

CURRICULUM VITA

Thiab R. Taha
School of Computing

EDUCATION:

Ph.D.	Clarkson University, Potsdam, NY	Applied Mathematics, & Computer Science	1982
M.Sc.	The University of Jordan, Jordan	Mathematics (Num. Analysis)	1977
B.Sc.	The University of Jordan, Jordan	Mathematics	1972

Academic Appointments and Leadership:

July 01, 2022 – June 30, 2023: Interim Director of the School of Computing.

July 01, 2013- June 30, 2022: Department Head of the Computer Science Department.

In Fall 2013, the number of computer science majors was 441 and the number of Graduate students was 126, and the number of faculty was 22.

In Fall 2022, the Department has nearly 1,500 majors and more than 290 minors, 235 graduate students, and 35 faculty. The Department became the 4th. largest Department, one of UGA's most popular department, and ranked the first growing Department on Campus. The number of credit hours production is tripled. New programs have been established such as a certificate in Applied Data Science with more than 500 students had enrolled in it, a B.S. and MS academic degree programs in Data Science jointly with the Statistics Department, an MS in Cyber security and Privacy, four Double Dawgs programs, Graduate and Undergraduate Certificates in Cyber security and Privacy, and MS in CS with a non-thesis option. In addition, an Institute of Cybersecurity and Privacy has been established and located in the Computer Science Department. The National Security Agency and Department of Homeland Security named the UGA Institute for Cybersecurity and Privacy a National Center of Academic Excellence in Cybersecurity. For the first time since the Department creation, two faculty have been named Distinguished Research Professors. During my tenure as a Department Head, we hired 26 faculty

I played a crucial role in the creation of the SoC. I Co-chaired the Two Planning Committees: The Academic planning Committee and the Scholarly Planning Committee. The result was an important document that was approved by the CS and Engineering faculty, and together with the SoC proposal, UGA approved and established the SoC(<https://news.uga.edu/uga-establishes-school-of-computing/>).

- 1994 – 2013 Professor, Department of Computer Science, UGA
- 1988- 1994 Associate Professor, Department of Computer Science, UGA.
- 1982-1988 Assistant Professor, Department of Computer Science, UGA.
- 1995-96 Visiting Professor on a Fulbright Scholar to Jordan, Department of Computer Science, University of Jordan.
- 1985-86 Visiting Professor, College of Science and Technology, Jerusalem (on leave from the University of Georgia)
- 1982 Research Associate, Clarkson University (summer)
- 1978-82 Teaching Assistant, Clarkson University
- 1976-78 Instructor, Teachers' Training Institute, Jordan
- 1976-77 Instructor, University of Jordan

- 1974-78 Chairman and Instructor, Teachers' Training Institute, Jordan (summers)
- 1972-76 Secondary Education Teacher, Jordan

Other Positions:

Director of the “CUDA Teaching Center (teachingcuda.uga.edu), UGA, 2011-present.

Director of the “CUDA Research Center (cuda.uga.edu), UGA, 2014-present.

Director of the Big Data Consulting Services and Training center (<http://research.franklin.uga.edu/bigdata/>) at the University of Georgia, 2013-present.

Member of the Faculty of Engineering at UGA.

Adjunct Professor, Institute of Bioinformatics - (July 1, 2002 - 2013) and a founding member.

Founding member of the Georgia Informatics Institute (GII), 2016- present

RESEARCH:

Dr. Taha's areas of research are in the areas of Computational Science and Parallel Computing; software development for solving problems that model water waves, and optical fiber communication systems; and system biology. He published more than 90 journal and conference papers, and served as the Editor to more than 12 Special Issues in MATCOM, and APNUM journals. His research is supported by grants from DOE, NSF, DoD, and Northeastern University. He is the recipient of the 1985 M. G. Michael Awards for Research in Science, and a 1995 Fulbright Scholar.

SERVICE:

Dr. Taha is the Vice President of IMACS, Co-Editor-in-Chief of the APNUM journal and Associate-Editor of IAJIT journal, Senior Editor of the MATCOM journal, and a Senior member of ACM. At the University and College level, Dr. Taha served on the University Council for more than 20 years, Chair of the Faculty Affairs Committee, Chair of the Curriculum Committee, Chair of the Awards Committee, member of the Board of Directors of the University of Georgia Research Foundation of the UGARF foundation, and many others.

HONORS and AWARDS:

1. Co-Chair of the 2027 IMACS World Congress, July 19-23, 2027, Seville, Spain.
2. Co-Chair of the 2023 IMACS World Congress, September 11-15, 2023, Rome, Italy.
3. Co-Editor-in-Chief for the APNUM journal, February 2017- present.
4. Associate Editor-in-Chief of The International Arab Journal of Information Technology (IAJIT), 2019 – present.
5. A founding member of “The Georgia Informatics Institute (GII) from 2016-present.
6. The 1985 winner of the M. G. Michael Award for Research in the Sciences at UGA.
7. Member of the Middle East Advisory Panel on the Fulbright Senior Scholar Program for CIES (Council for International Exchange of Scholars), 1999 - present.
8. Member of the Board of Directors of the International Association for Mathematics and Computers in Simulation (IMACS), August 2005 – present.
9. Invited lecture by the Italian INdAM, “Numerical Methods for Solving Nonlinear Evolution Equations”, presented at the meeting on *Mathematical Models for Complex Systems*, September 26-29, 2007, The Palazzone, Cortona (AR), Italy.
10. Chair and Conference Coordinator of the “IMACS World Congress on Computational and Applied Mathematics & Applications in Science and Engineering”, Athens, GA, August 3-7, 2009.
11. Vice President of International Association for Mathematics and Computers in Simulation (IMACS), August 2009 – present.
12. The 2012 winner of the Outstanding Faculty Service Award from the Computer Science Department at the University of Georgia.

13. Member and Chair of the Georgia Advanced Computing Resource Center-Advisory Committee (GACRC-AC), UGA, 2011-2013.
14. Member of the Board of Directors of the University of Georgia Research Foundation (UGARF), 2011-2015.
15. Director of the “Big Data Consulting Services and Training center, UGA, 2013-present.
16. Director of the “CUDA RESEARCH CENTER, UGA, 2014-present.

EXTERNAL GRANTS:

1. NSF, REU site: genomics and computational biology, NSF^[1]_{SEP} Total Award Amount: \$662,610 Total Award Period Covered: 02/02/14-02/01/19, Jonathan Arnold (PI), (ThiabTaha, Senior Personnel)
2. NSF, REU site: genomics and computational biology, NSF^[1]_{SEP} Total Award Amount: \$364,707 Total Award Period Covered: 04/15/2020-03/31/2023, Jonathan Arnold (PI), (Thiab Taha, Senior Personnel)
3. Center for Inclusive Computing (CIC), Northeastern University. 2021-2023. Thiab Taha (PI), Bradley J. Barnes (Co-PI), Michael E. Cotterell (Co-PI), Manijeh Keshtgari (Co-PI), Eman Saleh (Co-PI), \$60,000. *Center for Inclusive Computing Diagnostic Grant*.
4. Dr. Taha is the PI on the USDA grant titled: Predicting co-selection of antibiotic resistance in Salmonella and Enterococcus, Fellowship, August 01, 2021, June 30, 2022, \$37,000.
5. HEC Fellowship – For 6 PhD students (FP00023221), PI. HIGHER EDUCATION COMM PAKISTAN, January 1, 2021–December 31, 2025
6. Acquisition of Goods and Services (Vipul Shinde) (FP00027677), PI, USDA ARS, 5860402018, *August 1, 2022–December 31, 2022, \$15,573*.
7. Creating an Innovation Engine in Cyberphysical, Edge, and IoT Systems Security in the Central Savannah River Area (CSRA) (FP00027995) NSF, April 1, 2023–March 31, 2025, Proposed amount: \$ 250,000 (US), Role: Co-investigator of, Credit: 16%, Application date: September 22, 2022, Funding type: Research, Status: Recommended for funding.

PROFESSIONAL ACTIVITIES:

- Senior member of the Association of Computing Machinery (ACM).
- Member of the International Association for Mathematics and Computers in Simulation (IMACS).
- Member of the Institute of Electrical and Electronics Engineers (IEEE), Inc.
- Member of the Society for Industrial and Applied Mathematics (SIAM).
- Member of the SIAM Activity Group on Computational Sciences and Engineering.
- Member of the SIAM Activity Group on Nonlinear Waves and Coherent Structures (NWCS).
- Member of the SIAM Activity Group on Supercomputing.
- Chair of the IMACS technical committee on Dynamical Systems and Nonlinear Science, 1992 - present.

EDITORSHIP:

1. Managing Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on “Nonlinear Waves: Computation and Theory-IX”, 2012-2016
2. Editor-in-Chief of the Applied Numerical Methods (APNUM) journal, March 2017 – present.
3. Managing Editor of the Special Issue of the Journal Applied Numerical Methods (APNUM) on “Nonlinear Waves: Computation and Theory-XI”, 2022-2023

ORGANIZER/SESSION CHAIR:

1. Program chair and conference coordinator of the for the IMACS International Conferences on

REVIEWER FOR CONFERENCES/PROGRAM COMMITTEE MEMBER:

1. A member of the Steering Committee of the Arab Conference on Information Technology, 2000- present.
2. Co-Chair of the 2022 IMACS World Congress, September 11-15, 2023, Rome, Italy.

OTHER ACTIVITIES:

1. Attending the Coalition for Academic Scientific Computing (CASC) Spring Meeting, VA, February 29th - March 2nd 2012 and Fall meeting in Arlington, VA, October 3rd - 5th, 2012 on behalf of the GACRC at UGA. CASC is an educational nonprofit organization with 71-member institutions representing many of the nation's most forward-thinking universities and computing centers. CASC is dedicated to advocating the use of the most advanced computing technology to accelerate scientific discovery for national competitiveness, global security, and economic success, as well as develop a diverse and well prepared 21st century workforce.
2. A member of the External Review Team for Accreditation of Diploma in Information Technology in University of Sharjah (UoS), 20–24 October 2013
3. A member of the External Review Team for Renewal of Accreditation Master of Science in Information Systems, Ajman University of Science and Technology December 16-20, 2016.

REFEREED JOURNAL and Conference PUBLICATIONS (Total more than 100 papers):

1. Hendy, A. S., Taha, T. R., Suragan, D., & Zaky, M. A. (2022). An energy-preserving computational approach for the semilinear space fractional damped Klein-Gordon equation with a generalized scalar potential. *APPLIED MATHEMATICAL MODELLING*, 108, 512-530. doi:[10.1016/j.apm.2022.04.009](https://doi.org/10.1016/j.apm.2022.04.009)
2. Zaky, M. A., Bockstalb, K. Van, Taha, T.R., Suragan, D, T. R., Hendy, A. S. An L1 type difference/Galerkin spectral scheme for variable-order time-fractional nonlinear diffusion– reaction equations with fixed delay, *Journal of Computational and Applied Mathematics*. Volume 420, 1 March 2023
3. Taha, Thiab, Triki: Comment on: "Exact analytic solitary wave solutions for the RKL model" [*Mathematics and Computers in Simulation*, Vol 80, Issue 4 (2009) 849—854, *Mathematics and Computers in Simulation*, MATCOM-D-20-00894, V 182, 234-234, 2021.

5

INVITED PRESENTATIONS (More than 100):

1. Keynote Speaker: Keynote on Behalf of the Steering Committee, December 15, 2009, of The 2009 Arab Conference on Information Technology (ACIT'09), December 15-17, 2009, University of Science and Technology, Sana'a, Yemen.
2. Invited Keynote "Parallel Numerical Methods for Solving Nonlinear Evolution Equations", the MASCOT 2010 Conference, Las Palmas de Gran, Spain, Oct. 20-22, 2010.
3. Invited Keynote, "Nonlinear Waves" Georgia Scientific Computing Symposium Saturday, February 12, 2011, Emory University.
4. Invited Keynote: HIGH PERFORMANCE COMPUTING and Big Data Challenges, *MASCOT2015 - 14TH MEETING ON APPLIED SCIENTIFIC COMPUTING AND TOOLS*, Rome, Italy, June 09-12, 2015.
5. Invited Keynote: The MASCOT 2018 Meeting on Applied Scientific Computing and Tools, Rome, Italy, October 2-5, 2018.
6. Invited Keynote talk at the Second International Conference on new Trends in Computing Sciences (ICTCS 2019), Oct. 9-11, 2019, Amman, Jordan

DEPARTMENTAL SERVICE:

1. Graduate Coordinator, January 1989 – December 1994.
2. Member of the Curriculum Committee, (Chair 2009-2012) 1993 – 2012
3. Member of the Recruiting Committee, 1993 – 95; 1998 – 99 (Chair), 2000 – 2001.
4. Member of the Ph.D. in Computer Science proposal committee, 1987 – 1989.
5. Member of the Search and Screening Committee, 1988 – 1989.
6. Member of the Accreditation Committee, 2009-present.
7. Member of the Teaching Assignment Committee (chair 2013- present), 2012-present.