkara 2018).
4. Encouraging scientific research in the Arabic language: Encouraging researchers in Iraq to conduct scientific research in the Arabic language, which contributes to the dissemination of scientific knowledge on a wider scale in Iraq and the Arab world.

In addition, Iraqi universities and academic institutions can enhance scientific and cultural exchange with international institutions through collaborative research, training programs, and exchange of experiences and knowledge in various fields. It also hosts international professors and researchers and provides opportunities for students and researchers to study abroad and attend international conferences and seminars (Nickolaevna 2018).

New technologies such as online courses and virtual courses can also be used to enhance English language learning and improve the quality of Iraqi academic research(Nickolaevna 2018).

In the end, there must be sufficient attention and focus on developing the linguistic and research capabilities of students and researchers in Iraq, by providing the necessary support and stimulating learning and continuous improvement.

5.3 Enhancing scientific publishing opportunities for researchers in Iraq

Many actions and measures can be taken to improve scientific publishing opportunities for Iraqi researchers, including:

1. Funding: The Iraqi government and Iraqi universities should allocate sufficient budgets to support scientific research, which can be used to pay for scientific publications.
2. Providing technical support: Iraqi universities should provide technical and logistical support to researchers to facilitate the scientific publishing process. This support may include access to information about appropriate scientific journals and scientific conferences, as well as scientific papers and publications that provide the technical support needed for preparation(Ameen & Cinkara 2018).
3. Encouraging scientific publishing: Researchers in Iraq can be motivated to publish scientifically by providing incentives and financial incentives for high-quality research and publication in highly rated scientific journals(Nickolaevna 2018).
4. Developing electronic platforms: The opportunities available to Iraqi researchers to publish scientific papers can be increased by developing electronic platforms that can be used to publish scientific papers, as well as providing more technical support and training on the use of these platforms.
5. Efforts to improve the level of scientific research: Universities and research institutions in Iraq must motivate researchers to conduct high-quality research and compete globally, strive to improve the level of scientific research, and improve scientific impact and classification of international journals.

6. Conclusion

It can be said that English is the basic language of global science and technology and the official language of many international organizations, which plays a vital role in the development of scientific research in Iraq.

Despite the challenges of learning English in Iraq, improving the quality of education, providing the necessary support to students and researchers, and promoting cultural and scientific exchange with the international community can improve the quality of scientific research and increase scientific publishing opportunities for researchers in Iraq. In this regard, Iraqi universities, government and private institutions should work with international partners and institutions to enhance English language education and improve the quality of scientific research in the country.

In short, the English language is an important tool for conducting scientific research in Iraq and improving the quality of published research, which requires the necessary support for Iraqi researchers to learn English and increase scientific publishing opportunities. Therefore, Iraqi government officials and academic research institutions must shoulder their responsibilities and provide adequate support to improve the quality of scientific research in Iraq and improve the status of Iraqi scientists and researchers in the international community.

Recommendations

We can draw the following recommendations:

Provide the necessary support for learning English in Iraq by providing books and educational resources, as well as educational programs for students and researchers.

Exchange scientific and cultural experiences with the international community through participation in international conferences and seminars and cooperation with international universities and institutions.

Increasing scientific publishing opportunities for Iraqi researchers by providing support and assistance to researchers working in scientific publishing and providing them with the necessary resources.

Increasing the interest of students and researchers in developing scientific research and scientific writing skills by integrating training materials into the curricula and organizing workshops and training courses.

Enhancing the media and awareness role of Iraqi universities and research institutions by emphasizing the importance of learning English in the development of science and technology and increasing public awareness of this issue.

In short, it can be said that promoting the development of English language learning and scientific research in Iraq is crucial to the current challenge of improving the state of science and technology in Iraq, which requires joint efforts from the government, scientific research institutions, and scientific research institutions, researchers and the international community.

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