



الجامعة المصرية
مكتبة التربية



CURRICULUM VITA

1. NAME AND PERSONAL DATA

Name: Zaki Fouad Abd El-Raheem El-Mehi

Nationality: Egyptian

Address: 33 Fawzi Moaz street , Smouha. Alexandria, Egypt.

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Date: 11/6/2014

2. EDUCATION

- B.Sc. Mathematics, Faculty of Science, Alexandria University 1978
- M.Sc. Pure Mathematics Faculty of Science, Alexandria University 1983
- Ph.D. Spectral Theory –Pure Mathematics USSR 1990 Baku State University
- Ass.Professor of Pure Mathematics 2002
- Professor of Pure Mathematics 2014
- ICDL 2005
- Some Educational Training Alexandria University 2005, 2014.

3. ACADEMIC APPOINTMENT

- Department of Mathematics Faculty of Education Alexandria University

4. MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Member in the Egyptian Mathematical Society from 2003

Member of Mathematical Reviews American Mathematical Society 2011

Member Zentralblatt MATH. Reviews 2012

Reviewer in BMMSS, Bulletin of the Malaysian Mathematical Sciences Society

Committee Involvement:

- Member of cultural relation faculty of Education Alexandria University Egypt 2005 till now



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- Member of environmental relation faculty of Education Alexandria University Egypt 2004
- B.Participation in local activities: preparing and reviewing all course descriptions in the Mathematical department faculty of Education Alexandria

Relevant Skills:

- § Holds ICDL certificate Microsoft Excel, Microsoft PowerPoint, Microsoft FrontPage and Microsoft Word and Access
- § Maple teaching most courses by help of Maple 10, 11
- § Teaching the course of software packages including Matlab, SPSS and Maple
- § Formatting Most undergraduate courses in Power point show Complex analysis-Real analysis-calculus I , II, III – fundamental of mathematics-linear algebra-Boolean algebra-logical gates

TEACHING 7.

Teaching most of under graduate courses in pure Mathematics (calculus I, II, III- A. Complex analysis – Real analysis - fundamental of mathematics- Linear algebra-

Boolean algebra and logical gates- Differential equations- Functional analysis

Developing of teaching materials by using power point software such as (calculus I, II, Complex analysis – Real analysis - fundamental of mathematics- Linear algebra- Boolean algebra and logical gates- Differential equations- Functional analysis

Mathematical Courses in America integrated cluster for vacation education

PUBLICATIONS

اولا: أبحاث من الدكتوراه .

- 1 Zaki F.A.El-Raheem, on the trace formula for the Sturm-Liouville operator with sign-valued weight, Baku State University 1988, AzNEENTE28.11.88.,No.1142
- 2 Zaki F.A.El-Raheem, on the trace formula for the Sturm-Liouville operator with sign-valued weight, Baku State University 1989, Conference of Young Scientists of Az
- 3 Zaki F.A.El-Raheem, the Asymptotic formula for the eigenvalues of and normalizing



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numbers of for the Sturm-Liouville operator with sign-valued weight, Baku State University 1990, AzNEENTE 05.10.90.,No.1569

- 4 Gasymov, M. G.; Raheem, Zaki ,On the theory of inverse Sturm-Liouville problems with discontinuous sign- alternating weight. (Russian) Dokl. Akad. Nauk Azerbaïdzhana 48/50 (1993/94), no. 1-12, 13--16 (1996).MR1868004
- 5 Zaki F.A.El-Raheem, on the trace formula for the Sturm-Liouville operator with sign-valued weight, Baku State University 1990, AzNEENTE 05.10.90.,No.1570

ثانيا : أبحاث الاستاذ المساعد

- 6 Zaki F.A.El-Raheem, On the scattering problem for the Sturm-Liouville equation on the half line with sign valued weight coefficient .Applicable Analysis vol. 57, pp. 333-339, (1995)
- 7 Zaki F.A.El-Raheem, On some trace formula for the Sturm-liouville operator , Applied mathematics and computation vol.7,pp. 61- 68, 1-2 (1996)
- 8 Zaki F.A.El-Raheem, The inverse scattering problem for some singular Sturm-Liouville operator, Pure Mathematics and application vol.8, No.2-4, pp. 233-246 (1997)
- 9 Zaki F.A.El-Raheem and Nasser A.H, On the numerical study for nonlinear initial – boundary value problem or initial- value Problem, Applied mathematics and computation 119 (2001) 1-19
- 10 Zaki F.A.El-Raheem, Equiconvergence of eigen function expansion for some Sturm-Liouville operator .Applicable Analysis vol. 81, (3) pp. 513-527, (2002)
- 11 Zaki F.A.El-Raheem and Nasser A.H,On the spectral property of a Dirichlet problem with explosive factor, Applied mathematics and computation,138 (2003) 355-374
- 12 Zaki F.A.El-Raheem, Modification of the application of a contraction mapping method on a class of fractional differential equation Applied mathematics and computation,137 (2003) 371-374



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ثالثاً: أبحاث الاستاذية

- 13 Zaki F.A.El-Raheem and Nasser A.H, The Eigenfunction Expansion for a Dirichlet problem with explosive factor, J. Abstract and Applied Analysis Volume 2011 (2011), Article ID 828176,16 pages
- 14 Zaki F.A.El-Raheem and Nasser A.H The Equiconvergence of the Eigenfunction Expansion for a Singular Version of One-Dimensional Schrodinger Operator with Explosive, J. Boundary value problem (2011), DOI:10.1186/1687-2770-2011-45
- 15 Zaki F.A.El-Raheem and Nasser A.H, The Regularized Trace Formula of the Spectrum of a Dirichlet Boundary Value Problem with Turning Point, Abstract and Applied Analysis ,Volume (2012), Article ID 492576, 12 pages, doi:10.1155/2012/492576
- 16 Zaki F.A.El-Raheem and S.M.Salman, On the discretization Process of fractional order Logistic differential equation, J. Egyptian Mathematical Society (2013), dx.doi.org/10.1016/j.joems.2013.09.001
- 17 Zaki F.A.El-Raheem and Nasser A.H, On the spectral investigation of the scattering problem for some version of one-dimensional Schrödinger equation with turning point,J,Boundary Value Problem DOI:10.1186/1687-2770-2014-97(2014)
- 18 Zaki F.A El-Raheem, The inverse spectral problem of some singular version of one-dimensional Schro" dinger operator with explosive factor in finite interval, J. Egyptian Mathematical Society (2014), dx.doi.org/10.1016/j.joems.2014.05.007
- 19 Ahmed M.A El-Sayed, Zaki F.A.El-Raheem and Sanaa.M.Salman, A new chaotic behavior of a general model of the Henon map. J. Advances in Difference Equations 2014, 2014:107 (2014)
- 20 Ahmed MA El-Sayed, Zaki FA El-Raheem and Sanaa M Salman, Discretization of forced Duffing system with fractional-order damping, Advances in Difference Equations 2014, 2014:66



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Alexandria University



- 21 Zaki F.A El-Raheem, The inverse scattering problem of one dimensional version of Schrodinger equation with turning point, J. Boundary value problem (2014)

Scientific Supervision

Year	MSc Title	Student Name	Submitted to
2009	On some properties of the functional equation	Elham Mohamed El-Maghraby	Faculty of Scince Alex. University
2010	Stochastic Control and applications	Mohamed Ibrahim Nohaned Youseif	Faculty of Scince Alex. University
2011	On some coupled system of non-linear Differential equations	Shimaa Atia Mohamed Hagag	Faculty of Scince Alex. University
2011	On some coupled systems of Abstract Differential equations	Eman Rashad Elwan Mohamed	Faculty of Scince Alex. University
2012	Solving non-linear system of equality and inequality	Mai Taha El-Sayed	Faculty of Scince Alex. University
Year	Ph.D Title	Student Name	Submitted to
2014	On the properties of Some Dynamical System	Sanaa Mousa Salman	Faculty of Scince Alex. University
2013	Numrical methods for output feedback assignment	Eman Rashad Elwan Mohamed	Faculty of Scince Alex. University



Evaluation of thesis

Year	MSc Title	Student Name	Submitted to
2008	On some Integro-Differential Equations of Generalized Order in Hilbert Space	Fatma Benhacene Chouia	Faculty of Scince Alex. University
2010	On The Solution of some Three-Point Boundary Value Problems.	Ebtisam Ali Mohaned Harbish	Faculty of Scince Alex. University
2010	On The Solution of some Quadratic Integral Equation.	Fatma Farag Said Mohamed	Faculty of Scince Alex. University
2011	On The Solution of some Coupled Systems of Integral Equations.	Amal Wanis Matug Saud	Faculty of Scince Alex. University
2012	Solvability of some integral equation	Yasmin Mohamed Yonis Omar	Faculty of Scince Alex. University
2012	On the Solution of some problems of differential equations	Masouda Moussaabd,El-Hamid	Faculty of Scince Alex. University
2013	On some quadratic functional integral equation	Amira Mostafa Abdallah	Faculty of Scince Alex. University
2013	On some quadratic functional integral equation	Amira Mostafa Abdallah	Faculty of Scince South vally University
2013	On some quadratic functional integral equation	Amira Mostafa Abdallah	Faculty of Scince Alex. University
2014	On the solution of quadratic integral equation	Insaf Farag Mohamed	Faculty of Scince Alex. University



Министерство
образования и науки
Республики Азербайджан



ABSTRACTS

Trace formula for self adjont operator was presented at conference of young scientist
1989 Baku state university

BOOKS

Topics in real analysis, Ordinary differential equations

DISTRIBUTION OF EFFORT

70% percent of time currently spent in classroom teaching,5% service or attending
responsibilities and 25% for research.