

Name: **Edriss S. Titi**
Date of Birth: March 22, 1957 Citizenship: Israel and USA
Place of Birth: Acre, Israel
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Education:

1986 **Indiana University, Bloomington**
Ph.D. in Applied Mathematics.
Advisor: Professor Ciprian Foias
Title: "*A Uniform Spectral Estimate for the Linearized Navier-Stokes Operators and their Galerkin Approximations.*"

1981 **The Technion, I.I.T., Haifa, Israel**
M.Sc. in Mathematics, (*with distinction*).
Advisor: Professor Dov Aharonov
Title: "*A Minimal-Area Problem for Univalent Odd Functions.*"

1979 **The Technion, I.I.T., Haifa, Israel**
B.Sc. in Mathematics, *Magna Cum Laude*.

Areas of Research Interest:

Nonlinear Partial Differential Equations, Applied Mathematics, Numerical Analysis, Fluid Mechanics, Atmospheric and Oceanic Dynamics, Data Assimilation, Control Theory, and Infinite Dimensional Dissipative Dynamical Systems.

Professional Experience:

2014–present **Texas A&M University, Arthur Owen Professor of Mathematics**
Department of Mathematics.

2003–present **The Weizmann Institute for Science, Israel, Professor**
Department of Computer Science and Applied Mathematics.

2014–present **University of California, Irvine, Professor Emeritus**
Departments of Mathematics, and of Mechanical and Aerospace Engineering.

1997–2013 **University of California, Irvine, Professor**
Departments of Mathematics, and of Mechanical and Aerospace Engineering.

1994–1997	University of California, Irvine, Associate Professor Department of Mechanical and Aerospace Engineering.
1992–1997	University of California, Irvine, Associate Professor Department of Mathematics.
1991–1994	Cornell University, Adjunct Associate Professor Center for Applied Mathematics.
1988–1992	University of California, Irvine, Assistant Professor Department of Mathematics.
1988–1989 and 1990–1991 1986–1988	Cornell University, Visiting Assistant Professor Department of Mathematics and Mathematical Sciences Research Institute. The University of Chicago, L.E. Dickson Instructor Department of Mathematics.
1989– present	Los Alamos National Laboratory Visiting Collaborator and Consultant.

Administrative Experience and Committees:

Vice Chairman for Graduate Studies, Department of Mathematics, University of California, Irvine, July 1, 2001 – December 15, 2002.

Served on various Review Panels for different funding agencies and educational institutions.

Organizer and co-organizer of several International Scientific Conferences, Workshops and Meetings.

Served on various Departmental Committees: Recruiting Committee, Graduate Studies Committee, Undergraduate Studies Committee, Admission Committee, and Colloquium Committee.

Served on various Campus-wide Committees at the University of California Irvine: Representative of the School of Physical Sciences on the Committee on Courses, Coordinator Officer between the Committee on Courses and the Committee on Educational Policy, Representative of the School of Physical Sciences on the Committee of Education Abroad.

Honors, Awards, Prizes and Fellowships:

2018-2019	Fellow of the John Simon Guggenheim Memorial Foundation
2018-2021	Einstein Visiting Fellow, Einstein Stiftung Berlin/Einstein Foundation Berlin Freie Universität Berlin
04-07/2018	Gaspard Monge Distinguished Visiting Professor, École Polytechnique - Paris Centre de Mathématiques Laurent Schwartz.
January 2017	Senior Simons Professorship Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland.
2013-2015	Ciência sem Fronteiras - Science without Boundaries Scholarship, Special Distinguished Visiting Researcher Award The Conselho Nacional de Desenvolvimento Científico (CNPq), Brazil
2013 - present	Fellow of the Inaugural Class of the American Mathematical Society (AMS)
2012 - present	Fellow of the Society of Industrial and Applied Mathematics (SIAM)

- 2009 **Humboldt Research Award for Senior U.S. Scientists**
Alexander von Humboldt Stiftung/Foundation, Germany.
- 2009 **SIAM Prize on Best Paper in Partial Differential Equations**
SIAM Activity Group on Analysis of Partial Differential Equations.
- 2004 - present **Fellow of the Institute of Physics**
London, UK.
- 2002–2003 **Stanislaw M. Ulam Distinguished Visiting Scholar**
The Center for Nonlinear Studies, Los Alamos National Laboratory.
- 06–09/1999 **Varon Visiting Professorship**
The Weizmann Institute of Sciences, Rehovot, Israel.
- 1997–1998 **Orson Anderson Distinguished Visiting Scholar**
Institute of Geophysics and Planetary Physics, Los Alamos National Laboratory.

Other Honors and Awards:

- 2014 – present **Arthur Owen Professorship of Mathematics**
Texas A&M University.
- 2013 – 2014 **Elected Chair**
SIAM Activity Group on Analysis of Partial Differential Equations.
- 2011 – 2013 **Elected Program Director**
SIAM Activity Group on Analysis of Partial Differential Equations.
- 2011 – 2013 **Fellow of the Center of Smart Interfaces**
Technische Universität Darmstadt, Germany.
- 2004–2005 **Award of Outstanding Contributions to Undergraduate Education**
School of Physical Sciences, University of California, Irvine.
- 2003–2006 **MAOF Fellowship**
Israeli Council of Higher Education.
- 1991–1992 **Award of Outstanding Contributions to Undergraduate Education**
School of Physical Sciences, University of California, Irvine.
- 1985 **Graduate School Research Fellowship Award**
College of Arts and Sciences, Indiana University, Bloomington.

Selected Distinguished Lectures and Plenary Talks:

- June 2018 **17-th International Conference on Hyperbolic Problems: Theory, Numerics, Applications**
Plenary Speaker, State College, Pennsylvania.
- January 2018 **American Mathematical Society, Joint Mathematics Meeting (JMM 2018)**
One Hour Plenary Address, San Diego, California.
- July 2017 **Bifurcations and Instabilities in Fluid Dynamics 2017 (BIFD 2017)**
Plenary Speaker, Woodlands, Texas.
- May 2017 **Israeli Mathematical Union Annual Meeting – 2017**
Plenary Speaker, Acre, Israel.

- February 2017 **PIMS-AMI Annual Distinguished Lecture**
Pacific Institute for the Mathematical Sciences (PIMS) & Applied Mathematics Institute (AMI), University of Alberta, Edmonton, Canada.
- 2016 **The Fisk Distinguished Speaker Series**
Department of Mathematics at the University of Wyoming.
- 2016 **Dr. Karen A. Ames Memorial Lectures on Applied Mathematics**
Department of Mathematics University of Alabama, Huntsville.
- 2016 **The Lansdowne Lectureship**
The University of Victoria, British Columbia, Canada.
- January 2016 **Airbus Corporate Sponsored Public Lecture**
International Center for Theoretical Science of the Tata Institute of Fundamental Research, Bangalore, India.
- November 2014 **Barcelona Mathematical Days 2014**
Plenary Speaker, Barcelona, Spain.
- June 2013 **33rd CNLS Annual Conference: The Oceans and Turbulence**
Plenary Speaker, Los Alamos National Laboratory, Los Alamos, New Mexico.
- September 2012 **Congresso Nacional de Matemática Aplicada e Computacional (CNMAC-2012)**
Plenary Speaker, Águas de Lindóia, Brazil.
- June 2012 **Canadian Applied and Industrial Mathematics Annual Meeting, CAIMS/SCMAI 2012**
Keynote Speaker, Fields Institute for Research in the Mathematical Sciences, Toronto, Canada.
- July 2012 **IUTAM Symposium: Topological Fluid Dynamics II**
Keynote Speaker, Newton Institute, Cambridge, UK.
- January 2012 **AMS-MAA-SIAM Joint Mathematics Annual Meeting**
SIAM Invited Lecture, Boston, Massachusetts.
- December 2008 **The 100th Statistical Mechanics Meeting**
Plenary Speaker, Rutgers University, New Brunswick, New Jersey.
- May 2007 **Euler Symposium, Euler Institute St. Petersburg**
Plenary Speaker – St. Petersburg, Russia.
- July 2006 **SIAM, Society for Industrial and Applied Mathematics Annual Meeting**
Invited Address, Boston, Massachusetts.
- May 2004 **Annual Israeli Mathematical Union Meeting – 2004**
Plenary Speaker, Kibbutz Shfaim, Israel.
- December 2003 **The 90th Statistical Mechanics Meeting - Celebrating the 100th Anniversary of the Birth of Lars Onsager**
Plenary Speaker, Rutgers University, New Brunswick, New Jersey.
- September 2003 **Frontiers of Science and Engineering in the Middle East - Sponsored by The U.S. National Academies**
Invited Speaker, Istanbul, Turkey.
- August 2002 **Foundations of Computational Mathematics**
Plenary Speaker, Minneapolis, Minnesota.

- June 2002 **American Mathematical Society, Western Section**
Invited Address, Portland, Oregon.
- February 2000 **Royal Meteorological Society**
Invited Address, London, UK.
- November
1995 **London Mathematical Society**
Invited Address, Spitalfields Day, Cambridge, UK.

Editorial Activities:

- 2014–present **Mathematics of Climate and Weather Forecasting**
Member of the Editorial Advisory Board.
- 2014–present **Transactions of Institute of Mathematics and Mechanics of NAS Azerbaijan**
Member of the Editorial Board.
- 2012–present **Journal of Nonlinear Science**
Member of the Editorial Board.
- 2012–present **Physica D**
Member of the Editorial Board.
- 2012–present **Journal of Algerian Mathematical Society**
Member of the Editorial Board.
- 2012–present **Asymptotic Analysis**
Member of the Editorial Board.
- 2011–present **Journal of Mathematical Physics**
Associate Editor.
- 2011–present **Advances in Differential Equations**
Member of the Editorial Board.
- 2009–present **Turkish Journal of Mathematics**
Member of the Editorial Board.
- 2003–present **Nonlinearity**
Member of the Editorial Board.
- 2002–present **Journal of Numerical Functional Analysis and Optimization**
Member of the Editorial Board.

Advisory Board of Scientific and Community Activities:

Member of the “*Maxwell Prize*” Selection Committee, **The International Council for Industrial and Applied Mathematics (ICIAM)**, ICIAM – 2019.

Member of the Advisory board of the “*Department of Mathematics and Statistics*”, **The American University of Sharjah**, 2016–present.

Member of the Advisory board of the “*Department of Mathematics*”, **University of South Florida**, 2016–present.

Member of the Advisory board of the “*Department of Mathematics*”, **University of Texas - Dallas**, 2016–present.

Member of the “*Steering Committee for Excellence in the Arab Community in Israel*”, **Yad-Hanadiv Rothschild Foundation**, 2014–present.

Member of the Advisory Board of the “EPSRC Centre for Doctoral Training in the Mathematics of Planet Earth (MPEC DT)”, **Imperial College, London, UK**, 2014–present.

Founding Member of “Arab Scientists Outreach Group to Elementary, Middle and High School Kids - “Al-Maram””.

Chariman of the “Steering Committee for Scholarship Fund for Arab Israeli Undergraduates- “Irteka””, **Israeli Council of Higher Education**, 2013–present.

Member of the “Supreme Academic Council”, **Nazareth Academic Institute**, Nazareth, Israel, 2010–2013.

Member of the “SIAM’s Coordinating Committee for the Joint Mathematics Meeting (JMM)”, USA, 2013–2016.

Member of the “Gene Golub SIAM Summer School Committee”, 2009–2011.

Elected member of the “Commission on Mathematical Physics – C18” of the **International Union of Physics and Applied Physics**, 2008–2011.

Member of the Scientific Advisory Board of the “Istanbul Matematiksel Bilimler Merkezi” (Istanbul Center for Mathematical Sciences), **Boğaziçi Üniversitesi**, Istanbul, Turkey, 2008–present.

Member of the “Mifal Hapayis Prize in Applied Mathematics” Selection Committee, 2008–2009.

Member of the Steering Committee of “Mathematics by Correspondence”, **Davidson Institute of the Weizmann Institute of Science**, 2007–present.

Member of the “Jurgen Moser Prize” Selection Committee, **SIAM, Dynamical Systems Activity Group**, 2006–2007.

Member of the “Committee on Human Rights of Mathematicians”, **American Mathematical Society**, 2004–2006 and 2012–2015.

Member of the “Galilee Research Center for Applied Mathematics” Academic Advisory Committee, **ORT Braude College**, Karmiel, Israel, 2003–present.

Member of the Advisory Board of “Acre Students’ Fellowship”, Acre, Israel, 2003–present.

Member of the Advisory Board of “Arab Alternative Planning”, Eilaboun (Galilee), Israel, 2003–present.

Member of the Advisory Committee to the “SIAM, Dynamical Systems Activity Group”, 2001–2003.

Member of the Advisory Committee to the “Turbulence Working Group” in **Los Alamos National Laboratory**, 2000–2004.

Member of the Advisory Board to the “Center of Nonlinear Studies”, **Los Alamos National Laboratory**, 1997–1998.

Co-founder of, and volunteer in, “Young Scientists Club - Al-Muntada”, West Bank and Gaza , Palestine, 1996–present.

Professional Membership:

A.M.S., S.I.A.M., P.S.M.S., I.M.U., E.M.S.

Ph.D. Students:

Débora A.F. Albanex (Brazil), Chongsheng Cao, Yanping Cao, Yeo-Jin Chung, Aseel Farhat, Shandy Hauk, Don A. Jones, Dan Kushnir, Adam Larios, Boris Levant, Jasmine Linshiz, Evelyn Lunasin, Hung V. Ly (Charles Lee), Vencint Martinez (Indiana University), Tural Sadigov (Indiana University) and Shannon Wynne.

Masters Students (with thesis):

Khalid Abo-Ria, Yasser Awad, Zvi El-Gavish, Boris Ettinger, Daniel Shallom and Jasmine Tal.

Postdoctoral Fellows:

Abderrahim Azouani, Allen Bergeon, Andrew Ferrari, Salvador Garcia, Yanqiu Guo, Hyung-Chun Lee, Jinkai Li, Xin Liu, Julia Novo, Cecilia Mondaini, Marcel Oliver, Eric Olson and Fabio Ramos.

Invited Visiting Professor at:

- 04-07/2018 **École Polytechnique - Paris**
Gaspard Monge Distinguished Visiting Professor, Centre de Mathématiques Laurent Schwartz.
- 10-11/2017 **Shanghai Center for Mathematical Sciences (SCMS), Fudan University**
Fudan University, Shanghai, P.R. China.
- January 2017 **Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland**
Senior Simons Professorship.
- 01-05/2017 **ICERM, Brown University**
Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, RI.
- January 2016 **Tata Institute of Fundamental Research**
International Center for Theoretical Sciences, Bangalore, India.
- December 2015 **University of Vienna**
Wolfgang Pauli Institute, Vienna, Austria.
- November 2015 **Universidade Federal do Rio de Janeiro**
Instituto de Matematica.
- July 2015 **École Polytechnique - Paris**
Centre de Mathématiques Laurent Schwartz.
- 02-06/2014 **Instituto Nacional de Matemática Pura e Aplicada (IMPA)**
Rio de Janeiro, Brazil.
- October 2013 **Universidade Federal do Rio de Janeiro**
Instituto de Matematica.
- 03/2012–08/2012 **Freie Universität, Berlin, Germany**
Fachbereich Mathematik & Informatik, Institut für Mathematik.
- 09/2010–02/2011 **Freie Universität, Berlin, Germany**
Fachbereich Mathematik & Informatik, Institut für Mathematik.
- May 2008 and June 2010 **Université de Paris 13, France**
Department of Mathematics.
- June 2008 **Université de Rennes 1, France**
Department of Mathematics.
- 09 & 12/2006 **École Polytechnique Federale de Lausanne, Switzerland**
The Bernoulli Center of Mathematics.
- 05–06/2006 **École Normale Supérieure - Paris, France**
Department of Mathematics and Applications.
- April 2006 **University of Vienna**
Wolfgang Pauli Institute, Vienna, Austria.
- December 2004 **National University of Singapore**
The Institute of Mathematical Sciences.

- April 2003 **Russian Academy of Sciences, Moscow, Russia**
Institute of Information Transmission Problems.
- 06–07/2001 **Univeristé Henri Poincaré, Nancy 1, France**
Institut Elie Cartan, Laboratoire de Mathématiques.
- 05–06/2001 **The University of Chicago**
Department of Mathematics.
- April 2001 **Feza Gürsey Institute, Istanbul, Turkey**
Tübitak and Bogazici University.
- 01–04/2001 **New York University, New York**
Courant Institute of Mathematical Sciences.
Princeton University
Program in Computational and Applied Mathematics.
- December 2000 **Technische Universität Wien, Austria**
Institute of Mechanics.
- June 2000 **Université de Reims, France**
Departement de Mathématiques.
- 06–09/1999 **The Weizman Institute for Science, Israel**
Department of Applied Mathematics and Computer Science.
- September
1998 **École Normale Supérieure de Cachan, France**
Centre Mathématiques et de leurs Applications.
- November
1997 **Universität - Gesamthochschule Paderborn, Germany**
Department of Mathematics and Computer Science.
- 1997– 1998 **Los Alamos National Laboratory**
Institute for Geophysics and Planetary Physics.
- 06–07/1997 **University of Patras, Greece**
Institute of Chemical Engineering and High Temperature Chemical Processes/Foundation
of Research and Technology Hellas.
- 12/1997 **Cambridge University, Cambridge, UK**
08–09/1996 The Isaac Newton Institute for Mathematical Sciences.
12/1996 and
08–12/1995
- 09–10/1994 **The Swedish Academy of Sciences, Sweden**
The Mittag–Leffler Institute.
- 03–06/1993 **University of Minnesota**
Army High Performance Computing Research Center.
- June 1992 **University of Heidelberg, Heidelberg, Germany**
Institute for Applied Mathematics.
- December 1991 **École Central de Lyon, France**
Department of Mathematics and Computer Science.

04–05/1991 **Mathematical Sciences Research Institute, Berkeley**

December 1990 **College de France, Paris, France**

03–06/1990, **University of Minnesota**
09/1997, Institute for Mathematics & Its Applications.
04/1998 and
04–06/2010

1989–present **Los Alamos National Laboratory**
 Visiting Collaborator and Consultant.