AKHTAR H. LODGHER, Ph.D.

Education:

> Ph.D: George Mason University, Fairfax, VA, *Major:* Information Tech (Computer Science)
> *Dissertation: Intelligent Tutoring of Elementary Arithmetic Skills and Concepts*
> MS: South Dakota School of Mines and Tech, Rapid City, SD. *Major:* Computer Science
> *Thesis: Expert System for Motion Planning of a Robot*
> BEngg: Anna University, Madras, *Major:* Production Engineering

Positions held:

Tenured Full Professor, *Computing and Cyber Security*, Texas A&M University – San Antonio, San Antonio, Texas, Jun 2021 – Present

Texas A&M System Regents Professor, *Texas A&M University System Board of Regents, College Station, Texas, Nov 15, 2018 – Present*

Tenured Full Professor and Chair, *Department of Computing and Cyber Security, Texas A&M University – San Antonio, San Antonio, Texas, Jun 2017 – May 2021*

Director, *Center for Information Technology and Cyber Security (CITCS), Texas A&M University – San Antonio, San Antonio, Texas, Jun 2017 – Aug 2023*

- Responsible for managing the CITCS events and activities – liaison with industry and government

Program Evaluator, *ABET, Jun 2018 – Present.* Conducted site visits each year for ABET accreditation review of computer science and related programs.

Tenured Full Professor, *Computer Science Department, Prairie View A&M University, Prairie View, Texas, Jan 2005 – May 2017*

- Department Head (Jan 2005 – Jan 2009) responsible for managing faculty, curriculum, budgets

Awards:

Texas A&M Regents Professor Award, *Texas A&M University System Board of Regents, College Station, Texas, 2018.*

Selected Grants, Contracts, and Projects (University Related):

I have been the PI or Co-PI of external grants of over $2.2 million from federal and state agencies since 2005 (since being in the A&M System). I have acquired or participated and made significant contributions in over 30 university grants or contracts totaling over $5 million from 1988-1998 and 2005 to present.

Sub Recipient Principal Investigator, $764,073 (*TAMU-SA component, Grant total: $11,000,000*), "*Military City USA Consortium*", (with Alamo Colleges –PI (Ms. Erron Gonzalez)), Department of Defense Award, September 15, 2022 to September 14, 2028.

Sub Recipient Principal Investigator, $18,000, "*The UTSA IC CAE Critical Technology Studies Program*", (with Dr. Max Kilger –PI (UTSA)), Defense Intelligence Agency, Award # HHM402-18-1-0004, September 28, 2018 to September 27, 2021.

Co-Principal Investigator, $249,948, "*HSIs New to NSF: Retain and Increase Hispanic Students in Computing (RETAIN)*", (with Dr. J. Yang –PI, Y. Kim), National Science Foundation Award # 1832433,

October 1, 2018 to September 30, 2021.

Principal Investigator, $130,371, *"Cyber Security Modules for Core, Major and Elective Courses in the Bachelor of Science (BS) Computer Science Curriculum",* (with Dr. J. Yang (Co-PI)), Texas A&M University – San Antonio, NSA Curriculum Development, CFDA 12.905 Cyber Security Core Curriculum, Grant # H98230-17-1-0395, Sept 2017 – Aug 2018.

Co-Principal Investigator, $296,140, *"Targeted Infusion Project Grant: Fostering Innovation and Excellence in Computing Systems: Establishing an Innovative Systems Laboratory",* (with Dr. Bellam –PI, Dr. Lu), National Science Foundation Award # 1238904, September 1 , 2012 to August 31, 2015 with no cost extension to August 2016.

Principal Investigator, $599,085, *"Building Computing Aptitude, Confidence, and Engagement for Students (Computing ACES)",* (with Dr. Y. Yang, Dr. S. Cui (Co-PIs)), National Science Foundation – Broadening Participation in Computing, Award # 0940561, March 2010 – March 2013, with no cost extension to March 2015.

Investigator, $62,660, *"Feasibility and Applications of RFID Technologies to Support Right of Way (ROW) Functions",* (with Dr. J. Perkins (PI), Dr. Y. Yang), Texas Department of Transportation (TxDOT), subcontract through Texas Transportation Institute (TTI), August 2008 – Feb 2010.

Principal Investigator, $112,262, *"Easy-to-use Communications Visualization toolkit for C2 System",* (with Dr. J. Perkins (Co-PI)), United States Air Force Research Laboratory (AFRL), Wright-Patterson AFB, OH 45433-7801, July 2005 to June 2006, PVAMRF# 480221.

Senior Manager - Technology Issues, $1,100,000, *"Establishment of an Environmental Industrial/Business Incubator at Marshall University",* (with Dr. J. Hooper, (PI)), U.S. Department of Commerce, Economic Development Agency (EDA) Pittsburgh Division, 10-39-03483, July 1995 - February 1997, MURC # 112-95-0002-00.

Selected Professional Publications, Presentations, Reports:

Lodgher, Akhtar and Syed Harun, ***"Momentum in mutual funds in the long run"*,** in preparation for journal submission.

Lodgher, Akhtar and Syed Harun, *"Momentum in mutual funds in the long run",* Southwestern Finance Association, 2023 Annual Conference, Houston, TX. March 8-11, 2023.

Lodgher, A & Harun, S. *"Practical Applications of Can a Momentum Strategy Outperform the S&P 500 Index in a Retirement Plan?",* Practical Applications, a Portfolio Management Research Journal, Pageant Media Ltd, 9 (2) 31 Oct 2022; DOI: https://doi.org/10.3905/pa.2022.pa527.

Lodgher, A & Harun, S. *"Can a momentum strategy outperform the S&P 500 Index in a retirement plan?",* The Journal of Retirement, a Portfolio Management Research Journal, Pageant Media Ltd, Summer 2022, 10 (1) 28-47; DOI: https://doi.org/10.3905/jor.2022.1.108. ABDC Rating: B.

Lodgher, Akhtar and Syed Harun, *"Can a momentum strategy outperform the S&P 500 index in a retirement plan?",* Southwestern Finance Association, 2022 Annual Conference, New Orleans, LA. March 2022.

Yang, J, Earwood, B, Kim, Y. R. & Lodgher, A. *"Implementation of Security Modules with Model-Eliciting Activities in Computer Science Courses,"* 2020 ASEE (American Society for Engineering Education) Annual Conference & Exposition, Montreal, Quebec, Canada, June 20-24, 2020. https://par.nsf.gov/servlets/purl/10192349

Yang, J & Lodgher, A, *"Recruiting and Retaining Students into Computing,"* Poster presentation, NSF Hispanic Serving Institutions (HSI) Program PI Meeting, Washington, DC, November 6-8, 2019.

Yang, J, Lodgher, A, Kim, Y. R. *"HSIs New to NSF: Retain and Increase Hispanic Students in Computing (RETAIN)",* Annual Report, National Science Foundation Award # 1832433, Aug 30, 2021, 2020,

2019.

Yang, J & Lodgher, A, "*[Fundamental Defensive Programming Practices with Secure Coding Modules](#),*" 2019 International Conference on Security and Management, Las Vegas, NV, Jul 29 - Aug 01, 2019.

Yang, J & Lodgher, A, "*Recruiting and Retaining Students into Computing,*" Poster Presentation, Annual Texas Hispanic Serving Institution Consortium (HSIC), San Antonio, TX, May 23- 24, 2019. HSIC is supported by the National Science Foundation under Grant No. 1759134.

Lodgher, A, *"Incorporating cybersecurity modules in undergraduate computing education"*, presentation at the ABET Annual Conference, Dallas, TX, April 11-12, 2019.

Lodgher, A., *Panel Speaker, "Shaping the Nation's Cybersecurity Leaders: Insight from Five National Centers of Academic Excellence (CAEs) on K12 and Public-Private Partnerships",* NICE K12 Cybersecurity Education, San Antonio, Dec 3-4, 2018.

Lodgher, A, & Yang, J *"An Innovative Modular Approach of Teaching Cyber Security across Computing Curricula,*" IEEE Frontiers in Education Conference (FIE), San Jose, CA, USA, doi: 10.1109/FIE.2018.8659040. https://ieeexplore.ieee.org/document/8659040, October 3-6, 2018.

Yang, J & Lodgher, A, *"Secure Modules for Undergraduate Software Engineering Courses"*, IEEE Frontiers in Education Conference (FIE), San Jose, CA, USA, doi: 10.1109/FIE.2018.8658433. https://ieeexplore.ieee.org/document/8658433, October 3-6, 2018.

Lodgher, A & Yang J., *"Cyber Security Modules for Core, Major and Elective Courses in the Bachelor of Science (BS) Computer Science Curriculum"*, Final Report and Deliverables to NSA, September 1, 2018.

Lodgher, A & Yang J., *"Cyber Security Modules for Core, Major and Elective Courses in the Bachelor of Science (BS) Computer Science Curriculum"*, Poster presentation at the CyberEd 2018 Conference, Lake Tahoe, California, April 23-24, 2018.

Lodgher, A., *Panel Speaker, "Cyber Education: Filling the Gap - Exploring New Advancements in Cybersecurity Education Programs",* CyberUSA Conference, San Antonio, Jan 30, 2018.

Book Chapter:

- **Hamburger, H. & Lodgher, A.,** *"Exploration in Coinland"* in *Intelligent Instruction by Computer: Theory and Practice*, Eds: Marshall Farr and Joseph Psotka, Taylor and Francis, Washington DC, 1992, [ISBN-0-8448-1687-6](#).

Program Evaluator:

- *ABET (Accreditation Board for Engineering and Technology) Program Evaluator (PEV), 2018 – Present,* Review self-study reports, conduct site visits to assess computer science and related programs and make recommendations for accrediting programs related to computing as determined by the Computer Science Accreditation Board (CSAB).