

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:

2020–present **Texas A&M University, University Distinguished Professor & Member of the Hagler Institute of Advanced Study Electorate**

2018–present **University of Cambridge, Nonlinear Mathematical Science Chair Professor**
Department of Applied Mathematics and Theoretical Physics.

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

2003–present **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 **Cornell University, Visiting Assistant Professor**
and
Department of Mathematics and Mathematical Sciences Research Institute.
- 1990–1991
1986–1988 **The University of Chicago, L.E. Dickson Instructor**
Department of Mathematics.
- 1989– 2013 **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, Colloquium Committee, and Distinguished Speakers 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:

- 2020 **2020 International Consortium of Chinese Mathematicians Best Paper Award (Gold Medal)**
Jointly with C. Cao and J. Li.
- 2018-present **Named Fellow of the John Simon Guggenheim Memorial Foundation**
- 2018-2020 **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**
August 2022 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**
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:

- 2020 – present **University Distinguished Professor; and Member of the Hagler Institute of Advance
Study Electorate**
Texas A&M University.
- 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:

- September 2023 **Distinguished Lecture Series in Mathematics**
University of Wisconsin – Madison.
- June 2023 **The Atiyah Distinguished Lecture**
The Maxwell Institute for Mathematical Sciences, University of Edinburgh and Heriot-Watt University, Edinburgh, UK.
- March 2023 **The Applied Mathematics and Computational Science Distinguished Lecture Series**
King Abdullah University of Science and Technology (KAUST), March 14, 2023.
- March 2023 **Herbert Keller Colloquium in Computing and Mathematical Sciences**
Caltech, Pasadena, California, March 6, 2023.
- February 2023 **Inaugural Distinguished Lecture Series in Mathematics**
Florida International University, Miami, Florida, February 6–10, 2023
- August 2022 **Pauli Symposium – 2022**
Wolfgang Pauli Institute, University of Vienna, August 22, 2022.
- July 2022 **SIAM, Society for Industrial and Applied Mathematics Annual Meeting – 2022**
Plenary Speaker, Pittsburgh, Pennsylvania, July 11–15, 2022.
- June 2022 **Isaac Newton Institute for Mathematical Sciences 30th Anniversary Celebrations**
Plenary Speaker, Cambridge, UK, June 28, 2022.
- October 2021 **Howard E. Rowlee Jr. Public Lecture**
Department of Mathematics, University of Nebraska - Lincoln.
- September 2020 **5th Tosun Terzioğlu Lecture**
Turkish Mathematical Society (TÜRK MATEMATİK DERNEĞİ), Karaköy – Istanbul, Turkey.
- June 2020 **Ramaiah University of Applied Sciences Distinguished Lecture Series**
Ramaiah University of Applied Sciences – Bangalore, Government of Karnataka Technology Business Incubator and Ministry of Human Resources Development, India.
- July 2019 **EQUADIFF 2019**
Plenary Speaker, Leiden University, the Netherlands.
- June 2018 **17-th International Conference on Hyperbolic Problems: Theory, Numerics and 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:

- 2022–present **Mathematical Control and Related Fields (MCRF)**
Member of the Editorial Board. American Institute of Mathematical Sciences.
- 2019–present **Physica D**
Member of the Advisory Board. Elsevier.
- 2018–present **Pure and Applied Functional Analysis**
Member of the Editorial Board. Yokohama Publishers of Yokohama, Japan.
- 2015–present **Frontiers in Applied Dynamical Systems: Reviews and Tutorials**
Member of the Editorial Advisory Board. Springer.
- 2014–2020 **Mathematics of Climate and Weather Forecasting**
Member of the Editorial Advisory Board. De Gruyter.
- 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. Springer.
- 2012–2019 **Physica D**
Member of the Editorial Board. Elsevier.
- 2012–present **Journal of Algerian Mathematical Society**
Member of the Editorial Board.
- 2012–2021 **Asymptotic Analysis**
Member of the Editorial Board. IOS Press.
- 2011–present **Journal of Mathematical Physics**
Associate Editor. American Institute of Physics.
- 2011–2018 **Advances in Differential Equations**
Member of the Editorial Board.
- 2009–2018 **Turkish Journal of Mathematics**
Member of the Editorial Board. Academic Journals - Tübitak
- 2003–present **Nonlinearity**
Member of the Editorial Board. Institute of Physics Publishing.
- 2002–present **Journal of Numerical Functional Analysis and Optimization**
Member of the Editorial Board. Taylor & Francis.

Academic and Scientific Synergistic Activities:

Chairman of the “Saul Abarbanel Prize in Applied Mathematics” Committee, 2022

External Member of the Board of Studies “Department of Mathematics and Statistics”, **Ramaiah University of Applied Sciences**, 2020–present.

Member of the “International Scientific Advisory Board (Fachbeirat)”, **The Max Planck Institute in Mathematics for Science in Leipzig**, Germany, 2020–2023.

Member of the “Hagler Institute of Advanced Study” Electorate, **Texas A&M University**, 2020– present.

Member of the “Sir Michael Atiyah Fellowships Committee”, **London Mathematical Society**, 2019–2022.

Member of the “SIAM Fellows Selection Committee”, **Society for Industrial and Applied Mathematics (SIAM)**, 2019–2021.

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 External Advisor Council “Department of Mathematical Sciences”, **University of Texas - Dallas**, 2016–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**, 2014–2020.

Chairman of the “Steering Committee for Scholarship Fund for Arab Israeli Undergraduates- “IRTEKA””, **Israeli Council of Higher Education**, 2013–2021.

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 “Jürgen 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 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.

Society and Community Synergistic Activities:

Member of the “General Assembly and Board of Trustees of “TAAWON””, **A Palestinian Welfare Association**, 2020– present.

Member of the “Steering Committee for Excellence in the Arab Community in Israel”, **Yad-Hanadiv Rothschild Foundation, Operated by the Davidson Institute at the Weizmann Institute of Science**, 2014–present.

Founding Member of “Al-Maram”, **Outreach Group of Scientist** to promote scientific awareness among Arab kids in Elementary, Middle and High Schools.

Member of the Advisory Board of “Acre Students’ Fellowship”, Acre, Israel, 2003–2020.

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

Co-founder of, and volunteer in, “Young Scientists Club - Al-Muntada”, **Outreach scientific activities for school kids**, West Bank and Gaza , Palestine, 1996–2003.

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 (co-advisor, Brazil), Daniel Boutros (University of Cambridge), Chongsheng Cao, Yanping Cao, Yeo-Jin Chung, Aseel Farhat, Shandy Hauk (University of California, Irvine), Lucas Huysmans (University of Cambridge), Hussain Ibdah (Texas A&M University), Don A. Jones (University of California, Irvine), Ori Katz (co-advisor, Weizmann Institute of Science), Dan Kushnir (co-advisor, Weizmann Institute of Science), Adam Larios (University of California, Irvine), Boris Levant (Weizmann Institute of Science), Quyuanyuan Lin (Texas A&M University), Jasmine Linshiz (Weizmann Institute of Science), Evelyn Lunasin, Hung V. Ly (Charles Lee) (University of California, Irvine), Vencint Martinez (co-advisor, Indiana University), Tural Sadigov (co-advisor, Indiana University) and Shannon Wynne (University of California, Irvine).

Masters Students (with thesis):

Khalid Abo-Ria (Weizmann Institute of Science), Yasser Awad (Al-Quds University), Zvi El-Gavish, Boris Ettinger, Daniel Shallom and Jasmine Tal (co-advisor)(Weizmann Institute of Science).

Postdoctoral Fellows:

Débora A.F. Albanex (Freie Universität - Berlin), Abderrahim Azouani (Freie Universität - Berlin), Allen Bergeon, Andrew Ferrari, Salvador Segundo Garcia Zambrano (University of California, Irvine), Yanqiu Guo (Weizmann Institute of Science), Simon Markfelder (University of Cambridge), Hyung-Chun Lee (University of California, Irvine), Jinkai Li (Weizmann Institute of Science), Xin Liu (Texas A&M University and Freie Universität - Berlin), Julia Novo (University of California, Irvine), Cecilia Mondaini (Texas A&M University), Marcel Oliver, Eric Olson (University of California, Irvine), Fabio Ramos (Weizmann Institute of Science) and Stefan Vater (Freie Universität - Berlin).

Invited Visiting Professor at:

- 04-07/2019 **Einstein Visiting Fellow, Einstein Stiftung Berlin/Einstein Foundation Berlin**
Freie Universität Berlin.
- 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.
- 03–08/2012 **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.
- 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

1989–2013 **Los Alamos National Laboratory**
Visiting Collaborator and Consultant.