Robert T. "Trez" Jones
Assistant Director, Texas A&M Cybersecurity Center
Texas Engineering Experiment Station
Texas A&M University, College Station, TX 77843-4254

RESEARCH INTERESTS

- **Cybersecurity and Digital Ethics**—examining policies and practices related to developing and training cybersecurity ethos with a focus on ethical hacking
- **Gamer Psychology**—analysis of the trends and personality factors involved in video gaming, including learning through the use of video games
- **The "T" in STEM**—exploring ways to interpolate technology education successfully into K-20 classrooms

EDUCATION

Ph.D.   Texas A&M University, August 2004
Program Area: **Leadership Education**
Department of Agricultural Leadership, Education, and Communications
Dissertation: Measuring the Impact of Technology on Leadership
Education: A Longitudinal Study

M.S.   Texas A&M University, August 2003
Program Area: **Leadership Education**

B.S.   Texas A&M University, August 1998
Program Area: **Agricultural Development**

PROFESSIONAL EXPERIENCE IN HIGHER EDUCATION

January 2018 – May 2018
Lecturer, Department of Entomology, Forensics and Investigative Sciences, College of Agriculture and Life Sciences, Department of International Affairs, George Bush School of Government and Public Service, Department of Military Science, School of Military Science, Texas A&M University, College Station, TX

May 2017 – Present
Assistant Director and Chief Architect, Texas Cyber Range, Texas A&M Cybersecurity Center, Texas Engineering Experiment Station, College Station, TX

January 2014 – present
Lecturer, Department of Management and Marketing, College of Business Administration, Sam Houston State University, Huntsville, TX

June 2015 – present
Director of Research Technology, Center for Research and Development in Dual Language Literacy and Acquisition, Texas A&M University, College Station, TX

June 2015 – present
Communications Manager, Education Leadership Research Center, Texas A&M University, College Station, TX

January 2014 – May 2017
Clinical Assistant Professor, Technology Management, Department of Educational Administration & Human Resource Development, Texas A&M University, College Station, TX

September 2010 – August 2015
Professor, Computer Information Technology, Blinn College, Bryan, TX

PROFESSIONAL EMPLOYMENT EXPERIENCE IN INDUSTRY

January 2018 – Present
Reviewer- Center of Academic Excellence in Cyber Defense Operations, National Security Agency, Ft. Meade, MD, USA

October 2017 – Present
Center of Academic Excellence in Cyber Defense Education Reviewer, National Security Agency through Northern Virginia Community College, Alexandria, VA

September 2017 – Present
Center of Academic Excellence in Cyber Defense Education Mentor, National Security Agency through Whatcomm Community College, Bellevue, WA

May 2001 – present
Owner, Cornerstone Consulting of B/CS LLC, College Station, TX, USA

November 2012 – January 2014
ERP Database Administrator III/System Administrator IV, Enterprise Services/Infrastructure Support and Services, Sam Houston State University, Huntsville, TX, USA.

December 1994 – March 2016
Network Engineer, Fitzhugh and Elliott P.C., Houston, TX, USA

August 2002 – July 2005; July 2006 – October 2012
Identity Management Officer / Lead System Administrator, Infrastructure Systems and Services, Texas A&M University, College Station, TX, USA

July 2005 – July 2006
Chief Technology Officer, Adjunct Faculty Business and Technology, Adjunct Faculty Community Outreach, Montana State University, Great Falls, MT, USA

March 2000 – December 2002
Manager, Global Data Network Engineering, Viatel, Inc./VTL (UK) Ltd, Egham, Surrey, United Kingdom and Bryan, TX, USA

August 1998 – March 2000
Communications Engineer, Shell Services International, Houston, TX, USA. 8/1998 – 3/2000.

May 1996 – August 1998
Consulting Network Engineer, British Telecommunications, plc. and British Telecom North America, Inc., London, Docklands, United Kingdom/Houston, TX, USA

HONORS & AWARDS

- Outstanding Issue Award, Advances in Developing Human Resources Journal, 2017
- University Open Access Award, University Libraries/Student Government Association, 2016
- University Tier One Program, Dean of Faculties, 2016
- University Professor of Practice, Center for Teaching Excellence, 2015
- University Service Learning Fellow, 2014
- University High Impact Faculty Fellow, 2014
- Employee of the Semester, Texas A&M University, 2012

PUBLICATIONS AND PRESENTATIONS

A. Refereed Journal Articles

2. **Beyerlein, M., Jones, R., Peck-Parrot, K**. (June 2017). Leveraging Undergraduate HRD Programs to Advance Practice and Research. Advances in Developing Human Resources 19(2).

1. **Lindner, J., Edney, K, Jones, T.** (2010). Using Instructional Technologies Outside the Classroom: Graphing Calculators and the Texas FFA Agricultural Mechanics Career Development Event. Journal of Southern Agricultural Education Research: Vol 60, 2010.

B. Invited Presentations at Conferences

8. **Jones, T. (2018).** Digital Forensics and Incident Response Curricular Development at Texas A&M University. Session presentation at the National Security Agency National Cybersecurity Curricular Program, South Lake Tahoe, CA.

7. **Jones, T.** (2017). Threat-based gamification engineering for courses. Session presentation at the National Centers of Academic Excellence Session, National Institutes of Standards and Technology Conference, Dayton, OH.

6. **Jones, T.** (2017). Interdisciplinary service learning and learning communities: Integrating high-impact practices into a classroom of students from different disciplines. Session presentation at the Wakonse South Conference, Burnet, TX.

5. **Ragsdale, D., Jones T.** (2017) Cybersecurity Frontiers. Session presentation at the Texas A&M University Information Technology System Conference, Galveston, TX.

4. **Jones, T.** (2016). Beyond the Pale: Game Theory in the Classroom. Session presentation at the Wakonse South Conference, Burnet, TX.

3. **Jones, T.** (2015). Using Twitter in the Classroom. Session presentation at the Wakonse South Conference, Burnet, TX.

2. **Jones, T., Martinez, J.** (2015). Temporal Changes in Texas A&M Demographics Visualized Through Music. Session presentation at the Texas A&M University Climate Matters Conference, College Station, TX.

1. **Jones, R., Edney, K.** (2003). Student Competencies with Graphing Calculators and Achievement in the Texas FFA Agricultural Mechanics Career Development Event. Session presentation at the annual meeting of the National Agricultural Education Research Conference, Orlando, FL.

C. Guest Lecturing/Invited Teaching

13. **Jones T.** (2017, November 13). Digital Forensics. Presented to undergraduate students in FIVS 205. College Station, TX: Texas A&M University.

12. **Jones, T.** (2017, September 28) Social Media, Dark Web, and Terrorism. Presented to the students in PSAA 660. College Station, TX. Texas A&M University.

11. Davis, D., and **Jones, T.** (2017, September 27) Cyber: Policy, Issues, and Security. Presented by the Government Services Unit. College Station, TX. Texas A&M University.

10. **Jones, T.** (2017, September 14) Cyber Operations. Presented to graduate students in PSAA 608. College Station, TX: Texas A&M University.

9. **Jones, T.** (2017, February 15). Cyber Operations. Presented to graduate students in PSAA 608. College Station, TX: Texas A&M University.

8. **Jones T.** (2016, November 21). Digital Forensics. Presented to undergraduate students in FIVS 205. College Station, TX: Texas A&M University.

7. **Jones T.** (2016, October 20). Cyberterrorism: The Homegrown Threat. Presented to graduate students in PSAA 660. College Station, TX: Texas A&M University.

6. **Jones T.** (2016, March 4). Unix System Security Vulnerabilities. Presented to undergraduate students in CSCE 465. College Station, TX: Texas A&M University.

5. **Jones T.** (2016, April 8). Ethical Penetration in Hacking Scenarios. Presented to undergraduate students in CSCE 465. College Station, TX: Texas A&M University.

4. **Jones T.** (2015, April 15). Digital Forensics. Presented to undergraduate students in FIVS 205. College Station, TX: Texas A&M University.

3. **Jones T.** (2014, October 24). Digital Forensics. Presented to undergraduate students in FIVS 205. College Station, TX: Texas A&M University.

2. **Jones T.** (2014, October 10). Cyberethics. Presented to undergraduate students in ALED 424. College Station, TX: Texas A&M University.

1. **Jones T.** (2014, April 16). Intersections of Human Resource Development and Technology Management. Presented to undergraduate students in FIVS 481. College Station, TX: Texas A&M University.

MEMBERSHIPS & AFFLIATIONS

- Association of Information Technology Professionals
- FBI InfraGard, Houston Chapter, Bryan/College Station Special Interest Group

SERVICE

A. Editorial Positions

- Technical Editor, Advancing Women in Leadership Journal, July 2015—present

B. National Service

- Mentor, National Security Agency, Centers of Academic Excellence
- Principal Author, Texas A&M Accreditation as a Center of Academic Excellence in Cyber Defense Education, January – March 2016
- Co-author, Texas A&M Accreditation as a Center of Academic Excellence in Cyber Defense Research, January – March 2016
- Principal Author, Texas A&M Accreditation as a Center of Academic Excellence in Cyber Operations, January – May 2017

C. University Service

- Parliamentarian, Texas A&M University Faculty Senate (February 2017 – August 2017)
- Academic Professional Track, Faculty Senate Subcommittee (May 2014 – May 2017)
- Faculty Senate, Place 2, College of Education and Human Development (October 2014 – May 2017)
- Chair, University Climate and Workforce Development Committee (2015 – 2016)
- Member, University Core Curriculum Council (June 2016 – May 2017)
- Lead Author/Curricular Development, Cybersecurity Minor (2015)
- Maroon and White Leadership Fellow Faculty Sponsor (2015 – 2017)
- Faculty Advisor, Association of Information Technology Students (2015 – 2016)
- Faculty Advisor, Texas A&M Cybersecurity Club (2015 – present)

D. College-Level Service

- Dean's Faculty Advisory Committee (October 2015 – February 2017)
- Dean's Council (October 2015 – February 2017)
- Caucus Leader, Faculty Senate, College of Education and Human Development (October 2015 – February 2017)

E. Departmental-Level Service

- Curricular Development Cycle (Fall 2016), Minor in TCMG
- Undergraduate Research Sponsor (2016 – 2017)
- Search Committee Chair (undergraduate HRD), Fall 2015

- Undergraduate Research Sponsor (2015 – 2016)
- Undergraduate Winning Team: Student Research Week, 2015
- Search Committee Member (undergraduate HRD), Summer 2015
- Undergraduate Program Coordinator (June 2014 – May 2015)
    o Restructuring of degree programs following Academic Program Review

F. Community Service

- First United Methodist Church, Sanctuary Choir, June 2014 – present
- CyberPatriot Mentor, U.S. Air Force Association, May 2017 – present

DISSERTATION ADVISING AND COMMITTEES

A. Doctoral Committee Memberships

2. Joshi, Suresh (2017, February). In progress. Department of Educational Psychology.

1. Lightfoot, Robert (2016, December). In progress. Department of Computer Science and Engineering.

FUNDED AND PENDING SPONSORED RESEARCH

Current

Agency	Role	Title	Award Amount	Period Covered	Yearly Months	Location
DoEd	Co-PI	Literacy-Infused Science Using Technology Innovation Opportunity (LISTO)	$12,000,000	1/1/2017 – 12/31/2021	1.2	College Station, TX
NSF	Co-PI	TAMU Cyber-leader Scholarship Program	$4,452,010	9/1/17 – 8/31/22	1.5	College Station, TX
NSA via Virginia Tech	PI	The Texas Cyber Range: Interstate Capacity Building	$186,746	8/1/2017 – 7/31/2019	2.0	College Station, TX
NSA	Co-PI	Course Capacity Building for the Texas Cyber Range	$132,297	4/10/2017 – 4/25/2018	2.5	College Station, TX
Air Force Research Lab via Clarkson	Co-PI	Capacity Building in Cybersecurity through the Cyber-Leader Scholars Program	$499,979	9/1/2017 – 12/31/2018	0.25	College Station, TX
NSF	SrPers	Cyberinfrastructure Security Education for Professionals and Students	$499,996	9/1/2017 – 8/31/2020	1.0	College Station, TX
DARPA via Two Six Labs LLC	Co-PI	Project Plan X	$252,550	9/1/2017 – 12/31/2018	1.0	College Station, TX
DoEd	Sr Pers	Project Empowering Teachers of English Language Learners (ETELL)	$5,500,000	9/1/2016 – 8/31/2020	1.0	College Station, TX
NSA	Co-PI	GenCyber 2018	$100,000	3/1/2018 –	1.0	College

				3/31/2019		Station, TX
NSA	Co-PI	The Cyber-Leader Scholarship Program: Developing Human Capital in Cybersecurity	$334,010	9/1/2017 – 8/31/2018	2.0	College Station, TX

Completed

NSA	Co-PI	Engaging the Future: Human Capacity Building in Cybersecurity	$199,968	09/08/16 – 03/31/2018	1.5	College Station, TX
NSF/NSA	Co-PI	GenCyber: Teach the Teacher: Summer Camp	$100,000	3/28/2017 – 3/27/2018	1.0	College Station, TX

Pending

Agency	Role	Title	Pending Amount	Period Covered	Yearly Months	Location
NSF	Co-PI	NICRS: The National Interstate Cyber Range System	$300,000	6/1/2018 – 5/31/2019	1.5	College Station, TX
NSF	Co-PI	Capacity Building for the Texas Cyber Range	$499,993	6/1/2018 – 5/31/2020	1.5	College Station, TX
NSA	Co-PI	The 2018 P3 Cyber-Leader Scholar Program: Developing Human Capital in Cybersecurity for the Department of Defense	$407,685	9/1/2018 – 8/31/2019	2.5	College Station, TX
NSA	Co-PI	The 2018 IASP Cyber-Leader Scholar Program: Developing Human Capital in Cybersecurity for the Department of Defense	$721,004	9/1/2018 – 8/31/2019	2.5	College Station, TX
DoC/NIST	SrPers	PSIAP – Point Cloud City Integration and Indoor Localization of Buildings Using 3D Point Cloud Information in Emergency Management	$499,876	9/1/2018 – 8/31/2019	1.08	College Station, TX
State Department	Co-I	Enhancing Detection of Information Warfare through Social Media Analytics	$442,615	9/1/2018 – 8/31/2019	1.5	College Station, TX

NON-SPONSORED RESEARCH AND GRANT ACTIVITY

Sep-16	TAMU Health Science Center	PI	Additional Cisco Network Equipment for Enhancing the EDCT 616 Lab Environment	$103,000
Jun-16	Dean of Faculties	Co-PI	Famine to Feast: Engaging Texas Food Banks	$291,000
Dec-15	TAMU Office of Diversity	PI	Temporal Analysis of Enrollment at Texas A&M University's Schools and Colleges through Digital Musical Composition and	$2,300

			3D Printed Visualization	
Sep-15	CEHD	PI	Rita Haynes Transfer Learning Community	$5,000
Jun-15	Center for Teaching Excellence	PI	Pilot Program for Instructional Professors of Practice	$5,000
Jun-15	Dean of Faculties	PI	"Flip Your Course"	$2,000
Apr-15	TAMU IT	PI	UAF Computer Award	$2,850
Feb-15	George Bush Presidential Library Foundation	PI	Enhancing Collaboration between Texas A&M University and Taiwanese Institutions	$5,000
Jan-15	Amazon Web Services	PI	Amazon AWS EC2	$550
Dec-14	Confucius Institute	PI	China Study Abroad Program Grant	$8,000
Sep-14	Associate Provost Undergraduate Programs	PI	Development of Academic Advising Training Materials	$7,000
Jun-14	Center for Teaching Excellence	PI	University Service Learning Fellow	$3,000
Jun-14	Center for Teaching Excellence	Co-PI	University High Impact Faculty Fellow	$3,000
Jan-14	Amazon Web Services	PI	Amazon AWS EC2 for EHRD 489	$2,400

TEACHING, COURSE, AND CURRICULAR DEVELOPMENT

Developed at Texas A&M University

Cybersecurity
CYBR 601- Fundamentals of Cybersecurity
CYBR 684- Professional Internship
Minor field of study- Cybersecurity (housed in the College of Engineering)
Certificate in Cybersecurity Policy (housed in the George Bush School of Government and Public Service)
Creation of CYBR prefix

Human Resource Development
EHRD 210- Legal and Ethical Environment of Human Resource Development
EHRD 289- Special Topics: Technology and End-User Support
EHRD 315- Applied Human Resource Development in the Workplace
EHRD 474- Distance Networking for Training and Development
EHRD 476- Managing Technical Networks
EHRD 481- Capstone Seminar HRD/TCM
EHRD 484- Professional Internship
Complete overhaul of B.S. HRDV following Academic Program Review

Forensic Investigative Science
FIVS 310- Digital Forensics and Incident Response

International Affairs
INTA 689- Cybersecurity Literacy for the Global Arena

Military Science
MLSC 485- Cybersecurity Leadership

Technology Management
TCMG 272- Technology and End User Support
TCMG 274- Distance Networking for Training and Development
TCMG 285- Directed Studies
TCMG 303- Unix System Administration Practices
TCMG 304- Applied Server Security, Identity and Access Management
TCMG 308- Cybersecurity and Digital Ethics

TCMG 412- Contemporary Issues in Technology Management
TCMG 476- Managing Technical Networks
TCMG 484- Professional Internship
TCMG 485- Directed Studies
TCMG 491- Research
Minor field of study- Technology Management
Creation of TCMG prefix
Complete overhaul of B.S. TCMG following Academic Program Review

Developed at Sam Houston State University

Management Information Systems
MGIS 3310- Management Information Systems

Human Resource Management
MGMT 3330- Foundations of Human Resource Management

Developed at Blinn College

Information Technology
ITSC 1407- Unix Operating Systems I
ITSC 2437- Unix Operating Systems II