

## **Education:**

WEST FÄLISCHE WILHELMS-UNIVERSITÄT MÜNSTER,, MÜNSTER, Germany

Faculty of Mathematics and Computer Sciences.

Dr. rer. nat. in Pure Mathematics, 18th of October 2012

Dissertation Topic: Decomposition Of Bilinear Forms As Sum Of Bounded Forms."

Supervisors: Cuntz, Joachim.

An electronic copy of the dissertation is available online at

Sohag University, Sohag, Egypt

Mathematics Department, Faculty of Science

M.Sc. in Mathematical Sciences, 13th of April 2005

Dissertation Topic: On The Haagerup Tensor Product."

Supervisors: Abu El Nour N. Abdalla, Adel M. Zaki; Hossam S. Abdel Aziz.

Sohag University, Sohag, Egypt

Mathematics Department, Faculty of Science

B.Sc. (First Class Honours), Mathematics, May 1998.

## **LANGUAGES SKILLS**

Fluent in Arabic Language (mother tongue).

Fluent in English Language.

Fluent in German Language.

Passed a 36-hour English Course held in the Faculty of Arts at Sohag University in December 2012 at Sohag ESP Center with a percentage of 91%.

## **COMPUTER SKILLS**

- Programming Languages: FORTRAN, VISUAL BASIC, MATLAB, and LATEX .
- Applications: Microsoft (MS) Office, SPSS.
- Operating Systems: MS Windows.

## **Current Job**

### **Duties**

The main purposes of my job are to carry out research, teaching, and administration within Mathematics Department. My administrative tasks take up a significant part of the working day; typically my work activities include:

- Assessing students' coursework.
- Completing continuous professional development and participating in staff training activities.
- Delivering lectures, seminars and practical laboratory demonstrations at undergraduate and graduate levels.
- Designing and developing courses descriptions and guides.
- Designing, preparing, and developing teaching materials.
- Participating in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- Participating in setting up the strategic research plan of the Mathematics Department.
- Preparing and teaching summer courses.
- Preparing invitation letters for conference Guest Speakers.
- Representing the institution at professional conferences and seminars, and contributing to these as necessary.
- Setting and marking examinations.
- Supervising undergraduate, masters, and doctorate students' research activities.
- Supporting students through an advisory role.
- Undertaking personal research projects and actively contributing to the institution's research
- Writing up research and preparing it for publication.

## **Teaching Experience**

### **Graduate Courses:**

- Linear Algebra
- Functional Analysis

### **Undergraduate Courses:**

**I have taught more than 16 subjects with different specializations.**

- A. Mathematics:
  1. Calculus
  2. Algebra
  3. Advanced algebra
  4. Abstract Algebra
  5. linear Algebra
  6. Mathematical Analysis
  7. Real Analysis
  8. Functional Analysis
  9. Probability theory

10. Finite Mathematics (Markov Chains)
  11. Rings & fields theory
  12. Tensor calculus & analysis
  13. Special Functions
  14. Statistics
- B. Computer Science:
1. Computer Applications:
    - a. Matlab Program
    - b. Spss Program

## **Research Interests**

Functional Analysis, Operator theory, Theory of Inequalities, Operator algebras, Operator Matrices,

## **Current Research**

- Functional analysis
- Operator Theory
- Mathematical Inequalities
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## **Research Supervision**

**PhD students**  
Hassanen

**Master students**  
Hassanen

**Graduate Students**  
Hares  
Osama

**Undergraduate Students**  
Hosam  
Marina  
Yamena

## **Published Papers**

### **1. M. Elmursi.**

Decomposition of bilinear forms as sums of bounded forms, J. Operator theory, Theta Foundation, (Bucharest), (Romania), 75 (2016), 319-336.

## **2. M. Elmursi.**

Decomposition of bilinear forms as sums of bounded forms, arXiv:1411.0504v1 [math. FA], Cornell University, (New York), (USA), 30 pages, 2014.

## **3. M. Elmursi.**

Decomposition of quadratic forms into n-terms, submitted to Annals Of Mathematics Journal, Princeton University, (USA) under Review.

## **4. S. S. Dragomir and M. Elmursi**

Some Results Related to Bessel's Inequality in Inner Product Spaces, Preprint RGMIA Res. Rep. Coll., Victoria University, (Melbourne), (Australia), 20 (2017).

## **5. S.S. Dragomir and M. Elmursi.**

Some Results Related to Bessel's inequality in inner product spaces, accepted in Journal Of Mathematical Inequalities, (Zagreb), (Croatia).

## **6. M. Elmursi**

$\alpha$ -Isometries on Metric and Normed linear spaces, International conference on Mathematics and Statistics (ICOMAS 2018), May 7-10, 2018, Department of mathematical sciences, University of Memphis, TN 38152, USA.

### **Unpublished Papers :**

1. Positivity of Operator Matrices on Hilbert Spaces, July, 2015.
2. Inequalities For Sums In Normed Spaces, March, 2016
3. Spectral Radius Inequality of Hilbert Spaces, November, 2016.
4.  $\alpha$  – Isometries on Metric and Normed linear spaces, September, 2016.

### **Research Proposals**

" $\alpha$  – Isometries on Metric and Normed linear spaces, 2016" is accepted from Prof. Dr. Ralph Chill, the Chair of Functional Analysis at Mathematics institute in TU-Dresden, Germany and the Manager of Known journal "Archive Der Mathematik".

### **Post-Doc Positions**

TU-Dresden , Germany under the supervisor Prof. Dr. Ralph Chill, the Chair of Functional Analysis at Mathematics institute in TU-Dresden, Germany.

## **Awards**

### **1. From January 2007 to 2011**

Scholarship from the Cultural Department and Study Mission of the Arabian Embassy  
Republic of Egypt in Germany.

### **2. From February 2011 to 2012**

EU-scholarship as a part of project "ToDyRic"

## **CONFERENCES**

1- Muenster, 2011

2 -International conference, Sohag, 2017

- **Workshop** "Recent Trends In Operator Theory & Applications" , Fogelman executive conference center, Holiday inn , University of Memphis, Memphis, Tennessee, USA.
- **International conference on Mathematics and Statistics (ICOMAS 2018)**, May 7-10, 2018, Department of mathematical sciences, University of Memphis, TN 38152, USA.
- **Invited Speaker, Talk** in the FedEx institute of Technology, University of Memphis, TN 38152, USA.
- **A paper** accepted in international conference under title " " **$\alpha$ -Isometries on Metric and Normed linear spaces**" , Memphis, Tennessee, United States Of America.