

Curriculum Vitae

◆ Personal Data

Name: Sayed Saber Ali Ahmed
Date of birth: Dec 24, 1972
Nationality: Egyptian
Rank: Professor
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◆ Academic Qualifications

- Ph.D. degree in pure mathematics, Mathematics Department, Faculty of Science, Beni-Suef University, Egypt, Apr. 2007
Dissertation: Existence theorems of the $\bar{\partial}$ -equation with Estimates on Complex manifolds
- M.Sc. degree in applied mathematics, Cairo University, Dec. 2001
Dissertation: "Applications of curvature in complex analysis".
- B.Sc. degree, Mathematics Department, Faculty of Science (Beni-Suef), Cairo University, Egypt. May. 1994. Grade: "Excellent with Honor"

◆ Research Interests

- Complex Analysis in Several Variables: Geometry of pseudoconvex domains, CR-geometry, L^2 -estimates for $\bar{\partial}$ and its applications, Partial Differential Equations in Several Complex Variables
- Biomathematics: Mathematical Modeling and its application in Mathematics, Physics, Economics and Medicine.
- Complex Geometry: Complex manifolds and functions of several complex variables and its application, Hodge theory

◆ Invited Talks

- January 2015, International Conference on Several Complex Variables, Texas A&M Univ. in Qatar, Doha, Qatar.
- Int. Conference on Mathematics (Trends and Developments), Cairo 28-31 Dec 2002.
- The Workshop on Mathematical Analysis and its Applications, Cairo, Egypt, Apr 2004.
- Int. Conference on Mathematical Analysis and its Applications, Egypt, Jan 2006.

◆ Service

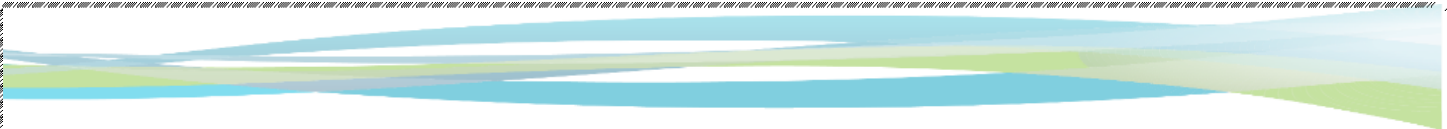
- Referee in Math. Review
 - Editor in Applied and Computational Mathematics
 - Editor in SCIREA Journal of Mathematics
 - Undergraduate theses and research projects supervised
 - Advisor of 8 Bachelor theses at Al Baha University of biomathematics.
 - Matlab student project. With an undergraduate Math student, created examples through Matlab to be used in Differential Equations course.
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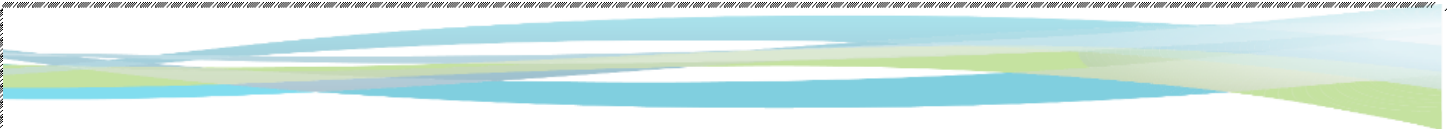
◆ Positions Held

- Professor at Beni-Suef University, Faculty of Science, Egypt, Feb.2020-
 - Associate Professor at Beni-Suef University, Faculty of Science, Egypt, Aug 2013 – Oct. 2019.
 - Associate Professor at Al-Baha University, Faculty of Science, Mathematics Department, Saudi Arabia, Jul 2013-present.
 - Assistant Professor at Beni-Suef University, Faculty of Science, Egypt, May 2007 - Jul 2013.
 - Lecturer at Cairo University, Beni-Suef branch, Faculty of Science, Mar 2002 - Apr 2007.
 - Demonstratorat Cairo University, Beni-Suef branch, Faculty of Science, Jan 1995- Feb 2002.
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◆ Publications in Several Complex Variables

1. **Saber S.**, L2 estimates and existence theorems for $\bar{\partial}_b$ on Lipschitz boundaries of q-pseudoconvex domain, **Accepted in Comptes Rendus Mathématique. Impact Factor: 0.68. Journal Rank Q1.**
2. **Saber S.**, On the applications of Bochner-Kodaira-Morrey-Kohn identity, **to appear in Kragujevac Journal of Mathematics**, Vol. 45(6) (2021), Pages 881–896. **Indexed, abstracted and reviewed in Web of Science (Emerging Sources Citation Index (ESCI)), Scopus, Scimago,Journal Rank Q3.**
3. **Saber S.**, The dbar-Cauchy problem on weakly q-convex domains in $\mathbb{C}P^n$, **Kragujevac Journal of Mathematics**, Vol. 44 (4) (2020), Pages 581–591. **Web of Science, Scopus, Scimago,Journal Rank Q3.**
4. **Saber S.**, Compactness of the weighted dbar-Neumann operator and commutators of the Bergman projection with continuous functions, **Journal of Geometry and Physics** 138, (2019) 194-205. **Impact Factor: 1.056. Journal Rank Q2.**

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5. **Saber S.**, Compactness of the canonical solution operator on Lipschitz q -pseudoconvex boundaries, *Electronic Journal of Differential Equations* 2019 (48), 1-22.
Impact Factor: 0.690. Journal Rank Q2.
 6. **Saber S.**, Global solvability and regularity for $\bar{\partial}$ on an annulus between two weakly convex domains which satisfy property (P), *Asian-European Journal of Mathematics*, Vol. 12, No. 03, 1950041 (2019). Indexed, abstracted and reviewed in Emerging Sources Citation Index (ESCI), Scopus, Journal Rank Q3.
 7. **Saber S.**, Compactness of the complex Green operator in a Stein manifold, *U.P.B. Sci. Bull., Series A*, Vol. 81, Iss. 2, 2019. Impact Factor: 0.478. Journal Rank Q3.
 8. **Saber S.**, Global regularity for $\bar{\partial}$ on an annulus between two weakly convex domains, *Bollettino dell'Unione Matematica Italiana* 11 (3), 309-314. Web of Science (Emerging Sources Citation Index (ESCI)), Scopus, Scimago. Journal Rank Q3.
 9. **Saber S.**, Compactness of commutators of Toeplitz operators on q -pseudoconvex domains, *Electron. J. Differential Equations* 2018 (100), 1-12. Impact Factor: 0.690. Journal Rank Q2.
 10. **Saber S.**, The $L^2 \bar{\partial}$ -Cauchy problem on pseudoconvex domains and applications, *Asian-European Journal of Mathematics*, Vol. 11, No. 02, 1850025 (2018).
Web of Science, Scopus, Scimago. Journal Rank Q3.
 11. **Saber S.**, Solution to $\bar{\partial}$ problem with support conditions in weakly q -convex domains, *Communications of the Korean Mathematical Society*, 33 (2), 409-421.
Web of Science, Scimago. Journal Rank Q3.
 12. **Saber S.**, Sobolev regularity of the Bergman projection on certain pseudoconvex domains, *Transactions of A. Razmadze Mathematical Institute*, 171 (2017) 90–102.
Web of Science, Scopus.

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13. **Saber S.**, Global solutions for the $\bar{\partial}$ -problem on non pseudoconvex domains in Stein manifolds. *J. Korean Math. Soc.* 2017 Vol. 54, No. 6, 1787-1799.
Impact Factor: 0.584. Journal Rank Q3.
 14. **Saber S.**, The $\bar{\partial}$ -problem with support conditions and pseudoconvexity of general order in Kahler manifolds, *J. Korean Math. Soc.* 53 (2016), No. 5, pp. 969–990.
Impact Factor: 0.584. Journal Rank Q3.
 15. **Saber S.**, The L^2 $\bar{\partial}$ -Cauchy problem on weakly q -pseudoconvex domains in Stein manifolds, *Czechoslovak Mathematical Journal*, 65 (140) (2015), 739–745.
Impact Factor: 0.424. Journal Rank Q3.
 16. **Saber S.**, The $\bar{\partial}$ -problem on q -pseudoconvex domains with applications, *Mathematica Slovaca J.*, V. 63, n. 3 (2013), 521-530. Impact Factor: 0.490. Journal Rank Q3
 17. **Saber S.**, Global boundary regularity for the $\bar{\partial}$ -problem on strictly q -convex and q -concave domains, *Complex Anal. Oper. Theory*, V. 6, n. 6, (2012), 1157-1165.
Impact Factor: 0.711. Journal Rank Q2.
 18. **Saber S.**, Solution to $\bar{\partial}$ and $\bar{\partial}_b$ -problem for smooth forms and currents on strictly q -convex domains, *Int. J. Geom. Methods Mod. Phys.*, 9(4) (2012).
Impact Factor 1.009. Journal Rank Q3.
 19. **Saber S.**, The $\bar{\partial}$ -Neumann operator on Lipschitz q -pseudoconvex domains, *Czechoslovak Math. J.* 136(61) (2011), 721–731. Impact Factor: 0.424. Journal Rank Q3
 20. **Saber S.**, Solvability of the tangential Cauchy-Riemann equations for smooth forms on boundaries of q -convex domains, *Lobachevskii J. Math.* 32 (2011), 189-193.
Web of Science, Scopus, Scimago. Journal Rank Q3.
 21. **Saber S.**, Solution to $\bar{\partial}$ -problem with exact support and regularity for the $\bar{\partial}$ -Neumann operator on weakly q -convex domains, *Int. J. Geom. Methods Mod. Phys.*, V.7, n.1 (2010), 135–142. Impact Factor 1.009. Journal Rank Q3.

22. **Saber S., Abdelkader O.**, Solution to $\bar{\partial}$ -equations with exact support on pseudo-convex manifolds, *International Journal of Geometric Methods in Modern Physics* 4 (03), (2007) 339-348. **Impact Factor 1.009. Journal Rank Q3.**

23. **Abdelkader O. and Saber S.**, The $\bar{\partial}$ -Neumann operator on strongly pseudo-convex domain with piecewise smooth boundary, *Mathematica Slovaca*, V. 55, n.3, (2005), 317-328. **Impact Factor 0.490. Journal Rank Q3.**

24. **Abdelkader O. and Saber S.**, Vanishing theorems on strongly q -convex manifolds, *Int. J. Geom. Methods Mod. Phys.*, V. 2, n. 3, (2005), 467-483. **Impact Factor 1.009. Journal Rank Q3.**

25. **Abdelkader O. and Saber S.** Estimates for the $\bar{\partial}$ -Neumann operator on strongly pseudo-convex domain with Lipschitz boundary, *J. of Ineq. In Pure and App. Math.*, 5(3) (2004), 1-10. **Mathematical Reviews and Zentralblatt MATH.**

26. **Abdelkader O. and Saber S.**, On the vanishing theorem of Grauert-Riemeschneider. In: Proceeding of the International Conference of Mathematics (Trends and Developments) of the *Egyptian Mathematical Society*, Cairo, Egypt, 28-31 December (2002) (**Accepted in Egyptian Mathematical Society 2004**).

◆ Publications in Biomathematics

27. **Sayed Saber, EBM Bashier, SM Alzahrani, IA Noaman**, A Mathematical Model of Glucose-Insulin Interaction with Time Delay, *J Appl Computat Math* 2018, 7:3.

28. **Sayed Saber, Salem Mubarak Alzahrani**, Stability Analysis of a Fractional Order Delayed Glucose-Insulin Model, *Albaha University Journal of Basic and Applied Sciences* 3(2) (2019) 7–14.

29. **Sayed Saber, Salem Mubarak Alzahrani**, Hopf Bifurcation on Fractional Ordered Glucose-Insulin System with Time-Delay, *Albaha University Journal of Basic and Applied Sciences* 3(2) (2019) 27–34.

◆ Submitted Papers in Several Complex Variables

- 1- Regularity at the boundary for solutions of the $\bar{\partial}$ -problem and q -pseudoconvexity.
- 2- Subellipticity of the $\bar{\partial}$ -Neumann operator on weakly q -pseudoconvex/concave domains.
- 3- Kodaira's Projective embedding theorem of a compact Kähler manifold.
- 4- Global regularity of $\bar{\partial}$ on certain pseudoconvex domains.

◆ Submitted Papers in Biomathematics

- 5- Fractional Mathematical Model of Tumor Therapy with Oncolytic Virus.
- 6- Hopf bifurcation and dynamical analysis of fractional order model of immunogenic tumors.
- 7- Stabilization of fractional-order of IVGTT glucose-insulin interaction.
- 8- A glucose-insulin model with two time delays.
- 9- Dynamical analysis of fractional-order of IVGTT glucose-insulin interaction.

◆ Teaching Experience

- I have more than 20 years' teaching experience at undergraduate university level.
- Institutions include Cairo University, Beni-Suef Branch, Beni-Suef University, Princess Nourah bint Abdulrahman University and AlBaha University.
- Subjects include a range of mathematical subjects, statistics and physics. I have also taught and/or been in charge of several graduate/postgraduate seminars, and I give research talks on a regular basis.

Year	Subject:	University
1995-2006	Most undergraduate courses in pure and applied mathematics and statistics	Research and Teaching Assistant, Cairo University, Beni-Suef Branch
2007-2008	Complex Variables & Functional Analysis & Differential Geometry & Algebra & Calculus I, II	Beni-Suef University
2008-2012	Complex Analysis & Calculus I, II, III, IV & Real Analysis I, II & Differential Geometry & Probability & Mathematical methods & Algebra & Analytic Geometry & Topology &	Princess Nourah bint Abdulrahman University

	Partial Differential Equations & Ordinary Differential Equations & linear Algebra & Analytical Mechanics & Quantum Mechanics	
2013-	Complex Variables & Topology & Special Functions & Calculus in Several Variables & Mathematical Analysis & Differential Equations & Mathematical Modeling & Partial Differential Equations & Essay and Research Writing & Special English for Education & Foundations of mathematics & Analytical Mechanics & Quantum Mechanics	AlBaha University

◆ Skills

- Good experience in Microsoft office, programming languages such as Matlap.
- Able to cooperate in a team environment as well as working independently.
- Able to work on new projects in mathematics with high production rate.
- Highly motivated, good communication and inter-personal skills, and able to learn
- New technologies quickly.
- Troubleshooting for different technical problems using different techniques in several complex variables, partial differential equation and complex geometry.

◆ Languages: Arabic (native speaker), English.

◆ Qualifications

- Achieved highest GPA (2545/2950) in the Mathematical Department, Beni-Suef Faculty of Science, Cairo University, Egypt, 1994.
- Achieved highest GPA among all MS students, Beni-Suef Faculty of Science, Cairo University, Egypt, 1996.
- Passing in TOEFL with score 500 from Cairo University's center for languages and translation in the period of 01/10/2004 and for six weeks.
- Presence and passing in the training adaptation of lecture from Cairo University's center in the period of 07-29 Sept 2004.
- Passing in testing of computer science and its applications from the Faculty of Information and Computer Science, Cairo University in 30 Sept 2004.

◆ Indexing Websites

Scopus Author ID	16745289900
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Google Scholars	https://scholar.google.com/citations?hl=ar&user=9WXDT80AAAAJ&view_op=list_works&sortby=pubdate
Research Gate	https://www.researchgate.net/profile/Sayed_Saber
ORCID ID	0000-0002-5790-3222

◆ Referees

- Prof. Luigi Rodino, Professore/Professoressa a contratto Dipartimento di Matematica "Giuseppe Peano" - analisi matematica, luigi.rodino@unito.it.
- Prof. Jerome A. Goldstein (PDEs, operator theory): University of Memphis, Memphis, TN, USA. email jgoldste@memphis.edu
- Prof. Russ W. Howell, Professor of Mathematics, Westmont College, Santa Barbara, CA 93108 USA. howell@westmont.edu
- Prof. Miroslav Engliš Professor of Mathematics , Mathematics Institute, Academy of Sciences, Czech Republic. englis@math.cas.cz
- Prof. Osama Abdelkader, Professor of Mathematics, Mathematics Department, Faculty of Science, El-Minia University, Egypt. usamakader882000@yahoo.com
- Prof. Dariush Ehsani, Professor of Mathematics, Humboldt- Universität Institut für Mathematik, 10099 Berlin, Germany, ehsani@psu.edu
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--- Prof. Sayed Saber ---