Department of Applied Mathematics
School of Mathematical Sciences
Tel Aviv University

Eli Turkel, Ph.D.

CURRICULUM VITAE

ID number:	011799582
Home Address:	Rechov HaKomemiyut 2/4, Raanana, Israel
Tel. No.:	09-7439638 (home)
Tel. No.:	03-6408038 (work)
E-mail:	turkel@post.tau.ac.il
Date and place of birth:	January 22, 1944, New York, USA
Date of arrival in Israel:	1980
Marital status:	Married
No. of children:	Four

EDUCATION

1961–1965   B.A. ,   Mathematics, Yeshiva University
Date of award: 1965

1965-1967   M.S. ,   Mathematics, Courant Institute, New York University
Date of Award: 1967

1967–1970   Ph.D.,   Mathematics, Courant Institute, New York University
Date of award: 1970
Title of Doctoral Thesis: Frontal Motion in the Atmosphere
Name of Supervisors: Professors Eugene Isaacson and James J. Stoker

ACADEMIC AND PROFESSIONAL EXPERIENCE

1980 - present	Tel Aviv University, professor of applied mathematics
2007 - 2008	Flemish National Academy of Science, Brussels, Belgium
2004 - 2007	Tel Aviv University, head of applied math department
2003 - 2005	NIA, NASA Langley, Hampton, VA, Visiting Scientist
2001 - 2002	University of Colorado in Boulder
2002 - 2002	Flemish National Academy of Science, Brussels, Belgium
1996 - 1999	Tel Aviv University, head of applied math department

1975 - 2002	ICASE, NASA Langley, Hampton, VA, Visiting Scientist
1985 - 1999	ICOMP, NASA Lewis, Cleveland, OH, Visiting Scientist
1975 - 1980	New York University, Associate Research Scientist
1973 - 1975	Tel-Aviv University, Post Doctoral
1969 - 1973	M.A.G.I., Elmsford, N.Y., Research Mathematician

ACADEMIC AND PROFESSIONAL AWARDS

	ISI Thompson - among most cited researchers in the world
1992	NASA Group Achievement Award - ICASE numerical analysis and algorithms group
1975-1976	National Science Foundation Energy Relate Fellowship
1968-1969	National Science Foundation Graduate Fellowship
1965-1968	New York University Fellowship
1965-1967	New York State Regents Fellowship

INTERNATIONAL GRANTS

2009-2013	Israel-US BSF Binational with S. Tsynkov
2007-2009	Israel-France with F. Assous and F. Nataf
2007-2009	Israel-France with A. Boag, P. Poullet and J.Laminie
1999-2002	Israel-Germany (GIF) with N. Kroll
1993-1995	Israel-Germany (GIF) with R. Radespiel
1991-1994	Israel-US BSF Binational with D. Gottlieb
1980-1982	Israel-US BSF Binational with G. Zwas

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Society of Industrial and Applied Math (SIAM)

American Institute of Aeronautics and Astronautics (AIAA)
- Associate Fellow

EDITORIAL POSITIONS

1999-present	Computers and Fluids, Associate Editor

1998-present	Journal of Computational Physics, Associate Editor
1994-present	Applied Numerical Mathematics, Senior Editor

Scientific Advisor

2006-2008	Board of Scientific Advisors - IMDEA Matematicas - Madrid, Spain
2008-present	International adviser, International Journal of Fluid Machinery and System established by Korea, Japan, and Chinese societies

MASTERS STUDENTS SUPERVISED

1994–1996	Ido Singer, High Order Finite Difference Methods for the Helmholtz Equation
1994-1997	Dan Rico, Numerical Methods to Accelerate the Computation of Steady State Solutions of the Navier-Stokes Equations
1993-1997	Boris Muravin, The Analysis of Non-Staitinary Thermal Fields and Thermal Stresses in a Hollow Cylinder During Cooling as a Method for Evaluating the Danger of Damage Development
2003-2005	Guy Salomon, Teaching Mathematical Subjects Using Image Processing
2003-2007	Michael Medvinsky, Absorbing Boundary Conditions for Elliptical Regions
2001–2006	Sergio Chavez, Abarbanel-Gottlieb's Nonlinear PML Absorbing Boundary Condition for the Maxwell Equations
2006–2008	Alexey Ilyevsky, Numerical Solution of Partial Differential Equations by Multigrid Methods for Removing Noise from Digital Pictures
2006–2008	Chanan Gazala, Semi-Blind Image Deblurring in the Presence of Poisson (Photon) Noise via Mumford-Shah Regularization
2007-2009	Alon Banin, Total Least Squares and Semi-blind deblurring of Images

Current Students:

2007-present	Alexander Minkin, High Order Methods for the Time Dependent Maxwell Equations
2009-present	Noa Kraitzman, Accurate Methods for Zooming Digital Images
2009-present	Ofir Shokren, Contrast Enhancement in Digital Images

DOCTORAL STUDENTS SUPERVISED

1989-1994	Jeff Danowitz, A Local Far-field Non-reflecting Boundary Condition for Viscous Two-Dimensional External Flow
1999-2003	Amir Yefet, Fourth Order Accurate Compact Implicit Method for the Maxwell Equations
2004–2007	Eugene Kashdan, High-order Accurate Methods for the Maxwell Equations
2003–2007	Boris Muravin, The Application of Element Free Galerkin and Acoustic Emission Image Recognition Methods in the Investigation of Crack Interaction
2002–2006	Ido Singer, Iterative Solution of the Helmholtz and PML Equation
2004-p2009	Yaakov Olshansky, Properties of the Inverse Problem in Scattering Theory

Current Students:

2006-present	Liat Even-Dar Mandel, The Incompressible Limit for Numerical Approximations in Fluid Dynamics
2008-present	Michael Medvinsky, High Order Methods for Problems with General Interfaces