CURRICULUM VITAE

Personal Profile

Name	Ghada Mohamed Sami		
Family Name	Ali Omar		
Sex	Female		
Nationality	Egyptian		
Martial Status	Married		
Place of Birth	Cairo, Egypt		
Current Job	Assistant professor, Mathematics Department, College of Science, King Faisal		
	University, KSA.		
Home Address	El- Khalidia, Hofuf, Saudi Arabia		
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Current Address	Mathematics Department, College of Science, King Faisal University, KSA.		
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Academic Degrees

- **B.Sc.** degree in Applied Mathematics, Ain Shams University, Cairo, Egypt, with Very Good degree.
- Requirement graduate courses for M.Sc. in Applied Mathematics, Ain Shams University, Cairo, Egypt, 1992.
- *M.Sc.* degree in Applied Mathematics, Ain Shams University, Cairo, Egypt, 1996. The thesis titled, Electric Field Strength of Radar Pulses above an atmospheric surface duct.
- *Ph.D.* degree in Applied Mathematics, Ain Shams University, Cairo, Egypt, Jan., 2001. The thesis titled, **Transient Electromagnetic Field of a Vertical Magnetic Dipole on A Plane Conducting Earth**.

Experience

From-To	Job	Location
1991-1996	Instructor	Mathematics Dept., Faculty of Science, Ain Shams University Cairo, Egypt
1997-2000	Assistant-lecturer	
2001- Now (on leave)	Assistant professor	
2002-2004	Visiting Researcher	Tokyo Institute of Technology, Tokyo, Japan
2007 - Now	Assistant professor	Mathematics Dept., College of Science, King Faisal University, Al-HASA, KSA.

Teaching Experiences

- Teaching courses by English language for Undergraduate students, Mathematics Dept., Faculty of Science, Ain Shams University, Cairo, Egypt :
 - Static
 - Dynamic
 - Electrodynamics
 - Algebra
 - Calculus (I, II, III)

- Teaching courses for undergraduate students, Mathematics Dept., College of Science (1428 till now), King Faisal University, Al HASA, KSA:
 - Calculus (I, II, III)
 - Applied Mathematics
 - Differential forms and vector analysis
 - Differential Equations
 - Partial Differential Equations
 - General Mathematics
- Teaching courses by English language for Undergraduate students, Preparatory Year Deanship (1429 1431), King Faisal University, Al HASA, KSA:
 - General Mathematics
- Teaching courses by English language for Undergraduate students in, College of computer Sciences and Information Technology (1430 till now), King Faisal University, Al HASA, KSA:
 - Calculus
 - Discrete Mathematic

Teaching Philosophy

My teaching philosophy has been improved to accommodate the current advancements as follows. The first and most important part of my teaching is the effective organization of explanatory material for students at the level of their abilities. In classes, I check students' background knowledge and experiences and then select appropriate teaching methods and materials. I have had many opportunities to work with scientists from other departments in the college. These interactions have given me a feeling for what my colleagues need. This valuable experience helps me immeasurably to understand the different backgrounds of students. For each lecture, I make minimum guideline and recapitulate core examples so that most students can understand. To stimulate advanced students, challenging problems are issued in exams and quizzes. Each class begins with a short review for last class and finalized with a summary. Instead of waiting for students to ask questions, I pause occasionally to ask question of students. It makes students think about the material, rather than just passively absorb it. It also helps me to know if they understand what I am saying. I often make brief remarks on problem-solving and related topics when taking a break before starting the next topic. My personal style of teaching is based on the following principles:

- Set clear and realistic goals
- Engage the students
- Set up fair and clear grading policies
- Always respect the students
- Sensitive to the developments of the mathematics teaching strategies to identify the new developments, fundamental skills and knowledge that all math. Students must possess.

Job Experience

- Teaching undergraduate and graduate students
- Supervising research work of graduate students (MSc)

Academic Activities

Committees

- **1.** Member of the Social committee, College of Science (2007-2008), King Faisal University
- 2. Member of the Final exams committee, College of Science (2008-2010), King Faisal University.
- **3.** Member of the Quality and Assurance committee, College of Science (2010- till now), King Faisal University.
- **4.** Member of the Culture committee, Math. Dept., College of Science (2011-2013), King Faisal University.
- **5.** Coordinator of the scientific research open day, Math. Dept., College of Science (2013), King Faisal University.

<u>Workshops</u>

- 1. Workshop for "Program and Course Learning Outcomes Based On NQF", KFU, 2011.
- 2. Workshop for "Securing Community Engagement", KFU, 2012.
- 3. Workshop for "Writing Successful Research Grant Proposal", KFU, 2012.
- 4. Workshop for "Information Security Policy", 2013.
- 5. Workshop for "Intended Learning Outcomes based on National Qualifications Framework", 2015.

Supervisor (3) M.Sc. thesis:

- 1. Mathematics Dept., College of Science, King Faisal University, "Determination of the Electromagnetic Field Created by Sheet Current Source at the Earth's Surface", 2014.
- 2. Mathematics Dept., College of Science, King Faisal University, "The Transient Electromagnetic Field of an Electric Line Source on a Two-Layer Conducting Earth", 2015.
- 3. Mathematics Dept., College of Science, King Faisal University, "Wave Propagation along a *Thin Vertical Wire on the Earth's Surface*", 2015.

Research Interests

- 1. Electromagnetic fields.
- 2. Fluid mechanics.
- **3.** Partial differential equations.
- 4. Transient analysis.
- 5. Antenna propagation.
- 6. Scattering of Electromagnetic Waves.
- 7. Propagation of Electromagnetic Field in Multilayered Media.

International Conferences Publications

- 1. Osama M. Abo-Seida, Ghada M. Sami, "The Electromagnetic Field Propagation in a Spherical Core", Presented at Advanced Electromagnetics Symposium, AES 2012, April 19-22, Paris France.
- 2. Samira T. Bishay, Osama M. Abo-Seida, and Ghada M. Sami, "Transient Electromagnetic Field of a Vertical Magnetic Dipole on a Two-Layer Conducting Earth", Presented at the **Euro Electromagnetics**, 30th May-2nd June 2000, Edinburgh, Scotland, UK.

 Samira T. Bishay and Ghada M. Sami, "Time-Domain Study of Transient Fields for a Thin Circular Loop Antenna", .Presented at the Euro Electromagnetics, 30th May-2nd June 2000, Edinburgh, Scotland, UK.

Journals Publications

- 4. Ghada M. Sami and Khaled Ragab, 'A Parallel Implementation for the Time-Domain Analysis of a Rectangular Reflector Antenna using OpenMP', ACES Journal, Vol.30, No. 7, July, 2015.
- 5. Ghada M. Sami and Mnerh N. Al-qahtani, 'Electric Field Strength along a Thin Vertical Wire on the Earth's Surface', AJST, Vol.6(5), 2015.
- 6. Ghada M. Sami, 'The Motion of a Horizontal Electric Dipole in a Conducting Medium'', <u>IJEIR</u>, vol. 4 (2), 268-271, 2015.
- Ghada M. Sami, and Fatimah A. Al-Najim, 'The Transient Electromagnetic Field Created by Electric Line Source on a Plane Conducting Earth'', International Journal of Mechanics and Applications, 5(1), 16-22, 2015.
- 8. Ghada M. Sami, and Mnerh N. Al-qahtani, 'Determination of the Propagation Constant along a Thin Vertical Wire on the Earth's Surface '', International Journal of Electromagnetic and Applications , 25(1), 8-12, 2015.
- 9. Ghada M. Sami, and Maryam I. Alnami, 'Determination of the electromagnetic field created by sheet current source at the earth's surface'', International Journal of Geosciences, 5, 1584-1593, 2014.
- 10. Ghada M. Sami, and Osama M. Abo-Seida, 'The mutual impedance of thin circular loop antennas on an layered conducting medium at high frequency '', IJERSTE, Vol. 3, Issue 5, May, 2014.
- 11. Ghada M. Sami, 'Time-Domain Analysis of a Rectangular Reflector'', Journal of Modern Phys., Vol.4, Oct., 2013.
- 12. O. M. Abo-Seida, and Ghada M. Sami, "The Electromagnetic Field Propagation in a Spherical Core", J. Electromagnetic Analysis & Applications, **Vol.** 4, 481-484, Oct. 2012.
- 13. Ghada M. Sami, "Radio wave Propagation Characteristics in FMCW Radar", J. Electromagnetic Analysis & Applications, 1: 275-278, Oct. 2009.
- 14. Ghada M. Sami, "Influence of a Magnetically Permeable Surface Layer on Transient Electromagnetic Field by Using Natural-Frequency concept Utilized in Remote Probing of the Earth", Czech. J. Phys, 555-562, May 2005.
- 15. Ghada M. Sami, "Influence of a Magnetically Permeable Surface Layer on Transient Fields for a Thin Circular Loop Antenna", Czech J. Phys., Vol. 54, No. 4, March 2004.
- 16. Ghada M. Sami, "Influence of a Magnetically Permeable Surface Layer on Transient Electromagnetic Field of a Vertical Magnetic Dipole on a Two-Layer Conducting Earth", Czech J. Phys, Vol. 54, No. 3, March 2004.

- 17. O. M. Seida and Ghada. M. Sami, "Transient fields of a vertical electric dipole on an M-layered dielectric medium", Can. J. Phys., 81(6), 869-875, June, 2003.
- 18. S. T. Bishay and Ghada. M. Sami, "Natural-Frequency concept Utilized in Remote Probing of the Earth", Can. J. Phys., 81(4), 705-712, April 2003.
- 19. S. T. Bishay and Ghada. M. Sami, "Time-Domain study of the transient fields for a thin circular loop antenna", Can. J. Phys., 80 (9), 955-1003, 2002.
- 20. S. T. Bishay, O. M. Seida and Ghada. M. Sami, "Transient electromagnetic field of a vertical magnetic dipole on a two-Layer conducting earth", IEEE Transactions on Geoscience and Remote Sensing, November, 2000.

Research Projects

• Parallel algorithm of Time-Domain Analysis on a Rectangular Reflector Antenna, supported by Deanship of research, King Faisal University, 2014-2015. (Budget: 35,000 SAR).

Interests / Hobbies

Teaching, Internet Browsing, Reading and Studying Cultures.

References

- 1. Prof. Dr. Ebrahim Fahmy Ebrahim Mikhail: Mathematics Department, Ain Shams University, Faculty of Science, Cairo, Egypt.
- 2. Prof. Dr. Samira Tadros Bishay: Mathematics Department, Ain Shams University, Faculty of Science, Cairo, Egypt.