

إلى من يهمه الأمر To whom it may concern

السيرة الذاتية: التاريخ العلمي والوظيفي
ملف الأنشطة الأكاديمية و مجمل الإنتاج العلمي
للأستاذ الدكتور/ سحر محمد علي أبو بكر
أستاذ الرياضيات البحتة (تخصص تحليل دالي)
قسم الرياضيات - كلية العلوم - جامعة عين شمس
خلال السنوات الجامعية (1990-15/June/ 2026)



Curriculum vitae: Scientific and career history, file of academic activities and overall scientific production By Professor Dr. Sahar Mohamed Ali Abou Bakr Professor of Pure Mathematics (Specialization in Functional Analysis) Department of Mathematics - Faculty of Science - Ain Shams University During the university years (1990-15/June/ 2026)

University: Ain Shams University, Faculty of Science, Cairo, Egypt.

Department: Department of Mathematics

Full Name: Sahar Mohamed Ali Abou Bakr

Academic Rank: Ph. D

National ID No: 26804190102025

Phone No : 01007619537

Job Title: Professor of Pure Mathematics and head of the Department of Mathematics

Nationality: Egyptian

Sex: Female

Marital Status: Married with three children

Date of Birth: 19/04/1968

Email: saharm_ali@yahoo.com & saharm_ali@sci.asu.edu.eg

Google Scholar: https://scholar.google.com/citations?hl=ar&user=cAjKLNQAAAAJ&view_op=list_works
<https://scholar.google.com/citations?hl=en&pli=1&user=cAjKLNQAAAAJ>

Orcid: <https://orcid.org/0000-0003-4468-8030>

Scopus Author: <https://www.scopus.com/authid/detail.uri?authorId=7403093776>

ResearchGate: <https://www.researchgate.net/profile/Sahar-Mohamed-Ali-Abou-Bakr/research>
https://www.researchgate.net/profile/Sahar-Mohamed-Ali-Abou-Bakr?ev=hdr_xprf

Profile on university's website: <https://www.asu.edu.eg/staffPortal/en/staffProfile/11049>;
<https://shams.academia.edu/SaharMohamedAliAbouBakr>

AIN SHAMS SCHOLAR: <http://research.asu.edu.eg/>, <https://research.asu.edu.eg/cris/rp/rp11733>

Job Description: Prof. Dr. Sahar Mohamed Ali Abou Bakr, professor of pure mathematics, department of mathematics - faculty of science - Ain Shams University since 1990 till now, she is responsible for teaching some pure mathematical courses for under-graduate and post-graduate students, supervising projects, M. Sc, Ph. D thesis, presenting, authoring some research papers and books, her major fields of studies are functional analysis, fixed and coupled fixed point theories and their applications in approximation, optimization and differential equations. She positioned as head of the department of mathematics from 1 August 2022 to 31 July 2025.

Experience (Previous employments and 33-years experience)

Name of Institution	Location	Position	From-To
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Demonstrator	1990-1995
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Lecturer Assistance	1995-1999
Tokyo Institute of Technology	Tokyo, Japan.	Visiting professor	1999-2002
Ain Shams University Faculty of Science.	Cairo, Egypt.	Lecturer	2002-2009
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Assistance professor	2009-2022
PSU University for Women	Riyadh, Saudi Arabia	Associate Professor	2008 - 2010
Tiba University	Madina, Saudi Arabia	Associate Professor	2010- 2012
PSU University for Women	Riyadh, Saudi Arabia	Associate Professor	2013 - 2014
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Professor of science in pure mathematics	Since 28 March 2022
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Head of the department of mathematics	From 1 Aug 2022 To 31 July 2025

Qualifications / Education

Institute	Location	Degree	Field	Date	Month- Year
Ain Shams University, Faculty of Science.	Cairo, Egypt.	B.Sc. Excellent with honor	Pure and Applied Mathematics	October; 1987. May; 1990.	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Post Graduate Courses.	Pure Mathematics	October; 1992. Sep; 1993.	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	M.Sc.	Pure Mathematics (Functional Analysis)	October; 1993. May; 1995.	
Channel system protocol, Ain Shams University Faculty of Science. And Tokyo Institute of Technology, Tokyo, Japan.	Cairo, Egypt and Tokyo, Japan.	Registration and preparation for Ph.D	Pure Mathematics (Functional Analysis)	October; 1996. June; 2002.	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Lecturer	Pure Mathematics (Functional Analysis)	December 2002	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Assistance professor	Pure Mathematics (Functional Analysis)	December 2009	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Professor of science	Pure Mathematics (Functional Analysis)	Since 28 March 2022	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Head of the department council of mathematics	Pure Mathematics (Fixed point theory)	from 1/ Aug/ 2022 to 31/July/2025	
Ain Shams University, Faculty of Science.	Cairo, Egypt.	Professor of science of pure mathematics	Pure Mathematics (Functional Analysis) (Fixed point theory)	from 31/July/2025 till now	

عنوان رساله الماجستير : عربى : عن الجداء الموتر لفراغات بناخ و بعض التطبيقات

Master thesis title: On Tensor Products of Banach Spaces and Some Applications : إنجليزى :

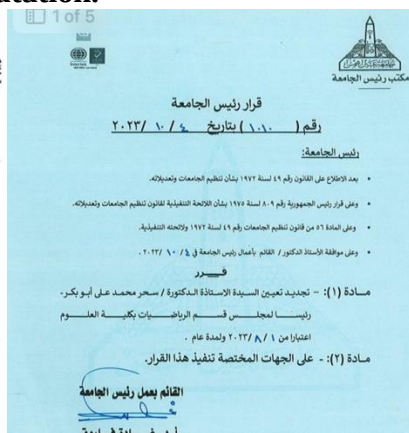
عنوان رسالة الدكتوراه : عربى : الثوابت الأسقاطية لبعض الفراغات التوبولوجية

PhD Thesis Title: Projection Constants of Some Topological Spaces : إنجليزى :

أولاً: نبذة تمهيدية مختصرة

تولت الأستاذة الدكتور/ سحر محمد علي أبوبكر رئاسة قسم الرياضيات و مجلسه الموقر ابتداء من 1/ أغسطس/ 2022 حتى 31/ يوليو/ 2025 بكل نشاطاته و فاعلياته الإدارية و أداء الأعباء التدريسية و الإشراف العلمي على الرسائل كما و أيضا قامت بنشر قائمة جيدة من الأبحاث في بعض المجلات العلمية العالمية المدرجة في موسوعة إسكوبس Scopus و موسوعة كلاريفت أناليتكس Clarivate Analytics و التي تتمتعان بسمعة طيبة.

Prof. Dr. Sahar Mohamed Ali Abu Bakr assumed the presidency of the Department of Mathematics and its esteemed council starting from 1/ August/ 2022 until 31/ July/ 2025 with all of its commitments, activities and events, she performed all her teaching duties and scientific supervision of thesis, on the other side she published a good list of research papers in some international journals listed in Scopus and Clarivate Analytics data basis, whose are enjoying a good reputation.



تهنئة خاصة من سيادة العميد لتعيين أ.د/ سحر محمد علي أبوبكر رئيس لقسم الرياضيات في 4 أكتوبر 2023.

Special congratulations from the Dean on the appointment of Prof. Dr. Sahar Mohamed Ali Abou Bakr, Head of the Mathematics Department, on October 4, 2023.

<https://science.asu.edu.eg/ar/news-details/169/%D8%AA%D9%87%D9%86%D8%A6%D8%A9-%D8%A3%D9%82%D8%B3%D8%A7%D9%85%D8%A7%D9%84%D9%85%D9%8A%D9%83%D8%B1%D9%88%D8%A8%D9%8A%D9%88%D9%84%D9%85-%E2%80%93%D8%B9%D9%84%D9%85-%D8%A7%D9%84%D8%AD%D8%B4%D8%B1%D8%A7%D8%AA-%E2%80%93%D8%A7%D9%84%D8%B1%D9%8A%D8%A7%D8%B6%D9%8A%D8%A7%D8%AA-%E2%80%93%D8%A7%D9%84%D8%AC%D9%8A%D9%88%D9%84%D9%88%D8%AC%D9%8A%D8%A7-%D8%A7%D9%84%D9%81%D9%8A%D8%B2%D9%8A%D8%A7%D8%A1>

تهنئة خاصة من سيادة العميد لتجديد تعيين أ.د/ سحر محمد علي أبوبكر رئيس لقسم الرياضيات في 1 أغسطس 2024.

Special congratulations from the Dean on the renewal of the appointment of Prof. Dr. Sahar Mohamed Ali Abou Bakr, Head of the Mathematics Department, on August 1, 2024

<https://science.asu.edu.eg/ar/news-details/196/%D8%AE%D8%A7%D9%84%D8%B5-%D8%A7%D9%84%D8%AA%D9%87%D9%86%D8%A6%D8%A9-%D8%A8%D8%AA%D8%B9%D9%8A%D9%86%D8%A7%D8%AA-%D8%A7%D9%84%D8%A3%D8%B3%D8%A7%D8%AA%D8%B0%D8%A9-%D8%A7%D9%84%D8%A3%D9%81%D8%A7%D8%B6%D9%84>

كانت نتيجة الاستبيانات عن التقييم للأداء الوظيفي لها كأحد القادة التي تعتمد عليهم الكلية و حسب إستبانه رضاء الكوادر الأكاديمية من أعضاء هيئة التدريس و الهيئة المعاونة كالتالي:



العضوان: الخليفة المأمون – العباسية – القاهرة – الحرم الجامعي- جامعة عين شمس- كلية العلوم – قسم الرياضيات
Address: Ain Shams University, Faculty of Science, Department of Mathematics, Abasia Street-Cairo-Egypt
Postal Code: 11566 354-352 Tel: (202) 24821031- 24821633- 24821096 -LAP (24647373) تليفون: 11566 الرمز البريدي:
maths@sci.asu.edu.eg and <https://science.asu.edu.eg/>

maths@sci.asu.edu.eg and <https://science.asu.edu.eg/>

[illegible]

ميداليات و تكريمات:

(1) تسلمت ميدالية جامعة عين سمش كلية العلوم مع شهادة التقدير على ما بذلت من مجهوداتها الملحوظة في تأهيل كلية العلوم على النحو الأمثل مما ساهم بشكل كبير في حصول الكلية على شهادة الجودة و الإعتماد من معالي رئيس جامعة عين شمس و بعض القادة من الجامعة ضمن فعاليات احتفالية الجامعة بمناسبة حصولها على الاعتماد الأكاديمي المحلي 2016.

(1) She received the Ain Shams university (Faculty of Science) Medal with a certificate of appreciation for her remarkable efforts in qualifying the Faculty of Science in the best possible way, which contributed significantly to the Faculty obtaining the quality certificate and accreditation from the President of the University and some leaders from Ain Shams University, as part of the university's celebration activities for obtaining local academic accreditation in 2016.

(2) حاصلة على ميدالية جمعية الرياضيات المصرية بالشكر و العرفان لمجهوداتها الفاعلة في أنشطة الجمعية 2024.

https://egmaths.com/?p=2871&fbclid=IwZXh0bgNhZW0CMTEAAR1G0vnz4wa_hVUdrI9KpUR_YS2b7yMGYoWfXsN-RWCdrSiaFSjKRqtwyxs_aem_6o99bOrBv-kPShcwSj2vTw&sfnsn=scwspwa&mibextid=VhDh1V

(2) She received the Egyptian Mathematical Society Medal of Thanks and Appreciation for her great efforts in the Society's activities on July 20, 2024.



(3) قام سيادة عميد كلية العلوم بتكريم ا. د/ سحر محمد علي أبوبكر على هامش إجتماع مجلس كلية العلوم في شهر سبتمبر 2025 بحضور كوكبة من الأساتذة و الزملاء أعضاء المجلس الموقرين نظرا لإنهاء فترة رئاسته سيادتها على مدار ثلاث سنوات متتالية مع العديد من تطوير قسم الرياضيات خدمة للعملية التعليمية للقسم، حيث حصلت على درع الجامعة و شهادة تقدير لسيادتها، بالخبر على

<https://cairo7.net/%d8%b9%d9%85%d9%8a%d8%af-%d8%b9%d9%84%d9%88%d9%85-%d8%b9%d9%8a%d9%86-%d8%b4%d9%85%d8%b3-%d9%8a%d9%83%d8%b1%d9%85-%d8%a7%d9%84%d8%af%d9%83%d8%aa%d9%88%d8%b1%d8%a9-%d8%b3%d8%ad%d8%b1-%d8%a3%d8%a8%d9%88>



The Dean of the Faculty of Science honored Professor Dr. Sahar Mohamed Ali Abubakr on the sidelines of the Faculty of Science Council meeting in September 2025, in the presence of a distinguished group of professors and colleagues, members of the esteemed council. This recognition was given in appreciation of her three-year term as head of the Mathematics Department, during which she made significant contributions to the development of the department's educational process. Professor Dr. Abuo Bakr received the university shield and a certificate of appreciation.

(4) تم تكريم ا. د/ سحر محمد علي أبوبكر على هامش عمومية جمعية الرياضيات المصرية في الموافق 18 سبتمبر 2025 كمشرفا لأفضل رسالة دكتوراة الفلسفة في الرياضيات البحتة للدكتورة/ سهاد سلامة المصري محكمة من اللجنة الوطنية المصرية للرياضيات و الحاصلة على جائزة أ.د/ إنتصارات محمد حسن الشبكي، حيث تسلمت الاستاذ الدكتور شهادة تقدير و ميدالية جمعية الرياضيات المصرية من سعادة رئيس اللجنة الوطنية للرياضيات د/ فايد فائق محمد غالب و بحضور سيادة عميد كلية العلوم أ.د/ محمد رجاء محمد السطوحى و سعادة الاستاذ الدكتور/ محمد صبري عبد المطلب عالم الكيمياء الكبير بالكلية

ومؤسس مركز الطاقة الضوئية بجامعة عين شمس أ.د/ محمد صبرى عبدالمطلب راعى الجائزة إحياء لذكرى زوجته الاستاذ الدكتور/ إنتصارات محمد حسن الشبكي (رحمة الله عليها)، بالخبر على <https://egmaths.com/?p=3909>

(4) Professor Dr. Sahar Mohamed Ali Abuo Bakr was honored on the sidelines of the General Assembly of the Egyptian Mathematical Society on September 18, 2025, as the supervisor of the best PhD dissertation in pure mathematics by Dr. Suhad Salama Al-Masry, a reviewer from the



Egyptian National Committee for Mathematics, and recipient of the Professor Dr. Intisar Mohamed Hassan Al-Shabaki Award. Professor Dr. Abubakr received a certificate of appreciation and a medal from the Egyptian Mathematical Society Dr. Fayez Fayek Mohamed Ghaleb, in the presence of the Dean of the Faculty of Science, Professor Dr. Mohamed Ragab Mohamed El-Satouhy, and Professor Dr. Mohamed Sabry Abdel-Mottaleb, the renowned chemist at the Faculty and founder of the Photovoltaic Energy Center at Ain Shams University, Professor Dr. Mohamed Sabry Abdel-Mottaleb, the award's sponsor, in memory of his wife, Professor Dr. Entisar Mohamed Hassan El-Shabaki (may God have mercy on her), as reported in the news on <https://egmaths.com/?p=3909>

(5) She has received many shields of thanks and appreciation from many events in which she participated over many years.

ثانيا: الأنشطة التدريسية التعليمية:

Second: Teaching and Educational Activities:

(1)-مسئوليات العمل من مقررات و أداء وظيفي

(1)-Work responsibilities and job performance

الأستاذ الدكتور مسؤلة عن تدريس العديد من المقررات الدراسية الخاصة بشعبة الرياضيات البحتة والدراسات العليا فى قسم الرياضيات منها على سبيل المثال:

Responsible for teaching many pure mathematical courses in department of mathematics for graduate and under graduate students, for example:

- ❖ Analytical Geometry.
- ❖ Algebra (Linear and nonlinear).
- ❖ Advanced Differentiation and Integration.
- ❖ Calculus.
- ❖ Calculus of integration.
- ❖ Real Analysis
- ❖ Complex Variables.
- ❖ Differential (Linear and partial) and Integral Equations
- ❖ Differential Geometry.

- ❖ Discrete Mathematics.
- ❖ Functional Analysis. (Operator Theory)
- ❖ Linear and nonlinear Convex Analysis.
- ❖ Mathematics (Calculus) for Business.
- ❖ Measure Theory.
- ❖ Preparatory Courses for Statistics.
- ❖ Special Functions.
- ❖ Solid Geometry.
- ❖ Topology.

(2)-Teaching Performance

(2)-الأداء التدريسي

تتميز الأستاذة الدكتور بأدائها التدريسي الغير نمطي و استخدامها لطرق التدريس التفاعلية مع الطلاب مما يؤدي الى تحسين مستواهم بل ينتج عنهم زمرة من المتفوقين في غالب الأحيان.

The professor is distinguished by her atypical teaching performance and her use of interactive teaching methods with students, which leads to improving their level and often results in a group of outstanding students.

(3)-Writing books and lecture notes

(3)-تأليف الكتب و المذكرات

ا -تأليف كتب منشورة عالميا:

قامت الأستاذة الدكتور/ سحر محمد على أبو بكر بتأليف العديد من الكتب العلمية في مجال الرياضيات البحتة تحليل دالي وفي مجال الهندسة ببعض أنواعها و التي تم نشرها في دور النشر العالمية و تتداولها المكتبات في انحاء العالم ويتم توزيعها عبر أمازون: Prof. Dr. Sahar Mohamed Ali Abou Bakr has written many scientific books in the field of pure mathematics, Functional analysis and some types of geometry, which have been published in international publishing houses and are circulated by libraries around the world and distributed through Amazon:

[1] Sahar Mohamed Ali Abou Bakr., “Functional Analysis, Projection Constants of Some Topological Spaces and Some Applications”, **Yokohama Publishers Inc. Tokyo, Japan**, [ISBN: 978-4946552-39-7], Copyright © 2010.



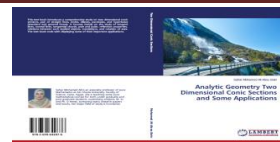
[2] Sahar Mohamed Ali Abou Bakr., “Functional Analysis with Some Fixed Points Theories’ Approaches”, Lap Lambert Academic Publishing, Deutschland/ Germany, [ISBN: 978-3-659-4670-6], Copyright © 2013.



[3] Sahar Mohamed Ali Abou Bakr., “An Introduction to Three Dimensional Geometry and Projection Operators”, Lap Lambert Academic Publishing, Deutschland/ Germany, [ISBN: 978-3-659-51906-2], Copyright © 2014. هذا الكتاب هو الكتاب رقم السادس عشر على العالم في 2014-2015 Top Science Books. موسوعة



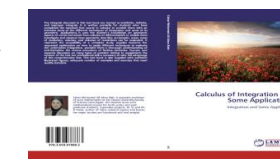
[4] Sahar Mohamed Ali Abou Bakr., “Analytic Geometry, Two Dimensional Conic Sections and Some Applications”, **Lap Lambert Academic Publishing, Deutschland/ Germany**, [ISBN: 978-3-659-64287-6], Copyright © 2014.



[5] Sahar Mohamed Ali Abou Bakr., “Comprehensive Study of Curves in Differential Geometry”, Verlag/ publisher Lab Lambert Academic Publishing, Deutschland/ Germany, [ISBN: 978-3-659-87407-9], Copyright © 2016.



[6] Sahar Mohamed Ali Abou Bakr., “Calculus of Integration and Some Applications,” Verlag/ publisher Lab Lambert Academic Publishing, Deutschland/ Germany, OmniScriptum GmbH & Co. KG. [ISBN: 978-3-659-97888-3], Copyright © 2016.



[7] Sahar Mohamed Ali Abou Bakr., “Comprehensive Study of Curves in Differential Geometry”, Lap Lambert Academic Publishing, Deutschland/ Germany, [ISBN: 978-620-5-49133-1], Copyright © 2022.



Book Projects submitted and under review

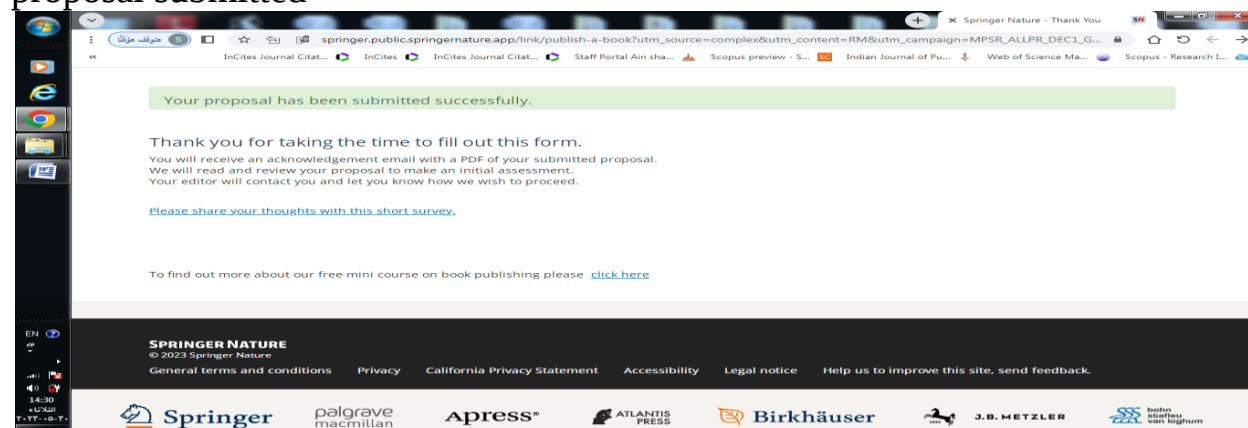
[1] Sahar Mohamed Ali Abou Bakr., “Fixed Points and Coupled Fixed Points: Generalized Contraction Types of Mappings in Classical and Cone Metric Spaces”

SPRINGER NATURE

[2] N. Faried, Sahar Mohamed Ali Abou Bakr, H. Abd El-Ghaffar and S. S. Solieman Almassri., “Coupled Fixed-Point Theorems of Operators on Some Generalized Metric Space

SPRINGER NATURE

[3] Review on Fixed Points and Coupled Fixed Points of Generalized Contraction Types of Mappings in Classical and Cone Metric Spaces. Book proposal submitted



(4)-Exams Work

(4)-أعمال الإمتحانات

تلتزم الأستاذ الدكتور بأعمال الإمتحانات، المراجعات و تصحيح اوراق إجابات الطلاب وأيضاً تسليم النتائج فى موعيدها على النحو المطلوب و المستوى المثالى الممتاز.

The professor is committed to doing examinations, revisions and correcting students' answer sheets, as well as delivering results on time as required and at an ideal and excellent level.

(5)-Evaluation of the department's teaching

تؤدى الأستاذ الدكتور/ سحر محمد على أبوبكر الأستاذ و رئيس مجلس قسم الرياضيات كلية العلوم جامعة عين شمس جميع المهام الوظيفية التى توكل اليها من قبل القسم أو من قبل الكلية بكفاءة و إقتدار وإلتزام كامل بما يحقق الهدف المطلوب لإثراء العملية التعليمية ولها مساهمات من خلال الأنشطة المتعددة.

Prof. Dr. Sahar Mohamed Ali Abou Bakr, the professor of pure mathematics at the department of mathematics, faculty of science, Ain Shams University performs all the job tasks entrusted to her by the department or by the college with efficiency, competence and full commitment to achieve the desired goal to enrich the educational process and have contributions through many activities.

(6) دورات تنمية قدرات اعضاء هيئة التدريس

(6) Faculty development courses

حضرت و إجتازت الدكتور عدة دورات لتنمية قدرات اعضاء هيئة التدريس منها على سبيل المثال:

- 1 - دورة إدارة الفريق البحثي.
- 2 - دورة إدارة الوقت و الإجتماعات.
- 3 - دورة نظم الإمتحانات و تقويم الطلاب.
- 4 - البرنامج التدريبي، الجوانب المالية و القانونية فى الأعمال الجامعية.
- 5 - البرنامج التدريبي، التخطيط الإستراتيجي.
- 6 - البرنامج التدريبي، الساعات المعتمدة.
- 7 - دورة مهارات التفاوض و الإقناع.
- 8 - دورة تنظيم المؤتمرات.
- 9 - البرنامج التدريبي، ميكروسفت اوفيس 365 Microsoft Office
- 10 - البرنامج التدريبي، بنك المعرفة المصرى EKB Egyptian Knowledge Bank
- 11 - البرنامج التدريبي، إستيفاء معيار القيادة و الحوكمة فى الإعتماد المؤسسى.
- 12 - البرنامج التدريبي، منظومة إدارة الجودة الداخلية.
- 13 - دورة تطوير كفايات رؤساء الأقسام بالجامعة.
- 14 - دورة إعداد ملف الدراسة الذاتية و التقرير السنوى.

She attended several courses to develop the capabilities of faculty members, for example:

- 1-Research team management course.
- 2-Course in time and meeting management.
- 3- Course of examination systems and student evaluation.
- 4 - Training program, financial and legal aspects of university business.
- 5 - Training program, strategic planning.
- 6- Training program, credit hours.
- 7- Negotiation and persuasion skills course.
- 8- Course organizing conferences.
- 9- Training Program, Microsoft Office 365
- 10 - Training Program, Egyptian Knowledge Bank EKB
- 11- The training program, meeting the standard of leadership and governance in institutional accreditation.
- 12-Training program, internal quality management system.
- 13-A course to develop the competencies of department heads at the university.
- 14- Courses for preparing the self-study file and the annual report.

Third: University activities

ثالثاً: الأنشطة الجامعية:

(1) قامت الأستاذة الدكتور إهداء عدد من نسخ لمؤلفاتها المنشورة عالمياً إلى كلا من مكتبة قسم الرياضيات ومكتبة كلية العلوم جامعة عين شمس لتكون متاحة ويستفيد منها الجميع وبخاصة الطلاب في المراحل التعليمية المختلفة.

(1) She donated a number of copies of her internationally published books to both the library of the Mathematics Department and the Library of the Faculty of Science, Ain Shams University, to be available and benefit everyone, particularly students in different educational stages.

(2) شاركت في العديد من الندوات العلمية بالقسم و الكلية.

(2) She participated in many scientific symposia in the department and the college.

(3) عضو فعال في لجنة شؤون البيئة 2018-2019 ولجنة الدراسات العليا من 2019 إلى 2021.

(3) She is an effective member of the Environmental Affairs Committee 2018-2019 and the Graduate Studies Committee 2018-20 and 2019-2020.

(4) تشارك في أعمال الكنترولات و لجان الإمتحانات بكلية العلوم.

(4) She participated in control work and examination committees at the faculty of science.

(5) تشارك الدكتوراة بمجهوداتها مع أعضاء هيئة التدريس بالقسم في أعمال الامتحانات والأنشطة الاجتماعية التي يقوم بها القسم. كما أنها على علاقة طيبة مع جميع أساتذتها وزملائها من أعضاء هيئة التدريس ومع جميع العاملين بالقسم والكلية.

(5) She participates in her efforts with faculty members in the department in the examination work and social activities carried out by the department. She is also on good terms with all its professors and colleagues from the faculty and with all the department and college staff.

(6) كانت عضو في لجنة شؤون خدمة المجتمع و تنمية البيئة 2014-2018 ثم عضوا في لجنة شؤون الدراسات العليا و البحوث 2018-2021 ثم عضوا مناوبا فعال في مجلس كلية العلوم 2021-2025 و رئيس لمجلس قسم الرياضيات منذ 1/ أغسطس/ 2022 حتى 31/ يوليو/ 2025 لمدة ثلاث سنوات متتالية.

(6) She was a member of Community Service and Environmental Development Committee 2014-2018, then a member of Graduate Studies and Research Committee 2018-2021, then an active member of Science Council 2021-2025 and head of Mathematics Council from 1/August/ 2022 to 31/ July/ 2025 for three consecutive years.

(7) قامت بتحديث و تطوير العديد من البنية الأساسية مثل أوفيسات وحمامات و معامل قسم الرياضيات وتفعيل مكتبة القسم و تفعيل معمل سعادة الأستاذ الدكتور أ.د/ محمد عبد السلام خضر خدمة للعملية التعليمية أثناء توليها رئاسة مجلس قسم الرياضيات لثلاث سنوات في الفترة من 1/ أغسطس/ 2022 حتى 31/ يوليو/ 2025.

(7) She has updated, improved and developed many infrastructure of the department of mathematics such as department's offices, restrooms, computer science labs and activated the department's library and Prof. Dr. Mohamed Abd-El Salam computer science laboratory, all in serving the educational process during her three years tenure as head of the mathematics department council from 1/Aug/2022 to 31/July/2025 for complete three years.



(8) تحرص على حضور عمومية جمعية الرياضيات المصرية و تكريم أفضل رسائل دكتوراة و ماجستير في العلوم الأساسية 2022-2023 بكلية الهندسة في 2 أكتوبر 2023 ومتابعة كل جديد.

(8) Attending the General Assembly of the Egyptian Mathematical Society and honoring the best doctoral and master's theses in basic sciences 2022-2023 at the Faculty of Engineering on October 2, 2023.

<https://egmaths.com/?p=1778&fbclid=IwAR2AkJLXInkHd2mmofO4YpUeERKZHz6FamamvYKas5w-QiO4hnj8aeD87Bw>

(9) نقوم بتشجيع طلاب الدراسات العليا و حضور مناقشات رسائلهم العلمية وهنا لينك لنموذج مناقشة إحدى رسائل الدكتوراة لحدى طالبات قسم الرياضيات في يوليو 2023 بقاعة سيمنار أ.د/ إنتصارات الشبكي بقسم الرياضيات و إعلان نطق نتيجة لجنة المحكمين للرسالة.

(9) Encourage graduate students to attend the discussions of their scientific theses. Here is a link to a model for discussing a doctoral theses for one of the students of the Mathematics

Department in July 2023 in the seminar hall of Prof. Dr. Intisar Al-Shabaki in the Mathematics Department and announcing the results of the jury committee for the thesis.

https://m.facebook.com/story.php?story_fbid=pfbid0w9ezgfU1nzLzbeFpiY6WqwAVcDV9Y5D5xXPSSDDAr2gaHgaZ5Ce2hSfVGXNc8K2Tl&id=100000245387930&sfnsn=scwspwa&mibextid=6aamW6

(10) قامت بالعمل و التنسيق و الإشراف و المشاركة الفاعلة لإقامة الفاعليات التالية:

(10) She coordinated, supervised and participated in the following activities:

1- ندوة أ.د/ سامي الشابوري في يوم السبت 17 سبتمبر 2022 بقاعة بقاعة أ.د/ انتصارات الشبكي (قاعة سيمينار القسم)، محاضرة بعنوان عن الرياضيات و عظمة الخالق.

1- Symposium by Prof. Dr. Sami Al-Shabouri, on Saturday, September 17, 2022, in the hall of Prof. Dr. Entisarar El-Shobaky (Department Seminar Hall), a lecture entitled On Mathematics and the Greatness of the Creator.

<https://science.asu.edu.eg/ar/news-details/89/%D9%85%D8%AD%D8%A7%D8%B6%D8%B1%D8%A9-%D8%A8%D9%83%D9%84%D9%8A%D8%A9-%D8%A7%D9%84%D8%B9%D9%84%D9%88%D9%85-%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%B9%D9%8A%D9%86-%D8%B4%D9%85%D8%B3-%D8%B9%D9%86-%D8%A7%D9%84%D8%B1%D9%8A%D8%A7%D8%B6%D9%8A%D8%A7%D8%AA-%D9%88%D8%B9%D8%B8%D9%85%D8%A9-%D8%A7%D9%84%D8%AE%D8%A7%D9%84%D9%82-%D9%81%D9%89-%D8%A7%D9%84%D9%83%D9%88%D9%86>

2- ملتقى خريجي قسم الرياضيات و الأطراف المجتمعية في 29 إبريل 2023 في قاعة سيمينار كلية العلوم تم نشر الاعلان و المشاركة على ويب كلية العلوم:

2-Forum for graduates of the Department of Mathematics and community parties on April 29, 2023 in the seminar hall of the College of Science. The announcement and participation were published on the College of Science website:

<https://science.asu.edu.eg/ar/news-details/126/%D9%85%D9%84%D8%AA%D9%82%D9%8A-%D8%AE%D8%B1%D9%8A%D8%AC%D9%8A-%D9%82%D8%B3%D9%85-%D8%A7%D9%84%D8%B1%D9%8A%D8%A7%D8%B6%D9%8A%D8%A7%D8%AA-%D9%88%D8%B9%D8%B8%D9%84%D8%A3%D8%B7%D8%B1%D8%A7%D9%81-%D8%A7%D9%84%D9%85%D8%AC%D8%AA%D9%85%D8%B9%D9%8A%D8%A9>

Also on Facebook

أيضا فاس بوك

<https://web.facebook.com/photo/?fbid=208676901914654&set=a.127203833395295:>

3- أساتذة الرياضيات بالجامعات المصرية يجتمعون على مائدة جمعية الرياضيات المصرية في رمضان 13 أبريل، 2023.

3-Mathematics professors at Egyptian universities meet at the Egyptian Mathematics Association table on Ramadan, April 13, 2023.

<http://ahramalsabah.com/%d8%a3%d8%b3%d8%a7%d8%aa%d8%b0%d8%a9-%d8%a7%d9%84%d8%b1%d9%8a%d8%a7%d8%b6%d9%8a%d8%a7%d8%aa-%d8%a8%d8%a7%d9%84%d8%ac%d8%a7%d9%85%d8%b9%d8%a7%d8%aa-%d8%a7%d9%84%d9%85%d8%b5%d8%b1%d9%8a%d8%a9-%d9%8a>

<https://assma.net/2023/04/11/%d8%ac%d9%85%d8%b9%d9%8a%d8%a9-%d8%a7%d9%84%d8%b1%d9%8a%d8%a7%d8%b6%d9%8a%d8%a7%d8%aa-%d8%a7%d9%84%d9%85%d8%b5%d8%b1%d9%8a%d8%a9-%d8%aa%d9%86%d8%b8%d9%85-%d8%ad%d9%81%d9%84-%d8%a5%d9%81%d8%b7%d8%a7>

أعمال منظومة الجودة و الاعتماد المؤسسي و البرامجي:

- (1) قامت بوضع الأهداف، الرؤيا و الرسالة لقسم الرياضيات بكلية العلوم منذ 2014.
- (1) She set the goals, vision and mission of the Department of Mathematics, Faculty of Science.
- (2) شاركت في وضع توصيفات بعض مقررات و برامج الرياضيات البحتة في القسم 2014.
- (2) She participated in the development of descriptions of some of the pure mathematics courses and programs in the department 2014.
- (3) شاركت في وضع برنامج الدراسات العليا تخصص الرياضيات البحتة في قسم الرياضيات بكلية العلوم 2015.
- (3) Participated in the development of the postgraduate program specializing in pure mathematics in the Department of Mathematics, Faculty of Science 2015.
- (4) أشرفت على ملفات ضمان الجودة بالقسم وكان لها النصيب الأكبر في استكمالها و الإنتهاء منها بنجاح مما أدى إلى حصول كلية العلوم على شهادة الاعتماد الأكاديمي المؤسسي في 2016.
- (4) She supervised the quality assurance files in the department and had the largest share in completing and finishing them successfully, which led to the Faculty of Science obtaining the institutional academic accreditation certificate 2016.
- (5) شاركت في تحسين و إعداد محتويات المقررات الدراسية لشعبة الرياضيات البحتة بالقسم على مدار سنوات حتى الإكمال.
- (5) She participated in the improvement and preparation of the contents of the curricula of the Department of Pure Mathematics in the department for many years till completion.
- (6) مجهودات أ.د/ سحر محمد علي أبوبكر كانت ملحوظة و أحد الأسباب الفاعلة التي ساهمت بشكل كبير في تأهيل كلية العلوم على النحو الأمثل لحصول الكلية على شهادة الجودة و الاعتماد الأكاديمي المحلي في 2016.
- (6) The efforts of Prof. Dr. Sahar Mohamed Ali Abu Bakr were noticeable and one of the effective reasons that contributed greatly to the optimal qualification of the Faculty of Science for the Faculty to obtain the quality certificate and local academic accreditation in 2016.
- (7) قامت بتحديث و تطوير العديد من البنية الأساسية لخدمة العملية التعليمية بقسم الرياضيات أوفيسات و حمامات و مكتبة القسم و معامل علوم الحاسب أثناء توليها رئاسة القسم إستعدادا للتقدم للاعتماد البرامجي لبرامج القسم 2025.
- (7) She modernized and developed many of the infrastructure in the Mathematics Department during her tenure as head of the department as initial step for applying the department programs for the programs accreditation 2025.

(8) قامت على استكمال تحديث و تطوير العديد من البنية الأساسية لخدمة العملية التعليمية مثل أوفيسات وحمامات و معامل قسم الرياضيات وتفعيل مكتبة القسم و تفعيل معمل سعادة الأستاذ الدكتور أ.د/ محمد عبد السلام خضر خدمة للعملية التعليمية الذي بدنته أثناء توليها رئاسة مجلس قسم الرياضيات لثلاث سنوات في الفترة من 1/ أغسطس/ 2022 حتى 31/ يوليو/ 2025.



(8) She finished modernizing, updating, improving and developing many infrastructure of the department of mathematics such as department's offices, restrooms, computer science labs and activated the department's library and Prof. Dr. Mohamed Abd-El Salam computer science laboratory, all in serving the educational process that she started during her three years tenure as head of the mathematics department council from 1/Aug/2022 to 31/July/2025 for complete three years.

(9) تم بحمد الله تعالى تكليل المجهودات الكبيرة المبذولة على منظومة الجودة بقسم الرياضيات بورود الموافقة على اعتماد برامج قسم الرياضيات المقدمة للاعتماد في 26 / نوفمبر/ 2025، و هم برامج علوم الحاسب المنفرد و برنامج الإحصاء الرياضي و علوم الحاسب المزدوج، حيث عملت أ.د/ سحر محمد علي أبوبكر كمدير و مستشار و مراجع للدراسة الذاتية و ملفات الجودة الخاصة للبرنامجين الذين تم التقدم بهم بفريق الجودة للحصول على الاعتماد البرامجي للبرنامجين ضمن ستة عشر برنامجا لكلية العلوم للعام الأكاديمي 2023-2024.

https://science.asu.edu.eg/ar/news-details/283?fbclid=IwDGRzaAOeWBNjbGNrA55YLGv4dG4DYWVtAjExAHNydgMGYXBwX2lkDDM1MDY4NTUzMTcyOAABHk2Fb77cq-qN0B8goFMsKwuVi7doal6KfH2pS1wsFxlXX2V0KT8CMcme8IT_aem_LG6JgyVcoG5yLzp--hIvwA&sfnsn=scwspwa

(9) By the grace of God Almighty, the great efforts exerted on the quality system in the Department of Mathematics were crowned with the approval of the accreditation of the programs of the Department of Mathematics submitted for accreditation on November 26, 2025. These are the programs of Open Computer Science, Mathematical Statistics and Dual Computer Science, where Professor Dr. Sahar Mohamed Ali Abu Bakr worked as director, consultant and reviewer of the self study and quality files of the two programs that were submitted by the quality team to obtain program accreditation for the two programs within sixteen programs of the Faculty of Science for the academic year 2023-2024.

(10) تم تسليم معامل علوم الحاسب في المبنى الجديد، مبنى معامل علوم عين شمس لقسم الرياضيات في ديسمبر 2025، حيث كانت رئيس اللجنة المتابعة لمعامل علوم الحاسب لقسم الرياضيات على مدار ثلاث سنوات بقرار من مجلس كلية علوم عين شمس الجلسة الحادية عشر الموافق الاثنين ٢٠٢٣/٩/١١ و الممتدة حتى ٢٠٢٣/٩/٢٨ للعام الجامعي ٢٠٢٢-٢٠٢٣، عاملا أساسية للتوسعة اللازمة لاعتماد برامج القسم الأكاديمية نظرا للإقبال المتزايد على برامج علوم الحاسب بقسم الرياضيات.

(10) The computer science labs in the new building, the Ain Shams Science Labs building, were handed over to the Department of Mathematics in December 2025. She was the head of the follow-up committee for the computer science labs of the Department of Mathematics for three years by a decision of the Ain Shams Faculty of Science Council, eleventh session, Monday 11/9/2023, and extended until 28/9/2023 for the academic year 2022-2023, a key factor for the expansion necessary to accredit the department's academic programs due to the increasing demand for computer science programs in the Department of Mathematics.

(11) قامت الأكاديمية المصرية للهندسة و التكنولوجيا التابعة لوزارة الإنتاج الحربى دعوة أ.د/ سحر محمد على أبوبكر لمراجعة ملفات الجودة لمقررات قسم العلوم الأساسية بالأكاديمية لما لها من خبرة فى مجال متطلبات الجودة و فى منظومة الإعتماد الأكاديمى و البرامجى عامة، و تقدمت الأكاديمية بخطات شكر لها على هذا التعاون فى 2026/4/19.

(11) The Egyptian Academy of Engineering and Technology, affiliated with the Ministry of Military Production, invited Dr. Sahar Mohamed Ali Abu Bakr to review the quality files for the courses of the Basic Sciences Department at the Academy, due to her experience in the field of quality requirements and in the academic and program accreditation system in general. The Academy submitted letters of thanks to her for this cooperation on 4/19/2026.

Third: Research activities

ثالثا: الأنشطة البحثية

(1) النشر الدولى: حصلت على العديد من شهادات التقدير من الجامعة نظير مساهمتها المتعددة فى النشر الدولى البحثى فى المجلات العلمية العالمية ذات المرجعية و التى ساهمت فى رفع التصنيف الدولى لجامعة عين شمس و لدورات متعددة.

(1) She got lots of appreciations' certificates and rewards encouraging her research activities:



(2) المشاريع البحثية بدعم من جامعة عين شمس:

(2) Projects funded from Ain Shams University.

(أ) قامت بالمساهمة الفاعلة فى المشروع البحثى

” تطبيق تعليمى تفاعلى جديد بمساعة الحاسوب لتحسين وقياس و تقييم المهارات المختلفة للأطفال ذوى الإعاقات باستخدام التقنيات المساعدة الحديثة“

(a) She actively contributed to the research project titled

“A new Interactive Computer-assisted Instruction Application for Improving, Measuring and Assessment Various Skills of Children with Impairments Disability Using Modern Assistive Technologies”

ضمن الخطة الإستراتيجية لجامعة عين شمس من كلية العلوم و بدعم مالى من جامعة عين شمس، كلية العلوم و تم الإنتهاء من المشروع فى ابريل 2023 مع نشر بحث تطبيقى نتيجة للمشروع.

Within the strategic plan of Ain Shams University, Faculty of Science and with financial support from Ain Shams University, Faculty of Science, and the project was completed in April 2023 with the publication of applied research as a result of the project.

(ب) إهتمام الأستاذ الدكتور/ سحر محمد على أبوبكر بدعم أهداف التنمية المستدامة بما يتفق مع رؤية مصر 2030 و أحد مساهماتها البحثية الحالية هو نشر بحث للتنبؤ بتركيزات الملوثات فى المياه للوقوف على إيجاد حلول لهذه المشكلة و ذلك فى إطار تطوير المنظومة البحثية بجامعة عين شمس و أبحاث الخطة الإستراتيجية للجامعة للعام الأكاديمى 2025-2026 إعتبارا من 27-7-2025 إلى 20-8-2026 و بدعم مالى من جامعة عين شمس يجتمع ثلاث تخصصات معا فى أن واحد من القسم للعمل على المشروع البحثى

"تطبيقات الذكاء الاصطناعي في التنبؤ بتلوث المياه وإدارته من أجل الإستدامة البيئية بالتزامن مع رؤية مصر 2030"

المتحرى الرئيسى د/ حسين كرم حسين عبد الستار أستاذ مساعد علوم الحاسب بقسم الرياضيات و أ.د/ فايز نصيف أستاذ الرياضيات التطبيقية بقسم الرياضيات و أ.د/ سحر محمد على أويكر استاذ الرياضيات البحتة بقسم الرياضيات حيث تقوم سيادتها بالمساهمة الفاعلة ليجتمع ثلاث تخصصات فى الرياضيات معا فى أن واحد للعمل على المشروع من القسم بفاعلية و ينضم إليهم فريق متميز من الباحثين و تم نشر بحثين إثنين من المشروع حتى تاريخه فى مجلات عالمية مرموقة و إرسال ثلاثة أبحاث آخرون للنشر، حيث تمت موافقة معالى رئيس الجامعة على دعم المشروع فى 2025-9-1.

(b) Professor Dr. Sahar Mohamed Ali Abu Bakr is committed to supporting the Sustainable Development Goals in line with Egypt's Vision 2030. One of her current research contributions is the publication of a study on predicting pollutant concentrations in water to find solutions to this problem. This is part of the development of the research system at Ain Shams University and the research within the university's strategic plan for the academic year 2025-2026, from July 27, 2025 to August 20, 2026. With financial support from Ain Shams University, three disciplines from the department are collaborating on the research project: "Artificial Intelligence Applications in Predicting and Managing Water Pollution for Environmental Sustainability in Conjunction with Egypt's Vision 2030.

"Applications of artificial intelligence in water pollution prediction and management for environmental sustainability in conjunction with Egypt Vision 2030"

The principal investigator is Dr. Hussein Karam Hussein Abdel Sattar, Assistant Professor of Computer Science in the Department of Mathematics, and Dr. Fayeze Nassif, Professor of Applied Mathematics in the Department of Mathematics, and Dr. Sahar Mohamed Ali Abu Bakr, Professor of Pure Mathematics in the Department of Mathematics, where she actively contributes to bringing together three mathematics disciplines to work on the project from the department effectively. A distinguished team of researchers joins them, and two research papers from the project have been published to date in prestigious international journals, and three other research papers have been sent for publication. The President of the University approved the project's support on 2025-9-1.

This project presents an advanced, interdisciplinary framework for monitoring water pollution prediction and management in the Nile River by integrating artificial intelligence (AI) techniques with classical mathematical modeling. Building on previous research that focused on analytical and numerical solutions of advection-dispersion and pollutant dynamics equations, this project attempts to develop AI-based models to enhance the accuracy of pollutant concentration predictions. A hybrid model will be developed, combining the realism of physics-based differential equation models with the flexibility of machine learning and deep learning algorithms to enable precise forecasting and early anomaly detection. Optimization algorithms will be employed to select effective, time- and cost-efficient remediation strategies such as aeration or chemical treatment. The model will also simulate various intervention scenarios under different hydrological and climatic conditions. Ultimately, the project aims to deliver an intelligent, adaptive, and scalable system to support environmental decision-makers, contributing to improved water quality, pollution reduction, and the achievement of sustainable development goals. This project aligns with the strategic vision of Ain Shams University by promoting interdisciplinary problem-driven research that addresses national challenges.

Sustainable Development Goals (SDGs)

- 1: Good Health and Well-being, 2: Clean Water and Sanitation,
- 3: Affordable and Clean Energy, 4: Climate Action, 5: Life Below Water

(3) الإشراف على المشاريع الطلابية و الرسائل العلمية:

(3) Supervision students projects and scientific thesis

(أ) قامت بالإشراف على العديد من المقالات و المشاريع البحثية الخاصة بطلاب الفرقة الرابعة بقسم الرياضيات. ومشروعات التخرج لطلاب البكالوريوس.

(a) She supervised many articles and research projects for students of the fourth year in the Department of Mathematics. Graduation projects for undergraduate students.

(ب) قامت بالمشاركة في الإشراف على بعض رسائل دكتوراة الفلسفة في الرياضيات البحتة و في الإحصاء الرياضي حيث تم ايجازتها للمنح.

(b) She participated in supervising many doctoral dissertations; for example, the recent granted Ph.D theses are as follows:

(i) Dr. Souhad Elmasry: Thesis titled “Coupled Fixed Point Theorems of Operators on Some Generalized Metric Spaces” in cooperation with the major supervisor, Prof. Dr. Nashat Faried Mohamed Fathy, Professor of Pure Mathematics, Faculty of Science, Ain Shams University and Dr. Hany Abd El-Ghaffar El Deeb, Doctor of Pure Mathematics, Faculty of Science, Ain Shams University, this thesis is awarded the prof. Dr. Entisarate El-Shobaky best thesis in pure mathematics from the Egyptian mathematical society 2025.



(ii) Dr. Basma Esam Farahat Abdelaziz: Thesis titled “On Analytic Methods for Some Queuing Models with Different Operating Specifications” in cooperation with the major supervisor, Prof. Dr. Gamal Samy Mokaddis, Professor Emeritus of Mathematical Statistics, Department of Mathematics, Faculty of Science, Ain Shams University (May God have mercy on him) Prof. Dr. Nahed Abdel-Salam Mokhlis, Professor Emeritus of Mathematical Statistics, Department of Mathematics, Faculty of Science, Ain Shams University, Dr. Haidy Ali Elsayed Newer, Associate Professor of Mathematical Statistics, Department of Mathematics, Faculty of Education, Ain Shams University.

(4) تحكيم الرسائل العلمية

(4) Scientific theses judgments and arbitration.

قامت بتحميم العديد من الرسائل العلمية منها على سبيل المثال:

- (أ) تحكيم رسالة دكتوراه الفلسفة في إعداد معلم العلوم مقدمة من الباحثة/ زينب محمد يحيى يوسف
جنسية الطالبة: مصرية
الوظيفة: مدرس مساعد
التخصص: رياضيات بحتة (تحليل رياضي) مكان عمل الطالب: كلية التربية- جامعة عين شمس
القسم: قسم الرياضيات
تاريخ موافقة السيد أ.د/ نائب رئيس الجامعة للدراسات العليا والبحوث على تشكيل لجنة الحكم: 2022/3/7.
عنوان الرسالة باللغة العربية: دراسة بعض فصول الدوال المحدبة المعممة
عنوان الرسالة باللغة الإنجليزية: A Study on Some Classes of Generalized Convex Functions
- (ب) تحكيم رسالة دكتوراه الفلسفة في إعداد معلم العلوم مقدمة من الباحثة/ أسماء عاشور مصطفى خليل بدر
جنسية الطالبة: مصرية
الوظيفة: مدرس مساعد
التخصص: رياضيات بحتة
القسم: قسم الرياضيات
تاريخ موافقة السيد أ.د/ نائب رئيس الجامعة للدراسات العليا والبحوث على تشكيل لجنة الحكم: 2022/12/17.
عنوان الرسالة باللغة العربية: حول بعض السمات المميزة لفصول حديثة من الدوال المحدبة المعممة
عنوان الرسالة باللغة الإنجليزية: On Certain Characterizations of Modern Classes of Generalized Convex Functions

(5) تحكيم المجلات العلمية الدولية:

(5) Arbitration (reviewer) for international scientific journals:

تم دعوت الأستاذ الدكتور/ سحر محمد على أبو بكر لتحكيم عدة أبحاث لبعض المجلات العالمية مثل
Prof. Dr. Sahar Mohamed Ali Abou Bakr was invited to referee several research papers for some international journals, such as:

- (a) المجلة الآسيوية للرياضيات و أبحاث علوم الحاسب
(a) Asian Journal of Mathematics & Computer Research
<http://www.ikpress.org/journal/44>
- (b) المجلة العالمية للرياضيات و الاحصاء الرياضي
(b) External reviewer for journal of mathematics and statistics, <https://thescipub.com/jmss>
- (c) المجلة العالمية للرياضيات
(c) AIMS Mathematics
(c) External reviewer for AIMS Mathematics journal,
<http://www.aimspress.com/journal/Math>
- (d) المجلة العالمية للرياضيات و علوم الحاسب
(d) External reviewer of the international journal of mathematics and computer, <http://www.mathcomputer.org/reviewers>
- (e) محكم خارجي ل Zentralbalatt Math zbMATH مراجع تحت رقم 14636.
(e) External reviewer for Zentralbalatt Math Reviewer, zbMATH Reviewer ID: 14636.

Sahar Mohamed Ali (Cairo)
Reviewer ID: 14636
sahamr_ali@sci.asu.edu.eg
sahamr_ali@yahoo.com

Your Reviewer State:
active but you have a stop
(2023-10-11->2023-10-20)
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1 at the same time
Automatic Pause:
10 days after latest submission
Your Account Balance:
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Submission History					
Show	5	entries	Search:		
Sent Out	Received	State	Document IDs	Document Info	
2022-10-26	2023-10-11	received	DE076028793 Zbl 07602879	Taheri, A.; Farajzadeh, Ali; Suantai, Suthep Some fixed point theorems in (K) -metric type spaces Thai J. Math. 20, 855-859 (2022).	
2022-03-09	2022-05-17	received	DE074137494 Zbl 07413749	Aoyama, Koji; Kohsaka, Fumiaki Strongly quasilinear mappings. III Linear Nonlinear Anal. 6, 1-12 (2020).	
Sent Out		Received	State		

Showing 1 to 2 of 2 entries

Previous 1 Next

(f) عضو في ماركوس who's who من 2014 الى 2020
(f) Marques who's who member from 2014 to 2020.

(g) عضو في المنظمة الأمريكية للعلوم و التكنولوجيا
(g) Member of American Association for Science and Technology AASCIT.

(h) عضو في جمعية الرياضيات المصرية منذ عام 2012.
(h) Member of the Egyptian Mathematical Society since 2012.

(i) محكم الإنتاج العلمي للسادة المتقدمين لنيل جائزة الأستاذ الدكتور/ إنتصار محمد حسن الشبكي عن الأعوام الأكاديمية 2021-2022, 2022-2023 and 2023-2024
(i) Scientific production referee for the applicants for the award of Prof. Dr. Intisarate Mohamed Hassan El-Shobaki for the academic years 2021-2022 and 2022-2023.

(6) المشاركة في المؤتمرات العالمية والمحلية
(6) Participation in international and local conferences

(أ) شاركت ببحوث علمية والقاء بعض المحاضرات في المؤتمرات العالمية في الرياضيات البحتة تخصص التحليل الدالي ونظريات النقاط الثابتة.

(A) Participated with scientific researches and gave some lectures at international conferences in pure mathematics specializing in the field of functional analysis and fixed points theory.

(ب) الحضور والمشاركة في العديد من المؤتمرات المحلية.
(B) Attended and participated in many local conferences.

(7) جدول المشاركات العلمية في المؤتمرات، اللقائات، و الحوافل العلمية
(7) Table of participation in conferences, scientific symposiums and forums

No	Conference theme	Participation		Date	Organizing, institution and location	Titles of research papers
		Type	Place			
1	The Third International Conference on Nonlinear Analysis and Convex Analysis NACA2003	Research Paper Presentation	Tokyo, Japan	Aug 25-28, 2003	Tokyo Institute of Technology, Tokyo, Japan	"Finite Co-Dimensional Banach Spaces and Some Bounded Recovery Problems"
2	The Third International Conference on Nonlinear Analysis and Convex Analysis NACA2003	Research Paper Presentation	Tokyo, Japan	Aug 25-28, 2003	Tokyo Institute of Technology, Tokyo, Japan	"A Novel Class of Operators and Some Related Constant"
3	International Conference of Mathematics	Research Paper Presentation	Assiut, Egypt	Jan, 2006	Assiut University	"Discreet Fixed Point Theory and Applications"

4	Twelfth International Congress on Computational and Applied Mathematics ICCAM 2006	Contributed paper Presentation	K. U. Leuven, Belgium	July 10-14, 2006	Belgium, K. U. Leuven, FETEW Faculteit Economische en Toegepaste Economische Wetenschappen. Hogentheuvel college Naamsestraat 69. 3000 Leuven	"Abstract Fixed Points of Set-Valued Mappings"
5	International Conference on Higher Education in the 21 st Century	Delegate	Manama, Bahrain	June, 2007	Bahrain, Pioneering Excellence in Higher Education, Ahlia University	None
6	The 8 th International Conference on Fixed Point Theory and Its Applications ICEFTA	Research Paper Presentation	Chiang Mai, Thailand	July 16-22, 2007	Chiang Mai University, Chiang Mai, Thailand	"Coupled Fixed Point Theorem in Partially Ordered Weakly Cauchy Normed Spaces"
7	The 9 th International Conference on Nonlinear Functional Analysis and Applications ICNFAA	Invited speaker	Gyeongsang, Korea	July 25-28, 2007	Kyungnam University and Gyeongsang Nation in Korea	"On Fixed Point Theory in Weakly Cauchy Normed Spaces"
8	"The 6 th International Conference on Nonlinear Analysis and Convex Analysis NACA2009	Research Paper Presentation	Tokyo, Japan	March 27-April 1, 2009	Tokyo Institute of Technology, Tokyo, Japan	"Extension of Some Fixed Point Theorems of {a,b,c} Type Mappings in Weakly Cauchy Normed Spaces"
9	The 10 th International Conference on Nonlinear Functional Analysis and Applications	Research Paper Presentation	Gyeongsang, Korea	July 27-31, 2009	Kyungnam University and Gyeongsang National University in Korea	"Fixed Point Theorems of Some nonexpansive and Contraction Type Mappings"
10	The International Conference on Mathematical Analysis 2010	Research Paper Presentation	Bangkok, Thailand	May 24-26, 2010	Department of Mathematics, Faculty of Science Chulalongkorn University, Bangkok, Thailand	"An Algorithm For Approximating Pair-Fixed Points of Double-{a, b, c} Type Nonexpansive Mappings in Normed Spaces"
11	The 7 th international conference on Nonlinear Analysis and Convex Analysis NACA2011	Research Paper Presentation	Bussan, Korea	August 2-5, 2011	PKNU, Bussan, Korea.	"Fixed Point Theorems of Some Type Contraction Mappings"
12	2 nd MATH- DAYS of King Saud University (SAMS),	Invited Talk	Riyadh, KSA	March 14-15, 2012	Department of mathematics King Saud University in Collaboration with Saudi Association for Mathematical Sciences	"Fixed Point theorems for Contraction and Nonexpansive Mappings Defined on Cartesian products Spaces"
13	AMS 2012 Spring Southeastern Section Meeting	Research paper Presentation	Florida	March 10-11, 2012	university of Southern Florida in Tampa,	"Generalization of the Fixed Point Theorems for Dass-Gupta and Chatterjee type Mappings"
14	The 8 th international conference on Nonlinear Analysis and Convex Analysis	Research paper Presentation	Hirosaki, Japan	August 2-6, 2013	Hirosaki University, Japan	"Fixed Point Theorems for Contraction and Nonexpansive Mappings Defined on Cartesian Products Spaces"
15	The International Conference for Mathematics and Applications (Trends and development) (ICMTD15)	Research paper Presentation	MSA October University for Modern Science and Art	Dec 27-29 2015	Egyptian Mathematical Society, Cairo, Egypt Academy of Scientific Research and Technology	"Fixed Point theorems of {a; b; c; r} and First-Second Contraction Types of Mappings "
16	National Conference on Mathematics & Its Applications 2nd National Conference on Mathematics & Its Applications	Research paper Presentation	Ain Shams University Guest House	(April 1-3, 2017)	Ministry of Scientific Research The Academy of Scientific Research & Technology The National Committee for Mathematics	"Fixed Point Theorem of Generalized T-Cyclic "
17	The International Conference for Mathematics and Applications (Trends and development) (ICMTD17)	Research paper Presentation (single Author)	Dar al-Diyafa, Ain Shams University, Cairo	Dec 28-30 2017	Egyptian Mathematical Society, Cairo, Egypt	"Fixed Point and Convergence Theorem for Fixed Point and Convergence Theorem for Generalized ϕ Weak Contractions and {a,b,c, r} Generalized Cyclic Contractions in Quasi Metric Spaces"

18	The 4th International Conference for Mathematics and Applications (ICMA21)	Research paper Presentation (single Author)	Hurghada	7-10 October 2021	Under the auspices of the Ministry of Higher Education and Scientific Research	"Coupled Coincidence Points for Mappings on Cone Metric Spaces over Banach Algebras with Non-Normal and Non-Solid Cones"
19	The 4th International Conference for Mathematics and Applications (ICMA21)	Research paper-Oral Presentation (Joint paper) (N.Faried, Sahar Mohamed Ali Abou Bakr, H. Abd El-Ghaffar and S. S. Solieman Almassri)	Hurghada	7-10 October 2021	Under the auspices of the Ministry of Higher Education and Scientific Research	"Towards Generalized Class of Admissible Mappings on Partial Cone Metric Spaces with Non Normal-Non Solid Cones and Some Coincidence and Fixed Point Theorems"
20	The International Annual Conference on Basic and Applied Sciences (IACBAS)	Research paper-Oral Presentation (Joint paper) (N.Faried, Sahar Mohamed Ali Abou Bakr, H. Abd El-Ghaffar and S. Solieman Almassri)	Cairo, Egypt	28-30 March 2022	Al-Azhar Conference Center (ACC), Nasr City, Cairo, Egypt	"Novel Coupled Coincidence Point Theorems for Composed Operators on 1E-complete Multiplicative Partial Cone Metric Spaces"
21	The 10 th Annual Ain Shams University International Conference "The University as an Anchor for Development Towards the New Republic" الجامعة و بناء الإنسان ... نحو الجمهورية الجديدة	Attendant	Cairo, Egypt	29-31 March 2022	Ain Shams University	
22	The 5 th Annual Conference – Faculty of Science (S4SDGs 2022). "Science for Sustainable Development Goals"	Research paper Presentation (single Author) And chair session	Hurghada-Red Sea, Egypt	Nov. 15-18 / 2022	Faculty of Science	"Some Results on Coupled Coincidence Points in Vector Quasi Cone Metric Spaces over Banach Algebras with Satisfactory Cones"
23	The 6 th International Conference for Mathematics & Its Applications (ICMA24) "Artificial Intelligent and Computational Mathematics"	Delegate	Academy of Scientific Research & Technology, Cairo, Egypt	Nov. 30-Dec. 1, 2024	Academy of Scientific Research & Technology	-----
24	المؤتمر العلمي الدولي العاشر " دور العلوم الأساسية كقاعدة للتنمية في دعم المبادرات الرئاسية و المشروعات القومية لتحقيق رؤية مصر 2030م "	دعوة من سعادة عميد كلية العلوم جامعة الأزهر	مركز الأزهر للمؤتمرات جامعة الأزهر بالقاهرة	من 5 إلى 6 إبريل 2026	كلية العلوم (بنين) بالقاهرة جامعة الأزهر	https://iscas.omo.co/slides/4.jpg?auto=format&fit=crop&q=80&w=2000
25	The 14 th Annual Ain Shams University International Conference "Universities as Engines of National Development: Innovation & Sustainability Economic Growth" "الجامعات قاطرات للتنمية الوطنية نحو الابتكار و النمو الإقتصادي المستدام"	Attendant	فندق تريومف ، القاهرة الجديدة، Cairo, Egypt	من 19 إلى 20 إبريل 2026	Ain Shams University	http://conferences.asu.edu.eg

(8) مجمل الإنتاج العلمي

(8)-Total scientific research production and List of publications

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- [8] Sahar Mohamed Ali., “Reduced assumption in the Banach contraction principle” The International Journal of Mathematics and Statistics USA Vol 2, No. 1, PP. 343-345, 31 March 2006.
- [9] Sahar Mohamed Ali., “On $\{a,b,c\}$ -nonexpansive mappings in normed spaces” The International Journal of Mathematics and Statistics USA, Vol 4, No 1, 2007.
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Department of Mathematics - Science

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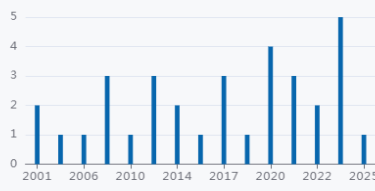
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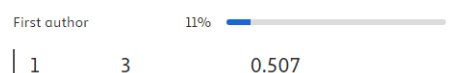
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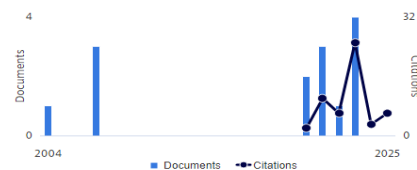
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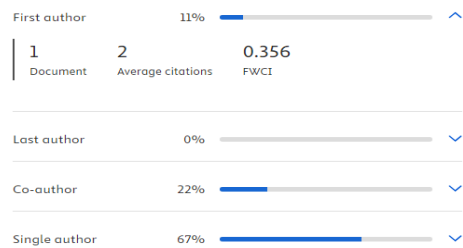
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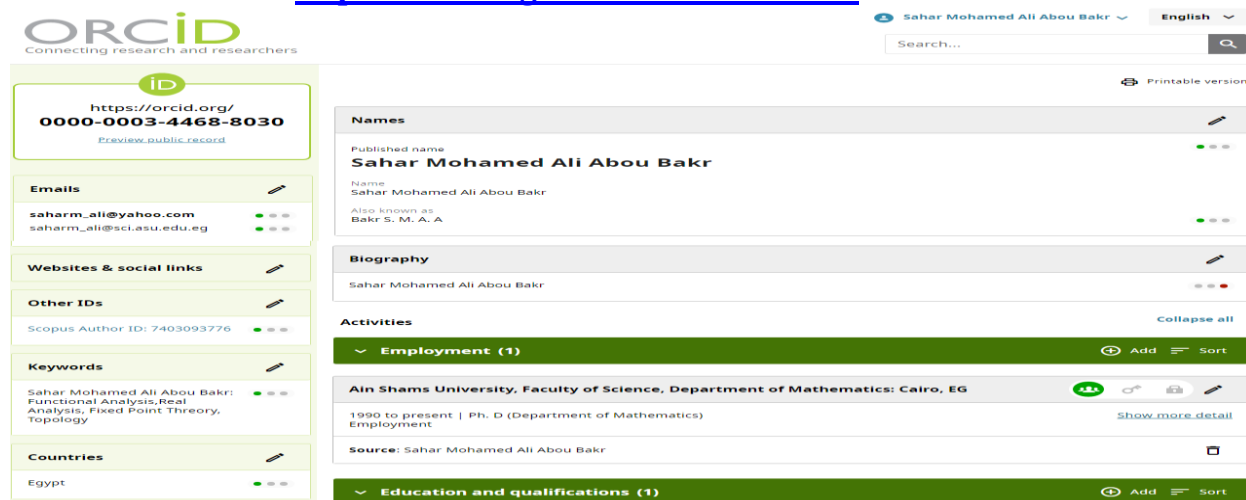
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Also known as: Bakr S. M. A. A.

Biography
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Dr. Sahar Mohamed Ali Abou Bakr

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السيرة الذاتية: التاريخ العلمي والوظيفي ملف الأنشطة الأكاديمية و مجمل الإنتاج العلمي لأستاذ الدكتور/ سحر محمد علي أبو بكر أستاذ الرياضيات البحتة (تخصص تحليل و رئيس قسم الرياضيات كلية العلوم- جامعة عين شمس (2023-1990) [Read More](#)

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H-Index: 5
Orcid: <https://orcid.org/0000-0003-4468-8030>
Research Fields:
Functional Analysis

Selected List of Publications

Publication in the year 2001

- [1] Entisarar El-Shobaky, Sahar Mohammed Ali, Wataru Takahashi, "On projection constant problems and the existence of metric projections in normed spaces", Abstract and Applied Analysis, Vol. 6, No. 5, pp. 299-308, Article ID 252507, 11 pages, 2001. <https://doi.org/10.1155/S1085337501000732>
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