

July 2022

# TRAIAN MARIUS TRUTA

## CURRICULUM VITAE

### **University Address:**

Northern Kentucky University  
Department of Computer Science  
Highland Heights, KY 41099  
Phone: (859) 572-7551  
E-mail: trutat1@nku.edu

### **RESEARCH AND TEACHING INTERESTS**

**Research:** Social Networks, Social Media, Fake News, Data Mining, Data Privacy and Anonymity, Statistical Databases, Disclosure Control, Spatial Databases.

**Teaching:** Database Concepts, Database Administration, Programming Languages, Theory of Computation, Operating Systems, Data Mining, Data Structures, Web Programming and Administration, NoSQL Databases.

### **EDUCATION**

#### **PH.D. IN COMPUTER SCIENCE, WAYNE STATE UNIVERSITY, DETROIT, MICHIGAN, 2004**

- Thesis: "Adaptive Disclosure Control for Healthcare Microdata"
- Advisors: Prof. Farshad Fotouhi, Prof. Daniel Barth-Jones
- GPA: 3.93

#### **M.S. IN COMPUTER SCIENCE, "BABES-BOLYAI" UNIVERSITY, CLUJ, ROMANIA, 1999**

- Thesis: "Analysis and Design Methods in Distributed Systems"
- Advisor: Prof. Grigor Moldovan
- Graduated the MS degree with average of 10 (out of 10)

#### **B.S. IN COMPUTER SCIENCE, "BABES-BOLYAI" UNIVERSITY, CLUJ, ROMANIA, 1998**

- Thesis: "Reverse Engineering – Analysis and Representation"
- Advisor: Prof. Grigor Moldovan
- Average over all four academic years of 9.97 (out of 10)
- Passed the Graduation Exam with the average of 10.00 (out of 10)
- Ranked the first in the Department of Computer Science

## **TEACHING AND WORK EXPERIENCE**

**JULY 2022 – PRESENT: SCHOOL OF COMPUTING AND ANALYTICS, NORTHERN KENTUCKY UNIVERSITY, KENTUCKY**

***INTERIM SCHOOL DIRECTOR (2022 – 2023)***

***PROFESSOR (2016 – PRESENT)***

**AUGUST 2004 – 2022: DEPARTMENT OF COMPUTER SCIENCE, NORTHERN KENTUCKY UNIVERSITY, KENTUCKY**

***ASSISTANT CHAIR (2019 – 2022)***

***MSCIT PROGRAM DIRECTOR (2009 – 2010 AND 2011 – 2018)***

***SABBATICAL LEAVE (SPRING 2019)***

- Performing research at NKU (January 2019 – May 2019)

***ASSOCIATE PROFESSOR (2010 – 2016)***

***SABBATICAL LEAVE (2011 – 2012)***

- Visiting Researcher at Purdue University (August 2011 – December 2011)
- Visiting Researcher at University of Cincinnati (November 2011 – April 2012)

***ASSISTANT PROFESSOR (2004 – 2010)***

***COURSES TAUGHT (2004 – PRESENT)***

- CSC 350 – Database Programming (Fall 2021, Spring 2022, Summer 2022)
- CIT 472 / 572 – Database Administration (Fall 2008, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Fall 2019, Spring 2020, Fall 2020, Spring 2021)
- CIT 693 – Best Practices in IT Seminar (Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Spring 2017, Spring 2018, Spring 2020, Spring 2021)
- CSC 694 – Advanced Graduate Topics in Computer Science (Spring 2020, Spring 2021)
- CIT 672 – Advanced Database Administration (Fall 2010, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020)
- CSC 694 – Advanced Database Administration (Fall 2020)
- CIT 596 – Computer Information Technology Practicum (Fall 2014, Spring 2015, Summer 2015, Fall 2015, Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2017, Summer 2017, Fall 2017, Spring 2018, Summer 2018, Fall 2018)
- CIT/CSC/DSC 396 – CIT/CSC/DSC Practicum (Summer 2015, Summer 2016, Summer 2017, Spring 2017, Summer 2018)
- CEP 300 – Cooperative Education (Spring 2015, Summer 2015, Summer 2016, Summer 2017, Summer 2017)
- CSC 415 / 515 – Android Mobile App Development (Spring 2016)
- CEP 600 – Graduate Cooperative Experience (Fall 2013, Spring 2014, Summer 2014)
- CSC 402 / 502 – Advanced Programming Methods (Fall 2004, Spring 2013, Spring 2014)
- INF 286 – Introduction to Web Development (Summer 2013)

- CIT 500 – Information Technology Fundamentals (Spring 2010, Spring 2011)
- CSC 399 – Programming Competition (Fall 2010)
- CSC 650 – Advanced Database Systems (Spring 2005, Spring 2008, Spring 2010)
- CIT 501 – Scripting (Fall 2009)
- CSC 450 / 550 – Database Management Systems (Fall 2007, Fall 2009)
- CSC 460 / 560 – Operating Systems (Fall 2005, Spring 2006, Fall 2006, Fall 2007, Spring 2009)
- CSC 660 – Advanced Operating Systems (Spring 2009)
- CSC 360 – Object-Oriented Programming II (Fall 2008)
- INF 120 – Elementary Programming (Fall 2006, Spring 2008)
- CIT 386 – Web and Database Administration (Spring 2007, Spring 2008)
- CIT 486 – Three Tier Web Applications (Fall 2007)
- CSC 150 – Computer Concepts and Applications (Spring 2007)
- CIT 140 – Introduction to Computer Information Technology (Spring 2006, Spring 2007)
- CSC 694 – Data Privacy and Anonymity (Fall 2006)
- CSC 485 / 585 – Theory of Computation (Fall 2004, Spring 2005, Summer 2006)
- CSC 350 – Database Management Systems (Spring 2005, Spring 2006)
- CSC 260 – Computer Programming I (Fall 2004, Fall 2005)
- CSC 260L – Computer Programming Laboratory (Fall 2005)
- CSC 594 – Introduction to Databases (Fall 2005)

**AUGUST 1999 – AUGUST 2004: DEPARTMENT OF COMPUTER SCIENCE, WAYNE STATE UNIVERSITY, MICHIGAN**

***TEACHING ASSISTANT***

- Assistant for CSC 8990 – Graduate Seminar (Fall 2003)
- Instructor for CSC 4420 – Computer Operating Systems (Winter 2000)
- Instructor for CSC 2000 – Introduction to C++ Programming Language (Fall 2000)
- Lab Instructor for CSC 2200 – Data Structures and Algorithm Analysis (Fall 1999, Winter 2000)
- Lab Instructor for CSC 2110 – Introduction to Data Structures and Abstraction (Fall 2001)
- Lab Instructor for CSC 1000 – Introduction in Computer Science (Fall 1999)

***LECTURER***

- CSC 4500 – Introduction to Theoretical Computer Science (Spring / Summer 2001, Spring / Summer 2004)
- CSC 4420 – Computer Operating Systems (Spring / Summer 2001)
- CSC 2200 – Data Structures and Algorithm Analysis (Spring / Summer 2000)

***RESEARCH ASSISTANT (JANUARY 2002 – AUGUST 2003)***

- Statistical disclosure control, disclosure risk and information loss for healthcare microdata (work in collaboration with Dr. Daniel Barth-Jones from Center for Healthcare Effectiveness, Wayne State University)

**OCTOBER 1997 – AUGUST 1999: DEPARTMENT OF COMPUTER SCIENCE, "BABES-BOLYAI" UNIVERSITY, CLUJ-NAPOCA, ROMANIA**

***TEACHING ASSISTANT***

- Lab Instructor for Introduction in Computer Science (Fall 1998)
- Lab Instructor for Integrated Systems for Design and Implementation (Winter 1999)

### **RESEARCH ASSISTANT (OCTOBER 1997 – AUGUST 1999)**

- System Analyst and Software Developer for the CASE tool ROCASE (the best Romanian software product 1998)
- System Analyst and Software Developer for the reverse engineering tool PHOENIX

### **GRANT ACTIVITY**

- Co-Principal Investigator, **NKU INFORMATICS+ Grant** titled “The Know Rivalry Project: Measuring and Analyzing the Global Phenomenon of Rivalry.” Total grant amount: \$10,845.74, July 2020 – June 2021.
- Principal Investigator, **NKU CINSAM Grant** titled “Understanding Fake News Spreading in Social Networks.” Total grant amount: \$9,706.13, January 2019 – December 2019.
- Principal Investigator, **NKU Faculty Sabbatical Leave** titled “Big Data Challenges: Social Networks and NoSQL Databases.” Total grant amount: N/A (one semester), January 2019 – June 2019.
- Principal Investigator, **NKU Faculty Sabbatical Leave** titled “Data Privacy Research and Collaboration Visits.” Total grant amount: N/A (one academic year), July 2011 – June 2012.
- Principal Investigator, **NKU CINSAM Grant** titled “Achieving Privacy while Preserving Data Utility.” Total grant amount: \$11,712, January 2009 – December 2009.
- Equipment request for a database server, College of Informatics, Northern Kentucky University, Award amount: \$3,762. October 2008.
- Principal Investigator, **NKU Faculty Summer Fellowship** titled “Extended p-Sensitive k-Anonymity for Privacy Protection.” Total grant amount: \$6,000, May 2007 – August 2007.
- Principal Investigator, **NSF EPSCoR Research Enhancement Grant (REG)** titled “P-Sensitive K-Anonymity Property for Microdata.” Total grant amount: \$30,181. June 2006 – December 2007.
- Equipment request for a database server, College of Art and Sciences, Northern Kentucky University, Award amount: \$2,860. October 2004.
- Applied as Principal Investigator for an **NSF EPSCoR Research Enhancement Grant (REG)** titled “Understanding Fake News Spreading in Online Social Networks.” Total amount requested: \$33,125, June 2018. (Not Funded)
- Applied as Co-Principal Investigator for an **NSF SFS Scholarship Grant** titled “New CyberCorps SFS Program at Northern Kentucky University.” Total amount requested: \$2,250,691.00, September 2016. (Not Funded)
- Applied as Principal Investigator for an **NKU Signature Area** titled “Data Privacy.” Total amount requested: N/A, December 2015. (Not Funded)
- Applied as Co-Principal Investigator for an **NSF SFS Scholarship Grant** titled “New CyberCorps SFS Program at Northern Kentucky University.” Total amount requested: \$2,654,961, October 2014. (Not Funded)
- Applied as Principal Investigator for an **NKU Project Grant** titled “Support for Data Privacy Research and Collaboration Visits.” Total amount requested: \$5,797, October 2010. (Not Funded)
- Applied as Co-Principal Investigator for an **NSF TUES** grant titled “Integrating Emerging Technologies into IT Undergraduate Education.” Total amount requested: \$199,984, May 2010. (Not Funded)
- Applied as Principal Investigator for an **NSF CAREER** grant titled “Privacy Protection for Social Networks.” Total amount requested: \$450,692, July 2009. (Not Funded)

- Applied as Co-Principal Investigator for an **NSF CCLI** grant titled “Integrating Mobile/Wireless Networks and IP Telephony Courses into the Computing Curriculum.” Total amount requested: \$157,505, May 2009. (Not Funded)
- Applied as Principal Investigator for an **NSF CAREER** grant titled “Data Model Driven Privacy Protection.” Total amount requested: \$450,692, July 2008. (Not Funded)
- Applied as Principal Investigator for an **NSF EPSCoR Research Enhancement Grant (REG)** titled “Achieving Privacy while Preserving Data Utility.” Total amount requested: \$49,884, May 2008. (Not Funded)
- Applied as Co-Principal Investigator for an **NSF CCLI** grant titled “Development of an Open Lecture Design for STEM Classes.” Total amount requested: \$141,790, May 2007. (Not Funded)
- Applied as Principal Investigator for an **NSF CyberTrust** grant titled “Privacy Models for Healthcare Microdata.” Total amount requested: \$195,520, January 2007. (Not Funded)
- Applied for CINSAM Outreach Grant for the proposal “NKU Museum of Natural History Inventory Database and Dioramas” (with Dr. Richard D. Durtsche and Mr. Kevin Munte), Total Amount requested: \$8,800. 2004. (Not Funded)

## **AWARDS AND HONORS**

- Sabbatical Leave during the Spring 2019 for the project “Big Data Challenges: Social Networks and NoSQL Databases,” Northern Kentucky University, 2018.
- Faculty International Travel Award (\$1,000), Office of Education Abroad, Northern Kentucky University, Highland Heights, KY, 2015.
- **Outstanding Educators 2013 Award**, Cincy – The Magazine for Business Professionals, Cincinnati, Ohio, April 2013.
- Sabbatical Leave during the Academic Year 2011-2012 for the project “Data Privacy Research and Collaboration Visits,” Northern Kentucky University, 2011.
- **Best Paper Award** in the American Society for Engineering Education (ASEE 2010) Conference, Graduate Studies Division for the paper “Development and Implementation of a Master’s Program in Computer Information Technology,” Louisville, KY, 2010 (with Dr. Hetal Jasani).
- NKU Excellent Performance by a Faculty Member for a Project, Innovation, or Creative Activity, Excellence in Scholarly/Creative Category Award 2010, Northern Kentucky University, 2010.
- Featured in NKU Discoverer Research Publication, “*Privately Public: Protecting privacy in the information age*,” Northern Kentucky University, 2010.
- **Yahoo! Research Best Paper Award** for Privacy, Security, and Trust in KDD 2008 (PinKDD 2008) for the paper “A Clustering Approach for Data and Structural Anonymity in Social Networks,” Las Vegas, NE, 2008 (with Dr. Alina Campan).
- Faculty Summer Fellowship, Northern Kentucky University, 2007.
- Certificate of Achievement awarded as a coach of the NKU Norse team for the ACM Mid-Central USA Programming Contest, Lexington, KY, 2004, 2005, 2006, and 2007.
- Michael E. Conrad Outstanding Graduate Research Publication Award, Department of Computer Science, Wayne State University, 2004.
- Certificate of Recognition as Graduate Research Assistant, Department of Computer Science, Wayne State University, 2002.
- Nominated for Herberlein Teaching Award, Wayne State University, 2001.
- Certificate of Recognition as a Graduate Teaching Assistant, Department of Computer Science, Wayne State University, 2000.

- “The Best Romanian Software” for Rocase, a CASE tool developed at Computer Science Research Laboratory lead by Dr. Dan Chiorean (team prize), CERF International Fare, Bucharest, 1998.
- Special Prize, The National Computer Science Contest for Students, Cluj-Napoca, Romania, 1995.
- 2<sup>nd</sup> place, The National Mathematics Contest “Grigore Moisil,” Romania, 1994.

## **PEER-REVIEWED PUBLICATIONS**

### **BOOK CHAPTERS:**

- Traian Marius Truta, Alina Campan, Matthew Beckerich, “*Efficient Approximation Algorithms for Minimum Dominating Sets in Social Networks*,” I. (Ed.), Research Anthology on Artificial Intelligence Applications in Security (pp. 1120-1153). IGI Global. <http://doi:10.4018/978-1-7998-7705-9.ch052> (reprint of a journal article)
- Traian Marius Truta, Michail Tsikerdekis, and Sherali Zeadally, “*Privacy in Social Networks*,” book chapter in “Privacy In a Digital, Networked World,” ISBN: 978-3-319-08469-5, pp. 263 – 290, Springer, 2015.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Global Disclosure Risk for Microdata with Continuous Attributes*,” book chapter in “Privacy and Technologies of Identity: A Cross Disciplinary Conversation,” ISBN: 0-387-26050-1, pp. 349 – 364, Springer, 2006.

### **JOURNAL ARTICLES:**

- Traian Marius Truta, Alina Campan, Matthew Beckerich, “*Efficient Approximation Algorithms for Minimum Dominating Sets in Social Networks*,” International Journal of Service Science, Management, Engineering, and Technology, Vol. 9, No. 2, 2018, pp. 1 – 32.
- Alina Campan, Yasmeeen Alufaisan, Traian Marius Truta, “*Preserving Communities in Anonymized Social Networks*,” Transactions on Data Privacy Journal, Volume 8, Number 1, 2015, pp. 55 – 87.
- Chenyun Dai, Fang-Yu Rao, Traian Marius Truta, Elisa Bertino, “*Privacy-Preserving Assessment of Social Network Data Trustworthiness*,” International Journal of Cooperative Information Systems, Vol. 23, No. 2, 1441004 (32 pages), 2014.
- Traian Marius Truta, Alina Campan, Xiaoxun Sun, “*An Overview of P-Sensitive K-Anonymity Models for Microdata Anonymization*,” International Journal of Uncertainty, Fuzziness and Knowledge Based Systems, Volume 20, Number 6, pp. 819 – 837, 2012.
- Bilal Hawashin, Farshad Fotouhi, Traian Marius Truta, William Grosky, “*Efficient Privacy Preserving Protocols for Similarity Join*,” Transactions on Data Privacy Journal, Volume 5, Number 1, pp. 297 – 331, 2012.
- Alina Campan, Traian Marius Truta, Nicholas Cooper, “*P-sensitive K-anonymity with Generalization Constraints*,” Transactions on Data Privacy Journal, Volume 3, Number 2, 2010, pp. 65 – 89.
- Traian Marius Truta, Alina Campan, “*Avoiding Attribute Disclosure with (Extended) P-Sensitive K-Anonymity Model*,” Annals of Information Systems Journal, Special Issue on Data Mining, Volume 8, pp. 353 – 373, 2010.
- Alina Campan, Traian Marius Truta, “*Data and Structural K-Anonymity in Social Networks*,” F. Bonchi et al. (Eds.): PinKDD 2008, Lecture Notes in Computer Science, Volume 5456, Springer, pp. 33 – 54, 2009.

- Xiaoxun Sun, Hua Wang, Jiuyong Li, Traian Marius Truta, “*Enhanced P-Sensitive K-Anonymity Models for Privacy Preserving Data Publishing*,” Transactions on Data Privacy Journal, Vol. 1, Issue 2, pp. 53 – 66, 2008.
- Traian Marius Truta, Alina Campan, Michael Abrinica, John Miller, “*A Comparison between Local and Global Recoding Algorithms for Achieving Microdata P-Sensitive K-Anonymity*,” Acta Universitatis Apulensis, Alba Iulia, Romania, No. 15, pp. 213 – 233, 2008.
- Alina Campan, Traian Marius Truta, “*Extended P-Sensitive K-Anonymity*,” Studia Universitatis Babes-Bolyai, Informatica, Vol. 51, No. 2, pp. 19 – 30, 2006.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Global Disclosure Risk Measures and k-Anonymity Property for Microdata*,” Acta Universitatis Apulensis, Alba Iulia, Romania, No. 11, pp. 149 – 169, 2006.
- Madalina Valeanu, Traian Marius Truta, “*Integrity Aspects in Distributed Databases*,” Journal of Applied Medical Informatics, Vol. 17, No 3, pp. 42 – 47, Romania, 4/2005.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Automatic Generation of Masked Microdata*,” Acta Universitatis Apulensis, Alba Iulia, Romania, No. 6, pp. 117 – 137, 2003.

#### CONFERENCE PAPERS:

- Joe Cobbs, David Tyler, Traian Marius Truta, Bridget Nichols, “*Mitigating Antisocial Effects in College Football Rivalries*,” AMA Summer Academic Conference (AMA 2022, Chicago, Illinois, 2022).
- Traian Marius Truta, Alina Campan, Parker Kain, Tobel Atnafu, Joseph Nolan, Alyssa Appelman, “*Twitter Streaming API Data Collection for Infrequent Keywords*,” International Conference on Data Science (ICDATA 2019), Las Vegas, Nevada, 2019.
- Traian Marius Truta, “*The Number of Non-Competitive Matches in 2026 FIFA World Cup*,” ISSAT International Conference on Data Science and Intelligent Systems (DSIS 2019), Las Vegas, Nevada, 2019.
- Alina Campan, Traian Marius Truta, Matthew Beckerich, “*Approximation Algorithms for D-Hop Dominating Set Problem*,” International Conference on Data Mining (DMIN 2016), Las Vegas, Nevada, 2016.
- Alina Campan, Anca Andreica, Traian Marius Truta, “*Do Anonymized Networks Preserve Communities?*,” International Conference on Computers and Their Applications (CATA 2016), Las Vegas, Nevada, 2016.
- Alina Campan, Traian Marius Truta, Matthew Beckerich, “*Fast Dominating Sets Algorithms for Social Networks*,” Modern Artificial Intelligence and Cognitive Science Conference (MAICS 2015), Greensboro, North Carolina, 2015.
- John Dwyer, Traian Marius Truta, “*Finding Anomalies in Windows Event Logs using Standard Deviation*,” International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2013), Austin, Texas, pp. 563 – 570, 2013.
- Chenyun Dai, Fang-Yu Rao, Traian Marius Truta, Elisa Bertino, “*Privacy-Preserving Assessment of Social Network Data Trustworthiness*,” International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2012), Pittsburg, Pennsylvania, pp. 97 – 106, 2012.
- Traian Marius Truta, Alina Campan, Anca Ralescu, “*Preservation of Structural Properties in Anonymized Social Networks*,” International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2012), Pittsburg, Pennsylvania, pp. 619 – 627, 2012.

- Traian Marius Truta, Alina Campan, Ashley Gasmi, Nicolas Cooper, Andrew Elstun, “*Centrality Preservation in Anonymized Social Networks*,” International Conference on Data Mining (DMIN2011), Las Vegas, Nevada, 2011.
- Wei Hao, Hetal Jasani, Traian Marius Truta, “*Preparing for Future Data Center Professionals: Integrating Storage Technology into the Computer Information Technology Curriculum*,” 2011 ASEE/IEEE Frontiers in Education Conference (FIE 2011), Rapid City, South Dakota, USA.
- Hetal Jasani, Traian Marius Truta, “*Development and Implementation of a Masters Program in Computer Information Technology*,” 2010 ASEE Annual Conference and Exposition, Louisville, KY, 2010 - **Best Paper Award** at ASEE Graduate Studies Division.
- Alina Campan, Traian Marius Truta, Nicholas Cooper, “*User-Controlled Generalization Boundaries for P-Sensitive K-Anonymity*,” ACM Symposium on Applied Computing (SAC2010), special track on Data Mining, Sierre, Switzerland, pp. 1103 – 1104, 2010.
- Roy Ford, Traian Marius Truta, Alina Campan, “*P-Sensitive K-Anonymity for Social Networks*,” International Conference on Data Mining (DMIN2009), Las Vegas, Nevada, pp. 403 – 409, 2009.
- Xiaoxun Sun, Hua Wang, Jiuyong Li, Traian Marius Truta, Ping Li, “*( $p+$ ,  $\alpha$ )-Sensitive k-Anonymity: A New Enhanced Privacy Protection Model*,” IEEE International Conference on Computer and Information Technology (CIT2008), Sydney, Australia, pp. 59 – 64, 2008.
- Alina Campan, Traian Marius Truta, John Miller, Raluca Sinca, “*A Clustering Approach for Achieving Data Privacy*,” International Conference on Data Mining (DMIN2007), Las Vegas, Nevada, pp. 321 – 327, 2007.
- Traian Marius Truta, Alina Campan, “*k-Anonymization Incremental Maintenance and Optimization Techniques*” ACM Symposium on Applied Computing (SAC2007), special track on Data Mining, Seoul, Korea, pp. 380 – 387, 2007.
- Alina Campan, Gabriela Serban, Traian Marius Truta, Andrian Marcus, “*An Algorithm for the Discovery of Arbitrary Length Ordinal Association Rules*,” International Conference on Data Mining (DMIN2006), Las Vegas, Nevada, pp. 107 – 113, 2006.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Disclosure Risk Measures for Sampling Disclosure Control Method*,” ACM Symposium on Applied Computing (SAC2004), special track on Computer Applications in Health Care (COMPAHEC2004), Nicosia, Cyprus, pp. 301 – 306, 2004.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Disclosure Risk Measures for Microdata*,” International Conference on Scientific and Statistical Database Management (SSDBM2003), Cambridge, Massachusetts, pp. 15 – 22, 2003.

#### WORKSHOP PAPERS:

- Alina Campan, Traian Marius Truta, Shawn Huesman, Vamsi Meda, Jake Anderson, “*COVID-19 Vaccine Brand Sentiment on Twitter*,” 2nd International Workshop on Open Challenges in Online Social Networks (OASIS 2022), In Conjunction with ACM Conference on Hypertext and Social Media, Barcelona, Spain, 2022.
- Alina Campan, Traian Marius Truta, Shawn Huesman, Celine Wardrop, Alyssa Appelman, “*Collecting Domain-Relevant Tweets: Creation and Application of a New Framework*,” International Workshop on Deviant Activities on Social Media (DEVIANCE) In Conjunction with IEEE International Big Data Conference, Virtual Conference, 2020.
- Alina Campan, Tobel Atnafu, Traian Marius Truta, Joseph Nolan, “*Is Data Collection through Twitter Streaming API Useful for Academic Research?*,” International Workshop on Big Social Media Data Management and Analysis (BSMDMA) In Conjunction with IEEE International Big Data Conference, Seattle, Washington, 2018.

- Anthony Carella, Murat Kotsoev, Traian Marius Truta, “*Impact of Security Awareness Training on Phishing Click-Through Rates*,” 4th International Workshop on Privacy and Security of Big Data (PSBD 2017) in conjunction with 2017 IEEE International Conference on Big Data (IEEE BigData 2017), Boston, Massachusetts, 2017.
- Alina Campan, Traian Marius Truta, Matthew Beckerich, “*Efficient Approximation Algorithms to Determine Minimum Partial Dominating Sets in Social Networks*,” International Workshop on Mining Big Data in Social Networks (MBD-SONET) In Conjunction with IEEE International Big Data Conference, Santa Clara, California, 2015.
- Alina Campan, Yasmeen Alufaisan, Traian Marius Truta, “*Community Detection in Anonymized Social Networks*,” International Workshop on Privacy and Anonymity in the Information Society (PAIS2014), In Conjunction with 18<sup>th</sup> International Conference of Extending Database Technology (EDBT), Athens, Greece, 2014.
- Alina Campan, Traian Marius Truta, Nicholas Cooper, “*On-the-Fly Generalization Hierarchies for Numerical Attributes Revisited*,” VLDB Workshop on Secure Data Management (SDM2011), In Conjunction with the International Conference of Very Large Data Bases (VLDB), Seattle, Washington, pp. 18 – 32, 2011.
- Bilal Hawashin, Farshad Fotouhi, Traian Marius Truta, “*A Privacy Preserving Efficient Protocol for Semantic Similarity Join Using Long String Attributes*,” International Workshop on Privacy and Anonymity in the Information Society (PAIS2011), In Conjunction with 14<sup>th</sup> International Conference of Extending Database Technology (EDBT), ACM International Conference Proceedings Series, Uppsala, Sweden, 2011.
- Alina Campan, Traian Marius Truta, “*A Clustering Approach for Data and Structural Anonymity in Social Networks*,” 2nd ACM SIGKDD International Workshop on Privacy, Security, and Trust in KDD (PinKDD2008), In Conjunction with the 14th ACM SIGKDD International Conference in Knowledge Discovery and Data Mining (KDD), Las Vegas, Nevada, 2008 - **Yahoo! Research Best Paper Award** at PinKDD 2008.
- John Miller, Alina Campan, Traian Marius Truta, “*Constrained K-Anonymity: Privacy with Generalization Boundaries*,” International Workshop on Practical Preserving Data Mining (P3DM2008), In Conjunction with SIAM Conference on Data Mining (SDM), Atlanta, Georgia, 2008.
- Scot Cunningham, Traian Marius Truta, “*Protecting Privacy in Recorded Conversations*,” International Workshop on Privacy and Anonymity in the Information Society (PAIS2008), In Conjunction with 11<sup>th</sup> International Conference of Extending Database Technology (EDBT), ACM International Conference Proceedings Series, Nantes, France, pp. 26 – 35, 2008.
- Traian Marius Truta, Alina Campan, Paul Meyer “*Generating Microdata with P-Sensitive K-Anonymity Property*,” 4<sup>th</sup> VLDB Workshop on Secure Data Management (SDM2007), In Conjunction with 33<sup>th</sup> International Conference of Very Large Data Bases (VLDB), Vienna, Austria, pp. 124 – 141, 2007.
- Traian Marius Truta, Bindu Vinay, “*Privacy Protection: p-Sensitive k-Anonymity Property*,” International Workshop of Privacy Data Management (PDM2006), In Conjunction with 22<sup>th</sup> International Conference of Data Engineering (ICDE), Atlanta, Georgia, 2006.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Assessing Global Disclosure Risk Measures in Masked Microdata*,” Workshop on Privacy and Electronic Society (WPES2004), In Conjunction with 11<sup>th</sup> ACM CCS, Washington DC, pp. 85 – 93, 2004.
- Traian Marius Truta, Farshad Fotouhi, Daniel Barth-Jones, “*Privacy and Confidentiality Management for the Microaggregation Disclosure Control Method*,” Workshop on Privacy and Electronic Society (WPES2003), In Conjunction with 10<sup>th</sup> ACM CCS, Washington DC, pp. 21 – 30, 2003.

## **PEER-REVIEWED ABSTRACTS:**

- Traian Marius Truta, Alina Campan, Joseph Nolan, Emily Clemmons, Jenna Wallin, “*Estimating the Size of the Twitter Universe*,” 40<sup>th</sup> International Network for Social Networks Analytics Conference (SUNBELT 2020), Paris, France – moved virtually.
- Traian Marius Truta, Alina Campan, Shawn Huesman, Celine Wardrop, Alyssa Appelman, “*Vaccine (Dis)Information on Twitter*,” 40<sup>th</sup> International Network for Social Networks Analytics Conference (SUNBELT 2020), Paris, France – moved virtually.

## **INVITED / NON PEER-REVIEWED PUBLICATIONS**

### **EDITED PROCEEDINGS:**

- Traian Marius Truta, Li Xiong, Alfredo Cuzzocrea, (Eds.), “*Proceedings of the 9<sup>th</sup> International Workshop on Privacy and Anonymity in the Information Society*,” Bordeaux, France, March 15, 2016.
- Traian Marius Truta, Li Xiong, Farshad Fotouhi, (Eds.), “*Proceedings of the 8<sup>th</sup> International Workshop on Privacy and Anonymity in the Information Society*,” Brussels, Belgium, March 27, 2015.
- Traian Marius Truta, Li Xiong, Farshad Fotouhi, (Eds.), “*Proceedings of the 7<sup>th</sup> International Workshop on Privacy and Anonymity in the Information Society*,” Athens, Greece, March 28, 2014.
- Traian Marius Truta, Li Xiong, Farshad Fotouhi, (Eds.), “*Proceedings of the 6<sup>th</sup> International Workshop on Privacy and Anonymity in the Information Society*,” Genoa, Italy, March 22, 2013.
- Traian Marius Truta, Li Xiong, Farshad Fotouhi, (Eds.), “*Proceedings of the 5<sup>th</sup> International Workshop on Privacy and Anonymity in the Information Society*,” Berlin, Germany, March 30, 2012.
- Traian Marius Truta, Li Xiong, Farshad Fotouhi, Kjell Orsborn, Silvia Stefanova (Eds.), “*Proceedings of the 4<sup>th</sup> International Workshop on Privacy and Anonymity in the Information Society*,” Uppsala, Sweden, March 25, 2011.
- Florian Daniel, Lois M. L. Delcambre, Farshad Fotouhi, Irene Garrigós, Giovanna Guerrini, Jose-Norberto Mazón, Marco Mesiti, Sascha Müller-Feuerstein, Juan Trujillo, Traian Marius Truta, Bernhard Volz, Emmanuel Waller, Li Xiong, Esteban Zimányi (Eds.), “*Proceedings of the 2010 EDBT/ICDT Workshops*,” Lausanne, Switzerland, March 22-26, 2010.
- Marco Mesiti, Sascha Müller, Hubert Naacke, Boris Novikov, Guillaume Raschia, Ismael Sanz, Pierre Sens, Dmitry Shaporenkov, Nicolas Travers, Traian Marius Truta, Li Xiong (Eds.), “*Proceedings of the 2009 EDBT/ICDT Workshops*,” Saint Petersburg, Russia, March 22-26, 2009.
- Farshad Fotouhi, Li Xiong, Traian Marius Truta (Eds.), “*Proceedings of the 2008 International Workshop on Privacy and Anonymity in Information Society*,” PAIS 2008, Nantes, France, March 29, 2008.

### **INVITED WORKSHOP PAPERS:**

- Alina Campan, Alfredo Cuzzocrea, Traian Marius Truta, “*Fighting Fake News Spreading in Online Social Networks*,” 4<sup>th</sup> International Workshop on Privacy and Security of Big Data (PSBD 2017) in conjunction with 2017 IEEE International Conference on Big Data (IEEE BigData 2017), Boston, Massachusetts, 2017.

## **MAGAZINE ARTICLES:**

- Traian Marius Truta, Li Xiong, Farshad Fotouhi “*Foreword for the special issue of selected papers from the 7th EDBT/ICDT Workshop on Privacy and Anonymity in Information Society (PAIS 2014)*,” Transactions on Data Privacy Journal, Volume 8, Number 1, 2015, pp. 1 – 2.
- Traian Marius Truta, Li Xiong, Farshad Fotouhi “*Report on International Workshop on Privacy and Anonymity in the Information Society (PAIS 2010)*,” MODAP Newsletter, Volume 1, Issue 4, 2010.
- Li Xiong, Traian Marius Truta, Farshad Fotouhi “*Report on International Workshop on Privacy and Anonymity in the Information Society (PAIS2008)*,” ACM SIGMOD Record, Volume 37, Issue 4, pp. 108 – 111, 2008.

## **THESIS AND TECHNICAL REPORTS**

- Traian Marius Truta, “*FIFA Does it Right: 2026 FIFA World Cup Does not Increase the Number of Non-Competitive Matches*,” arXiv preprint arXiv:1808.05858, 2018.
- Chenyun Dai, Fang-Yu Rao, Traian Marius Truta, Elisa Bertino, “*Privacy-Preserving Assessment of Social Network Data Trustworthiness*,” CERIAS TR 2012-08, Purdue University, 2012.
- “*Adaptive Disclosure Control for Healthcare Microdata*,” Ph. D. Thesis, advisors: Dr. Farshad Fotouhi, and Dr. Barth-Jones, May 2004.
- “*Analysis and Design Methods in Distributed Systems*,” Master Thesis, advisor Dr. Grigor Moldovan, June 1999.
- “*Reverse Engineering – analysis and representation*,” License Thesis, advisor Dr. Grigor Moldovan, June 1998.

## **PRESENTATIONS, POSTERS, AND INVITED TALKS**

- “*COVID-19 Vaccine Brand Sentiment on Twitter*,” (with Alina Campan), 2nd International Workshop on Open Challenges in Online Social Networks (OASIS 2022), In Conjunction with ACM Conference on Hypertext and Social Media, Barcelona, Spain, 2022.
- “*Discerning the sparks and effects of in-group versus out-group framing: The Know Rivalry Project*,” (with Joe Cobbs and Seth Adjei), Spotlight on Scholarship, Northern Kentucky University, Highland Heights, Kentucky, October 2021.
- “*Collecting Domain-Relevant Tweets: Creation and Application of a New Framework*,” International Workshop on Deviant Activities on Social Media (DEVIANCE) In Conjunction with IEEE International Big Data Conference, Virtual Conference, December 2020.
- “*How to Fight Fake News Spreading in Online Social Networks*,” SUNY Canton National Cybersecurity Awareness Month Virtual Event, Virtual Panel titled “The Hackers are Coming! Winning a Cybersecurity War in an Election Year”, October 2020
- “*Estimating the Size of the Twitter Universe*,” 40<sup>th</sup> International Network for Social Networks Analytics Conference (SUNBELT 2020), Paris, France – moved virtually, July 2020.
- “*Vaccine (Dis)Information on Twitter*,” 40<sup>th</sup> International Network for Social Networks Analytics Conference (SUNBELT 2020), Paris, France – moved virtually, July 2020.
- “*Did We Catch Them All? Testing Twitter's Data Collection Services*,” (with Alina Campan, Joseph Nolan, and Alyssa Appelman), Spotlight on Scholarship, Northern Kentucky University, Highland Heights, Kentucky, October 2019.

- “*The Number of Non-Competitive Matches in 2026 FIFA World Cup*,” ISSAT International Conference on Data Science and Intelligent Systems (DSIS 2019), Las Vegas, Nevada, July 2019.
- “*Is Twitter Streaming API Data Collection useful for Academic Research?*” NKU Computer Science Colloquium, Northern Kentucky University, Highland Heights, Kentucky, April 2019.
- “*Is Data Collection through Twitter Streaming API Useful for Academic Research?*,” International Workshop on Big Social Media Data Management and Analysis (BSMDMA) In Conjunction with IEEE International Big Data Conference, Seattle, Washington, December 2018.
- “*The Era of Fake News: Free Speech, Psychology, and Science*,” (with Jennifer Kinsley, Alina Campan, and Alyssa Appelman), Spotlight on Scholarship, Northern Kentucky University, Highland Heights, Kentucky, October 2018.
- “*Fighting Fake News Spreading in Online Social Networks*,” 4th International Workshop on Privacy and Security of Big Data (PSBD 2017) in conjunction with 2017 IEEE International Conference on Big Data (IEEE BigData 2017), Boston, Massachusetts, December 2017.
- “*Impact of Security Awareness Training on Phishing Click-Through Rates*,” 4th International Workshop on Privacy and Security of Big Data (PSBD 2017) in conjunction with 2017 IEEE International Conference on Big Data (IEEE BigData 2017), Boston, Massachusetts, December 2017.
- “*Tor Traffic Analysis and Detection via Machine Learning Techniques*,” 4th International Workshop on Privacy and Security of Big Data (PSBD 2017) in conjunction with 2017 IEEE International Conference on Big Data (IEEE BigData 2017), Boston, Massachusetts, December 2017.
- “*Academic Tips for International Students*,” International Orientation, Northern Kentucky University, Highland Heights, Kentucky, August 2016.
- “*Approximation Algorithms for D-Hop Dominating Set Problem*,” International Conference on Data Mining (DMIN2016), Las Vegas, Nevada, July 2016.
- “*Do Anonymized Networks Preserve Communities?*,” International Conference on Computers and Their Applications (CATA 2016), Las Vegas, Nevada, April 2016.
- “*Fast Algorithms for Finding Dominating Sets in Networks*,” TRIWIC Lexington, Louisville, and Cincinnati’s Celebration of Women in Computing Conference (TRIWIC 2016), Cincinnati, Ohio, February 2016.
- “*Academic Tips for International Students*,” International Orientation, Northern Kentucky University, Highland Heights, Kentucky, January 2016.
- “*Computing in Romania*,” INFO Lunch, Northern Kentucky University, Highland Heights, Kentucky, November 2015.
- “*Efficient Approximation Algorithms to Determine Minimum Partial Dominating Sets in Social Networks*,” International Workshop on Mining Big Data in Social Networks (MBD-SONET) In Conjunction with IEEE International Big Data Conference, Santa Clara, California, November 2015.
- “*Academic Tips for International Students*,” International Orientation, Northern Kentucky University, Highland Heights, Kentucky, August 2015.
- “*Fast Dominating Sets Algorithms for Social Networks*,” Modern Artificial Intelligence and Cognitive Science Conference (MAICS 2015), Greensboro, North Carolina, April 2015 (*skype presentation*).
- “*Community Detection in Anonymized Social Networks*,” International Workshop on Privacy and Anonymity in the Information Society (PAIS2014), Athens, Greece, March 2014.

- “*Social Networks Analysis using Pajek*,” NKU Center for Integrative Natural Science and Mathematics, Invited Speaker, Northern Kentucky University, Highland Heights, Kentucky, March 2014.
- “*Finding Anomalies in Windows Event Logs using Standard Deviation*,” International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2013), Austin, Texas, October 2013 (recorded presentation).
- “*Overview of Data Privacy*,” Invited Data Science Class Presentation, Computer Science Department, Northern Kentucky University, Highland Heights, Kentucky, October 2013.
- “*Data Privacy Research and Collaboration Visits*,” Sabbatical Presentation, College of Informatics, Northern Kentucky University, Highland Heights, Kentucky, May 2013.
- “*Preservation of Structural Properties in Anonymized Social Networks*,” Graduate Research Seminar, Invited Speaker, University of Cincinnati, Cincinnati, Ohio, October 2012.
- “*Preservation of Structural Properties in Anonymized Social Networks*,” Collaborative Communities for Social Computing Workshop (CCSocialComp 2012), Pittsburg, Pennsylvania, October 2012.
- “*K-Anonymity in Social Networks: A Clustering Approach*,” The 23 Mid-West Artificial Intelligence and Cognitive Science Conference (MAICS2012), Keynote Speaker, University of Cincinnati, Cincinnati, Ohio, April 2012.
- “*K-Anonymity in Social Networks: A Clustering Approach*,” The Center for Education and Research in Information Assurance and Security (CERIAS) Research Seminar, Invited Speaker, Purdue University, West Lafayette, Indiana, April 2012.
- “*Data and Structural K-Anonymity in Social Networks*,” Security and Privacy Graduate Research Group, Invited Speaker, Purdue University, West Lafayette, Indiana, October 2011.
- “*On-the-Fly Generalization Hierarchies for Numerical Attributes Revisited*,” VLDB Workshop on Secure Data Management (SDM2011), Seattle, Washington, September 2011.
- “*Data and Structural K-Anonymity in Social Networks*,” Graduate Research Seminar, Invited Speaker, Wayne State University, Detroit, Michigan, November 2010.
- “*User-Controlled Generalization Boundaries for P-Sensitive K-Anonymity*,” ACM Symposium on Applied Computing (SAC2010), special track on Data Mining, Sierre, Switzerland, March 2010.
- “*Overview of Statistical Disclosure Control and Privacy Preserving Data Mining*,” IMI Security Symposium, Northern Kentucky University, METZ Center, Erlanger, Kentucky, October 2009.
- “*De-identifying Health Data: Measuring and Controlling Disclosure Risk*,” DIMACS Tutorial: Statistical De-identification of Confidential Health Data with Application to the HIPAA Privacy Regulations, DIMACS Center, Rutgers University, New Brunswick, New Jersey, April 2009.
- “*Overview of Statistical Disclosure Control and Privacy Preserving Data Mining*,” DIMACS Tutorial: Statistical De-identification of Confidential Health Data with Application to the HIPAA Privacy Regulations, DIMACS Center, Rutgers University, New Brunswick, New Jersey, April 2009.
- “*Survival Strategies for International Students: Round Table*,” Panelist, International Education Week, Northern Kentucky University, Highland Heights, Kentucky, November 2008.
- “*Privacy in Social Networks*,” CINSAM’s Fifth Friday Research Poster Session, Northern Kentucky University, Highland Heights, Kentucky, September 2008.

- “*A Clustering Approach for Data and Structural Anonymity in Social Networks*,” ACM SIGKDD International Workshop on Privacy, Security, and Trust in KDD (PinKDD2008), Las Vegas, Nevada, August 2008.
- “*Models and Algorithms for Data Privacy*,” Karen Duda Lecture Series Invited Speaker, Youngstown State University, Youngstown, Ohio, April 2008.
- “*Constrained K-Anonymity: Privacy with Generalization Boundaries*,” International Workshop on Practical Preserving Data Mining (P3DM2008), Atlanta, Georgia, April 2008.
- “*Protecting Privacy in Recorded Conversations*,” International Workshop on Privacy and Anonymity in the Information Society (PAIS2008), Nantes, France, March 2008.
- “*New Privacy Protection Models*,” 13th Annual Kentucky EPSCoR Statewide Conference, Lexington Convention Center, Lexington, Kentucky, October 2007.
- “*Generating Microdata with P-Sensitive K-Anonymity Property*,” 4th VLDB Workshop on Secure Data Management (SDM2007), Vienna, Austria, September 2007.
- “*New Privacy Protection Models*,” CINSAM’s Fifth Friday Research Poster Session, Northern Kentucky University, Highland Heights, Kentucky, September 2007.
- “*k-Anonymization Incremental Maintenance and Optimization Techniques*,” ACM Symposium of Applied Computing (SAC2007), Seoul, South Korea, March 2007.
- “*Data Anonymity Models and Algorithms*,” CINSAM’s Fifth Friday Research Poster Session, Northern Kentucky University, Highland Heights, Kentucky, September 2006.
- “*Data Anonymity Models and Algorithms*,” Research Seminar Series, College of Informatics, Northern Kentucky University, Highland Heights, Kentucky, September 2006.
- “*Privacy Protection: p-Sensitive k-Anonymity Property*,” International Workshop of Privacy Data Management (PDM2006), Atlanta, Georgia, April 2006.
- “*Global Disclosure Risk Measures and k-Anonymity Property for Microdata*,” International Conference on Mathematics and Informatics (ICTAMI2005), Albac, Romania, September 2005.
- “*Assessing Global Disclosure Risk Measures in Masked Microdata*,” Workshop on Privacy and Electronic Society (WPES2004), Washington DC, October 2004.
- “*Global Disclosure Risk for Microdata with Continuous Attributes*,” Symposium on Privacy and Identity: The Promise and Perils of a Technological Age (CPILIT2004), Chicago, Illinois, October 2004.
- “*Adaptive Disclosure Control for Healthcare Microdata*,” Ph. D. Thesis Defense, advisors: Dr. Farshad Fotouhi, and Dr. Barth-Jones, Detroit, Michigan, May 2004.
- “*Disclosure Risk Measures for Microdata*,” Graduate Research Seminar, Invited Speaker, Wayne State University, Detroit, Michigan, April 2004.
- “*Privacy and Confidentiality Management for the Microaggregation Disclosure Control Method*,” Workshop on Privacy and Electronic Society (WPES2003), Washington DC, October 2003.
- “*Disclosure Risk Measures for Microdata*,” International Conference on Scientific and Statistical Database Management (SSDBM2003), Cambridge, Massachusetts, June 2003.
- “*Adaptive Disclosure Control for Healthcare Microdata*,” Ph. D. Prospectus Defense, advisor Dr. Farshad Fotouhi, Detroit, Michigan, May 2002.
- “*Analysis and Design Methods in Distributed Systems*,” Master Thesis Defense, advisor Dr. Grigor Moldovan, Cluj-Napoca, Romania, June 1999.
- “*Reverse Engineering – analysis and representation*,” License Thesis Defense, advisor Dr. Grigor Moldovan, Cluj-Napoca, Romania, June 1998.

- “A New Navigator with an Open Architecture” (in collaboration with Cosmin Truta), Presentation to The National Session of Scientific Communications of Students, Iasi, Romania, 1997.

## **CONFERENCES, WORKSHOPS, AND SEMINARS ATTENDED**

- “2<sup>nd</sup> International Workshop on Open Challenges in Online Social Networks (OASIS 2022),” In Conjunction with ACM Conference on Hypertext and Social Media, Barcelona, Spain, 2022.
- “Spotlight on Scholarship,” Northern Kentucky University, Highland Heights, Kentucky, October 2021.
- “International Workshop on Deviant Activities on Social Media (DEVIANCE),” In Conjunction with IEEE International Big Data Conference, Virtual Conference, December 2020.
- “IEEE International Big Data Conference, Virtual Conference,” December 2020.
- “SUNY Canton National Cybersecurity Awareness Month Virtual Event,” Virtual Panel titled “The Hackers are Coming! Winning a Cybersecurity War in an Election Year”, October 2020.
- “40<sup>th</sup> International Network for Social Networks Analytics Conference (SUNBELT 2020),” Paris, France – moved virtually, July 2020.
- “Norse Educators Summit,” NKU, Virtual Event, Highland Heights, Kentucky, August 2020.
- “Summer Online Faculty Institute,” NKU, Virtual Training, Highland Heights, Kentucky, July 2020.
- “Online Faculty Orientation Course,” NKU via Canvas, Highland Heights, Kentucky, May 2020.
- “Spotlight on Scholarship,” Northern Kentucky University, Highland Heights, Kentucky, October 2019.
- “NKU Cybersecurity Symposium,” NKU Student Union, Highland Heights, Kentucky, October 2019.
- “NKU AP Accelerated Online Teaching Workshop,” NKU Student Union, Highland Heights, Kentucky, September 2019.
- “Norse Educators Summit,” NKU Ballroom, Highland Heights, Kentucky, August 2019.
- “ISSAT International Conference on Data Science and Intelligent Systems (DSIS 2019),” Las Vegas, Nevada, August 2019.
- “International Workshop on Big Social Media Data Management and Analysis (BSMDMA)” In Conjunction with IEEE International Big Data Conference, Seattle, Washington, December 2018.
- “IEEE International Big Data Conference,” Seattle, Washington, December 2018.
- “Spotlight on Scholarship,” Northern Kentucky University, Highland Heights, Kentucky, October 2018.
- “TRIWIC Lexington, Louisville, and Cincinnati’s Celebration of Women in Computing Conference (TRIWIC 2018),” Cincinnati, Ohio, February 2018.
- “EAB Workshop: Competing on Student Outcomes to Attract Today’s Career Changer,” Highland Heights, Kentucky, January 2018.
- “International Workshop on Privacy and Security of Big Data (PSBD 2017),” Boston, Massachusetts, December 2017.

- *"IEEE International Conference on Big Data (IEEE BigData 2017),"* Boston, Massachusetts, December 2017.
- *"Declining International Students: Enrollment, Retention & Revenue Impact,"* Highland Heights, Kentucky, August 2017.
- *"Meet, Greet, and Grab an Idea,"* NKU Student Union, Highland Heights, Kentucky, August 2017.
- *"EAB Workshop: Marketing Across the Program Lifecycle,"* Highland Heights, Kentucky, January 2017.
- *"Title IX Informational Session,"* Highland Heights, Kentucky, October 2016.
- *"Meet, Greet, and Grab an Idea,"* NKU Student Union, Highland Heights, Kentucky, August 2016.
- *"International Conference on Data Mining (DMIN2016),"* Las Vegas, Nevada, July 2016.
- *"International Conference on Computers and Their Applications (CATA 2016),"* Las Vegas, Nevada, April 2016.
- *"Understanding the International Student Experience,"* Highland Heights, Kentucky, February 2016.
- *"TRIWIC Lexington, Louisville, and Cincinnati's Celebration of Women in Computing Conference (TRIWIC 2016),"* Cincinnati, Ohio, February 2016.
- *"IEEE International Big Data Conference,"* Santa Clara, California, November 2015.
- *"International Workshop on Mining Big Data in Social Networks (MBD-SONET),"* In Conjunction with IEEE International Big Data Conference, Santa Clara, California, November 2015.
- *"Modern Artificial Intelligence and Cognitive Science Conference (MAICS 2015),"* Greensboro, North Carolina, April 2015. (online)
- *"International Workshop on Privacy and Anonymity in the Information Society (PAIS2015),"* Brussels, Belgium, March 2015.
- *"Extending Database Technology Conference (EDBT2015),"* Brussels, Belgium, March 2015.
- *"International Workshop on Privacy and Anonymity in the Information Society (PAIS2014),"* Athens, Greece, March 2014.
- *"Extending Database Technology Conference (EDBT2013),"* Athens, Greece, March 2014.
- *"Young Alumni Roundtable,"* College of Informatics, Northern Kentucky University, Highland Heights, Kentucky, February 2014.
- *"TRIWIC Lexington, Louisville, and Cincinnati's Celebration of Women in Computing Conference (TRIWIC 2014),"* Lake Cumberland State Park, Kentucky, February 2014.
- *"CAI Security Symposium,"* Center of Applied Informatics, NKU METS Center, Erlanger, Kentucky, October 2013.
- *"Meet, Greet, and Grab a Seat: Sharing Best Practices in Teaching,"* NKU METS Center, Erlanger, February, August 2013.
- *"Extending Database Technology Conference (EDBT2013),"* Genoa, Italy, March 2013.
- *"International Workshop on Privacy and Anonymity in the Information Society (PAIS2013),"* Genoa, Italy, March 2013.
- *"International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2012),"* Pittsburg, Pennsylvania, October 2012.
- *"Collaborative Communities for Social Computing Workshop (CCSocialComp 2012),"* Pittsburg, Pennsylvania, October 2012.

- *"Meet, Greet, and Grab a Seat: Sharing Best Practices in Teaching,"* NKU METS Center, Erlanger, February, August 2012.
- *"Mid-West Artificial Intelligence and Cognitive Science Conference (MAICS2012),"* University of Cincinnati, Cincinnati, Ohio, April 2012.
- *"The Center for Education and Research in Information Assurance and Security (CERIAS) Research Seminar,"* Purdue University, West Lafayette, Indiana, 2011-2012.
- *"TRIWIC Lexington, Louisville, and Cincinnati's Celebration of Women in Computing Conference (TRIWIC 2011),"* General Butler State Park, Kentucky, November 2011.
- *"VLDB Workshop on Secure Data Management (SDM2011),"* Seattle, Washington, September 2011.
- *"Meet, Greet, and Grab a Seat: Sharing Best Practices in Teaching,"* NKU METS Center, Erlanger, KY, August 2011.
- *"Extending Database Technology Conference (EDBT2011),"* Uppsala, Sweden, March 2011.
- *"International Workshop on Privacy and Anonymity in the Information Society (PAIS2011),"* Uppsala, Sweden, March 2011.
- *"ACM Symposium of Applied Computing (SAC2010),"* Sierre, Switzerland, March 2010.
- *"Extending Database Technology Conference (EDBT2010),"* Lausanne, Switzerland, March 2010.
- *"International Workshop on Privacy and Anonymity in the Information Society (PAIS2010),"* Lausanne, Switzerland, March 2010.
- *"Greater Cincinnati Oracle Users Group" Meeting,* Blue Ash, Ohio, January 2010.
- *"ACM Special Interest Group for Information Technology Education (SIGITE2009),"* Fairfax, VA, October 2009.
- *"IMI Security Symposium,"* Infrastructure Management Institute, NKU METS Center, Erlanger, Kentucky, October 2009.
- *"International Conference on Data Mining (DMIN2009),"* In Conjunction with WORLDCOMP'09, Las Vegas, Nevada, July 2009.
- *"IMI Mobile Innovations Conference,"* Infrastructure Management Institute, NKU METS Center, Highland Heights, Kentucky, June 2009.
- *"DIMACS Tutorial: Statistical De-identification of Confidential Health Data with Application to the HIPAA Privacy Regulations,"* DIMACS Center, Rutgers University, New Brunswick, New Jersey, April 2009.
- *"Extending Database Technology Conference (EDBT2009),"* Saint Petersburg, Russia, March 2009.
- *"International Workshop on Privacy and Anonymity in the Information Society (PAIS2009),"* Saint Petersburg, Russia, March 2009.
- *"The 2nd International Workshop on Privacy, Security, and Trust in KDD (PinKDD2008),"* Las Vegas, Nevada, August 2008.
- *"The 14<sup>th</sup> ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD2008),"* Las Vegas, Nevada, August 2008.
- *"A Three-day Grant Proposal Writing Workshop,"* Northern Kentucky University Research Foundation, Highland Heights, Kentucky, May 2008.
- *"IT Workforce: Trends and Implications Seminar,"* Infrastructure Management Institute, Northern Kentucky University, Highland Heights, Kentucky, May 2008.
- *"Greater Cincinnati Oracle Users Group" Meeting,* Blue Ash, Ohio, May 2008.
- *"International Workshop on Practical Preserving Data Mining (P3DM2008),"* Atlanta, Georgia, April 2008.

- *“International Workshop on Privacy and Anonymity in the Information Society (PAIS2008),”* Nantes, France, March 2008.
- *“IMI Security Symposium,”* Infrastructure Management Institute, NKU METS Center, Erlanger, Kentucky, October 2007.
- *“Building Team Science,”* 13th Annual Kentucky EPSCoR Statewide Conference, Lexington Convention Center, Lexington, Kentucky, October 2007.
- *“VLDB Workshop on Secure Data Management (SDM2007),”* Vienna, Austria, September 2007.
- *“ACM Symposium of Applied Computing (SAC2007),”* Seoul, South Korea, March 2007.
- *Workshop on “Summer Fellowship, Project Grant and Sabbatical Applicants,”* Professional & Organizational Development Center, Northern Kentucky University, Highland Heights, August 2006.
- *“International Conference on Data Mining (DMIN2006),”* In Conjunction with WORLDCOMP’06, Las Vegas, Nevada, June 2006.
- *“International Workshop of Privacy Data Management (PDM2006),”* In Conjunction with 22<sup>th</sup> International Conference of Data Engineering (ICDE), Atlanta, Georgia, April 2006.
- *“International Conference on Mathematics and Informatics (ICTAMI2005),”* Albac, Romania, September 2005.
- *Workshop on “Scholarship on Engagement Series: Engaged Teaching,”* Professional & Organizational Development Center, Northern Kentucky University, Highland Heights, August 2005.
- *Workshop on “Privacy and Electronic Society,”* In Conjunction with 11<sup>th</sup> ACM Conference on Computer and Communication Security, Washington DC, October 2004.
- *Symposium on “Privacy and Identity: The Promise and Perils of a Technological Age (CPILIT2004),”* Chicago, October 2004.
- *Workshop on “First and Second Year Faculty Proposal Preparation,”* Office of Research, Grants and Contracts, Northern Kentucky University, Highland Heights, October 2004.
- *RP&T Workshop “Road Signs to Tenure,”* Faculty Center for Teaching, Learning and Technology, Northern Kentucky University, Highland Heights, September 2004.
- *Research grant writing seminar: “Getting Started as a Successful Grant Writer and Academician,”* Wayne State University, Detroit, January 2004.
- *Workshop on “Privacy and Electronic Society,”* In Conjunction with 10<sup>th</sup> ACM Conference on Computer and Communication Security, Washington DC, October 2003.
- *Workshop on “Digital Libraries for Cultural Preservation,”* Wayne State University, Detroit, October 2003.
- *“International Conference on Scientific and Statistical Database Management (SSDBM2003),”* Cambridge, Ma, June 2003.
- *Workshop on “HIPAA Privacy Standards, Statistical Risk Disclosure, And De-identification Methods,”* Center for Healthcare Effectiveness Research, Wayne State University presented by Dr. Daniel Barth-Jones, Detroit, October 2001.

## **AFFILIATIONS**

- Association for Computing Machinery (ACM)
- United States Tennis Association (USTA)

## **SERVICE**

- Associate Chair, Computer Science Department, Northern Kentucky University, Summer 2019 – **present**.

- Chair of Computer Science Policy Committee, Department of Computer Science, Northern Kentucky University, Fall 2019 – **present**.
- Member of BSCIT Program Committee, Computer Science Department, Northern Kentucky University, Fall 2021 – **present**.
- Member of Computer Science Faculty Search Committee, Department of Computer Science, Northern Kentucky University, Fall 2021 – Spring 2022.
- Member of Reappointment, Promotion, and Tenure Committee, Department of Computer Science, Northern Kentucky University, Fall 2021.
- Member of Provost Transition Team, Northern Kentucky University, Fall 2021.
- Chair of Computer Science RPT Policy Committee, Department of Computer Science, Northern Kentucky University, Fall 2020 – Spring 2021.
- Member of Provost Search Committee, Northern Kentucky University, Fall 2020 – Spring 2021.
- Member of MS Cybersecurity New Program Committee, Computer Science Department, Northern Kentucky University, Spring 2020 – Spring 2021.
- Member of CINSAM Grant Review Panel, Northern Kentucky University, December 2020.
- Member of Reappointment, Promotion, and Tenure Committee, Department of Computer Science, Northern Kentucky University, Fall 2020.
- Member of MSCIT Program Committee, Computer Science Department, Northern Kentucky University, Fall 2019 – Spring 2020.
- Member of MSCS Program Committee, Computer Science Department, Northern Kentucky University, Fall 2019 – Spring 2020.
- Member of Cybersecurity Faculty Search Committee, Department of Computer Science, Northern Kentucky University, Fall 2019 – Spring 2020.
- Member of Reappointment, Promotion, and Tenure Committee, Department of Computer Science, Northern Kentucky University, Fall 2018.
- Chair of Computer Science Faculty Core Search Committee, Department of Computer Science, Northern Kentucky University, Fall 2018.
- Member of COI Revenue and Budget Committee, College of Informatics, Northern Kentucky University, Fall 2016 – Fall 2018.
- Member of Graduate Council Committee, Northern Kentucky University, Fall 2009 – Summer 2011 and Fall 2012 - Fall 2018.
- Program Director, Master of Science in Computer Information Technology (MSCIT), Northern Kentucky University, Spring 2009 – Summer 2011 and Fall 2012 - Fall 2018.
- Chair of MSCIT Admission Committee, Computer Science Department, Northern Kentucky University, Spring 2009 – Summer 2011 and Fall 2012 - Fall 2018.
- Member of BSCIT Curriculum Committee, Computer Science Department, Northern Kentucky University, Fall 2017 – Fall 2018.
- Member of COI Budget Director Search Committee, Northern Kentucky University, Summer 2018.
- Member of COI Wellness Committee, College of Informatics, Northern Kentucky University, Fall 2016 – Spring 2018.
- Chair of Peer Evaluation of Teaching Committee, Computer Science Department, Northern Kentucky University, Spring 2018.
- Member of Graduate Council Policy Committee, Northern Kentucky University, Fall 2017 - Spring 2018.
- Member of Computer Science Faculty Search Committee, Department of Computer Science, Northern Kentucky University, Fall 2017 – Spring 2018.

- Chair of MSCIT Curriculum Committee, Computer Science Department, Northern Kentucky University, Fall 2017 – Spring 2018.
- Member of Reappointment, Promotion, and Tenure Committee, Department of Computer Science, Northern Kentucky University, Fall 2017.
- Chair of Promotion Committee, Department of Computer Science, Northern Kentucky University, Fall 2017.
- Member of Faculty Awards Committee, Northern Kentucky University, Spring 2017.
- Chair of Reappointment, Promotion, and Tenure Committee, Department of Computer Science, Northern Kentucky University, Fall 2016.
- Member of Promotion Committee, Department of Computer Science, Northern Kentucky University, Fall 2016.
- Member of Computer Science Faculty Search Committee, Department of Computer Science, Northern Kentucky University, Fall 2016 – Spring 2017.
- Member of Computer Science MSCS Working Group, Department of Computer Science, Northern Kentucky University, Fall 2016 – Spring 2017.
- Member of Office of Education Abroad Advisory Committee, Northern Kentucky University, Spring 2011 and Fall 2012 – Spring 2016.
- Member of Faculty Awards Committee, Northern Kentucky University, Spring 2016.
- Member of Faculty Senate Benefits Committee, Northern Kentucky University, Fall 2014 – Spring 2016.
- Member of Graduate Council Curriculum Committee, Northern Kentucky University, Fall 2014 - Spring 2015.
- Member of Reappointment, Promotion, and Tenure Committee, Department of Computer Science, Northern Kentucky University, Fall 2014 – Spring 2015.
- Member of Faculty Awards Committee, Northern Kentucky University, Spring 2015.
- Member of Cybersecurity and Computer Information Technology Faculty Search Committee, Computer Science Department, Northern Kentucky University, Fall 2014 – Spring 2015.
- Member of Computer Science Academic Coordinator Search Committee, Northern Kentucky University, Summer 2014.
- Member of International Enrollment Committee, Northern Kentucky University, Spring 2014.
- Chair of Cybersecurity Faculty Search Committee, Computer Science Department, Northern Kentucky University, Fall 2013 – Spring 2014.
- Chair of Post Tenure Committee, Computer Science Department, Northern Kentucky University, Fall 2013 – Spring 2014.
- Member of MS in Computer Science Working Group, Computer Science Department, Northern Kentucky University, Fall 2013 – Spring 2014.
- Member of Professionalization Events Committee, College of Informatics, Northern Kentucky University, Fall 2013 – Spring 2014.
- Member of Assessment Committee, Computer Science Department, Northern Kentucky University, Fall 2013 – Spring 2014.
- Member of Data Analytics Committee, College of Informatics, Northern Kentucky University, Fall 2013.
- Chair of CS Chair Search Committee, College of Informatics, Northern Kentucky University, Fall 2012 – Spring 2013.
- Member of Classroom Scheduling and Utilization Policy Committee, Northern Kentucky University, Fall 2012 - Spring 2013.

- Member of Computer Science Visiting Lecturer Search Committee, Northern Kentucky University, Spring 2011.
- Member of Faculty Excellence Awards Search Committee, Northern Kentucky University, Spring 2011.
- Member of College of Informatics Dean Search Committee, Northern Kentucky University, Fall 2010 – Spring 2011.
- Member of Ted and Maryann Weiss Endowed International Student Scholarship Committee, Northern Kentucky University, Fall 2010.
- Member of Computer Science RP&T Committee, Northern Kentucky University, Fall 2010.
- Member of Computer Science Academic Assistant Search Committee, Northern Kentucky University, Fall 2010.
- Member of Computer Science Bachelor of Science in Computer Information Technology Committee, Northern Kentucky University, Spring 2010.
- Coach and judge for the ACM Mid-Central USA Programming Contest, Lexington, KY, 2004, 2005, 2006, 2007, and 2010.
- Member of Computer Science Lecturer Search Committee, Northern Kentucky University, Spring 2009.
- Member of College of Informatics Associate Dean Search Committee, Northern Kentucky University, Fall 2008 - Spring 2009.
- Member of Computer Science Chair Search Committee, Northern Kentucky University, Fall 2008.
- Member of the NKU Zeta Phi chapter of Phi Beta Delta, the Honor Society for International Scholars, Fall 2008 – Summer 2011.
- Chair of Master of Science in Computer Information Technology Committee, College of Informatics, Northern Kentucky University, Spring 2008 – Spring 2009.
- Member of College of Informatics Associate Dean Search Committee, Northern Kentucky University, Fall 2007 - Spring 2008.
- Chair of Scholarship Committee, Computer Science Department, Northern Kentucky University, Fall 2007 – Spring 2009.
- Member of New Master Exploratory Program Committee, Computer Science Department, Northern Kentucky University, Fall 2007 – Spring 2008.
- Member of MS in Computer Science Curriculum Subcommittee, Northern Kentucky University, Fall 2007.
- Member of Bioinformatics Faculty Search Committee, Northern Kentucky University, Fall 2006 - Spring 2007.
- Member of NKU Students Awards Committee, Northern Kentucky University, Fall 2006 - Summer 2011.
- Member of Director of Online Technology for the College of Informatics Search Committee, Northern Kentucky University, Fall 2006.
- Member of College of Informatics Health Informatics Committee, Northern Kentucky University, Fall 2006.
- Course Coordinator for INF 120 (Elementary Programming), Northern Kentucky University, Fall 2006.
- Member of College of Informatics Dean Search Committee, Northern Kentucky University, Spring 2006.
- Library Contact Person for Computer Science Department, Northern Kentucky University, Fall 2005 – Fall 2008.

- Member of “College of Informatics Curriculum Optimization Discussion Group,” Northern Kentucky University, Fall 2005, and Spring 2006.
- Member of the “Task Force” committee charged with making recommendations regarding the creation of the new college at Northern Kentucky University, Spring 2005.
- Member of Computer Science Faculty Search Committee, Northern Kentucky University, Spring 2005.
- Student representative in Chair Search Committee for Department of Computer Science, Wayne State University, Fall 2003.
- Student representative in Faculty Search Committee for Department of Computer Science, Wayne State University, Winter 2002.

## **OTHER PROFESSIONAL ACTIVITIES**

- Editorial Board Member for *Transactions on Data Privacy Journal*, Available online at: <http://www.tdp.cat>, Spring 2013 – **present**.
- Program Committee Member and Reviewer for *The 8th IEEE Intl. Conf. on Big Data Computing Services and Machine Learning Applications (BDS 2022)*, San Francisco, California, USA, 2022.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2022)*, Vienna, Austria, 2022.
- Program Committee Member and Reviewer for *The ACM Southeast (ACMSE 2021) Conference*, Jacksonville State University (JSU), Jacksonville, Alabama, 2021
- Program Committee Member and Reviewer for *The 18th IEEE International Conference on Advanced and Trusted Computing (ATC 2021)*, Atlanta, USA, 2021.
- Program Committee Member and Reviewer for *The 7th IEEE Intl. Conf. on Big Data Computing Services and Machine Learning Applications (BDS 2021)*, Virtual only, 2020.
- Program Committee Member and Reviewer for *The 15th IEEE Intl. Conf. on Big Data Science and Engineering (BigDataSE 2021)*, Shenyang, China, 2021.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2021)*, Virtual, 2021.
- Program Committee Member and Reviewer for *The 4<sup>th</sup> International Conference on Data Science and Computational Intelligence (DSCI 2021)*, London, United Kingdom, 2021.
- Program Committee Member and Reviewer for *The International Conference on Privacy, Security and Trust (PST 2021)*, Auckland, New Zealand, 2021.
- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2021)*, Shenyang, China, 2021.
- Program Committee Member and Reviewer for *The 17th IEEE International Conference on Advanced and Trusted Computing (ATC 2020)*, Melbourne, Australia, 2020.
- Program Committee Member and Reviewer for *The 6th IEEE Intl. Conf. on Big Data Computing Services and Machine Learning Applications (BDS 2020)*, Oxford, United Kingdom, 2020.
- Program Committee Member and Reviewer for *The 18 IEEE International Conference on Dependable, Autonomic, and Secure Computing (DASC 2020)*, Calgary, Canada, 2020.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2020)*, Bratislava, Slovakia, 2020.
- Program Committee Member and Reviewer for *The International Conference on Urban Intelligence and Applications 2020 (ICUIA 2020)*, Taiyuan, China, 2020.

- Program Committee Member and Reviewer for *The International Conference on Privacy, Security and Trust (PST 2020)*, Hangzhou, China, 2020.
- Program Committee Member and Reviewer for *The 13th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS 2020)*, Nanjing, China, 2020.
- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2020)*, Guangzhou, China, 2020.
- Program Committee Member and Reviewer for *The 16th IEEE International Conference on Advanced and Trusted Computing (ATC 2019)*, Leicester, United Kingdom, 2019.
- Program Committee Member and Reviewer for *The IEEE BigData Service*, San Francisco, California, USA, 2019.
- Program Committee Member and Reviewer for *The 17 IEEE International Conference on Dependable, Autonomic, and Secure Computing (DASC 2019)*, Fukuoka, Japan, 2019.
- Program Committee Member and Reviewer for *The 5th International Symposium on Dependability in Sensor, Cloud, and Big Data Systems and Applications (DependSys 2019)*, Guangzhou, China, 2019.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2019)*, Linz, Austria, 2019.
- Program Committee Member and Reviewer for *The International Conference on Urban Intelligence and Applications 2019 (ICUIA 2019)*, Wuhan, China, 2019.
- Program Committee Member and Reviewer for *The 18th IEEE International Conference on Ubiquitous Computing and Communications 2019 (IUCC 2019)*, Shenyang, China, 2019.
- Program Committee Member and Reviewer for *The International Conference on Privacy, Security and Trust (PST 2019)*, New Brunswick, Fredericton, Canada, 2019.
- Program Committee Member and Reviewer for *The 15th IEEE International Conference on Advanced and Trusted Computing (ATC 2018)*, Guangzhou, China, 2018.
- Program Committee Member and Reviewer for *The IEEE BigData Service*, Bamberg, Germany, 2018.
- Program Committee Member and Reviewer for *The 16 IEEE International Conference on Dependable, Autonomic, and Secure Computing (DASC 2018)*, Athens, Greece, 2018.
- Program Committee Member and Reviewer for *The 4th International Symposium on Dependability in Sensor, Cloud, and Big Data Systems and Applications (DependSys 2018)*, Melbourne, Australia, 2018.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2018)*, Regensburg, Germany, 2018.
- Program Committee Member and Reviewer for *The International Conference on Privacy, Security and Trust (PST 2018)*, Belfast, UK, 2018.
- Program Committee Member and Reviewer for *The 11th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS 2018)*, Melbourne, Australia, 2018.
- NSF Panelist, March 2017.
- Session Chair for *The International Workshop on Privacy and Security of Big Data (PSBD 2017) in Conjunction with 2017 IEEE International Conference on Big Data (IEEE BigData 2017)*, Boston, Massachusetts, December 2017.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2017 (PAIS 2017) in Conjunction with IEEE ICDM Conference*, New Orleans, LA, USA, 2017.

- Program Committee Member and Reviewer for *The 14th IEEE International Conference on Advanced and Trusted Computing (ATC 2017)*, San Francisco, CA, USA, 2017.
- Program Committee Member and Reviewer for *The IEEE International Conference on Cloud and Big Data Computing (Privacy and Security for Cloud and Big Data Track) (CDBCom 2017)*, San Francisco, CA, USA, 2017.
- Program Committee Member and Reviewer for *The 15 IEEE International Conference on Dependable, Autonomic, and Secure Computing (DASC 2017)*, Orlando, FL, USA, 2017.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2017)*, Lyon, France, 2017.
- Program Committee Member and Reviewer for *The 28<sup>th</sup> Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2017)*, Fort Wayne IN, USA, 2017.
- Program Committee Member and Reviewer for *The 9<sup>th</sup> International Conference on Management of Digital EcoSystems (MEDES 2017)*, Bangkok, Thailand, 2017.
- Program Committee Member and Reviewer for *The 10<sup>th</sup> International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS 2017)*, Guangzhou, China, 2017.
- NSF Panelist, March 2016.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2016 (PAIS 2016) in Conjunction with ICDT/EDBT Joint Conference*, Bordeaux, France, 2016.
- Program Committee Member and Reviewer for *The 13th IEEE International Conference on Advanced and Trusted Computing (ATC 2016)*, Toulouse, France, 2016.
- Program Committee Member and Reviewer for *The IEEE International Conference on Cloud and Big Data Computing (Privacy and Security for Cloud and Big Data Track) (CDBCom 2016)*, Toulouse, France, 2016.
- Program Committee Member and Reviewer for *The 14th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2016)*, Auckland, New Zealand, 2016.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2016)*, Trento, Italy, 2016.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2016)*, Porto, Portugal, 2016.
- Program Committee Member and Reviewer for *The 11th International Workshop on Data Privacy Management (DPM 2016) in conjunction with the 21st European Symposium on Research in Computer Security (ESORICS 2016)*, Heraklion, Crete, Greece, 2016.
- Program Committee Member and Reviewer for *The 27<sup>th</sup> Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2016)*, Dayton, OH, USA, 2016.
- Program Committee Member and Reviewer for *The 8th ACM International Conference on Management of Digital EcoSystems (MEDES)*, Biarritz, France, 2016.
- Program Committee Member and Reviewer for *The Workshop on Privacy in Collaborative & Social Computing (PiCSoc 2016) be co-located with the 2nd IEEE International Conference on Collaboration and Internet Computing (CIC 2016)*, Pittsburg, PA, USA, 2016.
- Program Committee Member and Reviewer for *The 9th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS2016)*, Zhangjiajie, China, USA, 2016.
- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2016)*, Tianjin, China, 2016.

- NSF Panelist, May 2015.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2015 (PAIS 2015) in Conjunction with ICDT/EDBT Joint Conference*, Brussels, Belgium, 2015.
- Program Committee Member and Reviewer for *The 5<sup>th</sup> International Conference on Computer Science and Its Applications (CIIA 2015)*, Saida University, Algeria, 2015.
- Program Committee Member and Reviewer for *The IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2015)*, Liverpool, UK, 2015.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2015)*, Fairfax, VA, USA, 2015.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2015)*, Valencia, Spain, 2015.
- Program Committee Member and Reviewer for *The Data Privacy Management Workshop (DPM 2015)*, Vienna, Austria, 2015.
- Program Committee Member and Reviewer for *The 26<sup>th</sup> Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2015)*, Greensboro, NC, USA, 2015.
- Program Committee Member and Reviewer for *The ACM Conference on Management of Computational and Collective Intelligence in Digital EcoSystems (MEDES 2015)*, Caraguatatuba, Sao Paulo, Brazil, 2015.
- Program Committee Member and Reviewer for *The 2nd International Workshop on Privacy and Security of Big Data (PSBD 2015)*, Santa Clara, California, 2015.
- Program Committee Member and Reviewer for *The International Conference on Privacy, Security and Trust (PST2015)*, Izmir, Turkey, 2015.
- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2015)*, Helsinki, Finland, 2015.
- NSF Panelist, May 2014.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2014 (PAIS 2014) in Conjunction with ICDT/EDBT Joint Conference*, Athens, Greece, 2014.
- Program Committee Member and Reviewer for *18<sup>th</sup> East-European Conference on Advances in Databases and Information Systems (ADBIS 2014)*, Ohrid, F.Y.R. of Macedonia, 2014.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2014)*, Vienna, Austria, 2014.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2014)*, Munich, Germany, 2014.
- Program Committee Member and Reviewer for *The ACM Conference on Management of Computational and Collective Intelligence in Digital EcoSystems (MEDES 2014)*, Buraidah, Al Qassim, Saudi Arabia, 2014.
- Program Committee Member and Reviewer for *The International Conference on Network and System Security (NSS 2014)*, Xi'an, China, 2014.
- Program Committee Member and Reviewer for *International Conference on Progress in Informatics and Computing (PIC 2014)*, Shanghai, China, 2014.
- Program Committee Member and Reviewer for *International Workshop on Privacy and Security of Big Data (PSBD 2014)*, Shanghai, China, 2014.
- Program Committee Member and Reviewer for *International Workshop on Security and Privacy Preserving in e-Societies (SeceS2014)*, Buraidah Al Qassim, Saudi Arabia, 2014.

- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2014)*, Beijing, China, 2014.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2013 (PAIS 2013) in Conjunction with ICDT/EDBT Joint Conference*, Genoa, Italy, 2013.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2013)*, Rutgers University, Newark, New Jersey, 2013.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2013)*, Prague, Czech Republic, 2013.
- Program Committee Member and Reviewer for *The 8th DPM International Workshop on Data Privacy Management (DPM 2013)*, Egham, UK, 2013.
- Program Committee Member and Reviewer for *The 24<sup>rd</sup> Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2013)*, New Albany, IN, 2013.
- Program Committee Member and Reviewer for *The International Conference on Network and System Security (NSS 2013)*, Madrid, Spain, 2013.
- Program Committee Member and Reviewer for *The Annual Conference on Privacy, Security, and Trust (PST 2013)*, Tarragona, Spain, 2013.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2012 (PAIS 2012) in Conjunction with ICDT/EDBT Joint Conference*, Berlin, Germany, 2012.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2012)*, Paris, France, 2012.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2012)*, Vienna, Austria, 2012.
- Program Committee Member and Reviewer for *The 23<sup>rd</sup> Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2012)*, Cincinnati, OH, 2012.
- Program Committee Member and Reviewer for *The 10<sup>th</sup> Annual Conference on Privacy, Security, and Trust (PST 2012)*, Paris, France, 2012.
- Program Committee Member and Reviewer for *The 6<sup>th</sup> International Conference on Network and System Security (NSS 2012)*, Wu Yi Shan, Fujian, China, 2012.
- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2012)*, Liverpool, England, 2012.
- NSF Panelist, April 2011.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2011 (PAIS 2011) in Conjunction with ICDT/EDBT Joint Conference*, Uppsala, Sweden, 2011.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2011)*, Richmond, Virginia, USA, 2011.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2011)*, Toulouse, France, 2011.
- Program Committee Member and Reviewer for *The International Conference on Data Mining (DMIN 2011)*, Las Vegas, NV, 2011.
- Program Committee Member and Reviewer for *The 22<sup>nd</sup> Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2011)*, Cincinnati, OH, 2011.

- Program Committee Member and Reviewer for *The 5<sup>th</sup> International Conference on Network and System Security (NSS 2011)*, Milan, Italy, 2011.
- Program Committee Member and Reviewer for *The IEEE International Workshop on Privacy Aspects of Data Mining (PADM 2011) in conjunction with International Conference on Data Mining (ICDM 2011)*, Vancouver, Canada, 2011.
- Program Committee Member and Reviewer for *The 9<sup>th</sup> Annual Conference on Privacy, Security, and Trust (PST 2011)*, Montreal, Canada, 2011.
- Program Committee Member and Reviewer for *The International Workshop on Security and Privacy Preserving in e-Societies (SeceS 2011)*, Baabda, Lebanon, 2011.
- Program Committee Member and Reviewer for *The IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2011)*, Changsha, China, 2011.
- Program Committee Member and Reviewer for *The Workshop on Data Mining with Graphs and Matrices (WDGM 2011) in conjunction with International Conference on Database and Expert Systems Applications (DEXA 2011)*, Toulouse, France, 2011.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2010 (PAIS 2010) in Conjunction with ICIT/EDBT Joint Conference*, Lausanne, Switzerland, 2010.
- Program Committee Member and Reviewer for *The IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec 2010)*, Rome, Italy, 2010.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2010)*, Bilbao, Spain, 2010.
- Program Committee Member and Reviewer for *The International Conference on Data Mining (DMIN 2010)*, Las Vegas, NV, 2010.
- Program Committee Member and Reviewer for *The 2nd International Symposium on Data, Privacy, and E-Commerce (ISDPE 2010)*, Buffalo, New York, 2010.
- Program Committee Member and Reviewer for *The 8<sup>th</sup> Annual Conference on Privacy, Security, and Trust (PST 2010)*, Ottawa, Canada, 2010.
- Program Committee Member and Reviewer for *The Privacy on the Web Track at Symposium of Applied Computing (SAC 2010)*, Sierre, Switzerland, 2010.
- Program Committee Member and Reviewer for *The IEEE/IFIP International Symposium on Trust, Security and Privacy for Emerging Applications (TSP 2010)*, Bradford, United Kingdom, 2010.
- Program Committee Member and Reviewer for *The Workshop on Data Mining with Graphs and Matrices (WDGM 2010) in conjunction with International Conference on Data Engineering and Management (ICDEM 2010)*, Tiruchirappalli, India, 2010.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2009 (PAIS 2009) in Conjunction with ICIT/EDBT Joint Conference*, Saint Petersburg, Russia, 2009.
- Tutorial Co-Organizer for *Statistical De-identification of Confidential Health Data with Application to the HIPAA Privacy Regulations Tutorial*, Center for Discrete Mathematics & Theoretical Computer Science (DIMACS), Rutgers University, Piscataway, New Jersey, 2009.
- Program Committee Member and Reviewer for *The IEEE 23rd International Conference on Advanced Information Networking and Applications (AINA 2009)*, Bradford, United Kingdom, 2009.
- Program Committee Member and Reviewer for *The International Conference on Database and Expert Systems Applications (DEXA 2009)*, Linz, Austria, 2009.

- Program Committee Member and Reviewer for *The International Conference on Data Mining (DMIN 2009)*, Las Vegas, NV, 2009.
- Program Committee Member and Reviewer for *The IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2009)*, Vancouver, Canada, 2009.
- Program Committee Member and Reviewer for *The 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2009)*, Bangkok, Thailand, 2009.
- Program Committee Member and Reviewer for *The IEEE/IFIP International Symposium on Trust, Security and Privacy for Pervasive Applications (TSP 2009)*, Macao SAR, China, 2009.
- Workshop Co-Chair for *The International Workshop on Privacy and Anonymity in the Information Society 2008 (PAIS 2008) in Conjunction with Extending Database Technology Conference*, Nantes, France, 2008.
- Program Committee Member and Reviewer for *The International Conference on Data Mining (DMIN 2008)*, Las Vegas, NV, 2008.
- Program Committee Member and Reviewer for *The IEEE Workshop on Data Mining in Medicine 2007 (DMMed 2007) in Conjunction with IEEE International Conference on Data Mining (ICDM 2007)*, Omaha, NE, 2007.
- Program Committee Member and Reviewer for *The IEEE/IFIP International Symposium on Trust, Security and Privacy for Pervasive Applications (TSP 2008)*, Shanghai, China, 2008.
- Program Committee Member and Reviewer for *The International Conference on Data Mining (DMIN 2007)*, Las Vegas, NV, 2007.
- Reviewer for *The Journal of Computer Security*, 2021.
- Reviewer for *The VLDB Journal*, 2021.
- Reviewer for *The Knowledge and Information Systems (KAIS) Journal*, 2020.
- Reviewer for *Understanding Databases: Concepts and Practice Book*, 2018.
- Reviewer for *The Transactions on Data Privacy Journal*, 2018.
- Reviewer for *The International Journal of Information Security Journal*, 2018.
- Reviewer for *The Information Systems Journal*, 2018.
- Reviewer for *The IEEE Transactions on Transactions on Information Forensics and Security Journal*, 2018.
- Reviewer for *The Annals of Telecommunications Journal*, 2017.
- Reviewer for *The International Journal of Information Security and Privacy (IJISP)*, 2017.
- Reviewer for *The Journal of AI and Data Mining*, 2017.
- Reviewer for *The International Journal of Information Security*, 2017.
- Reviewer for *The IEEE Transactions on Transactions on Information Forensics and Security Journal*, 2017.
- Reviewer for *The IEEE Transactions on Dependable and Secure Computing Journal*, 2016, 2017.
- Reviewer for *The 15th IEEE International Conference on Machine Learning and Applications (IEEE ICMLA'16)*, 2016.
- Reviewer for *The IEEE Transactions on Transactions on Parallel and Distributed Systems Journal*, 2016.
- Reviewer for *The Annals of Telecommunications Journal*, 2016.
- Reviewer for *The Information Security Journal*, 2015, 2016.
- Reviewer for *The IEEE Transactions on Emerging Topics in Computing*, 2015.

- Reviewer for *Medical Data Privacy Handbook*, 2014.
- Reviewer for *Systems Science and Systems Engineering Journal*, 2014.
- Reviewer for *TRIWIC Lexington, Louisville, and Cincinnati's Celebration of Women in Computing Conference (TRIWIC 2014)*, Poster Competition, 2014.
- Reviewer for *The MC Medical Informatics and Decision Making Journal*, 2013, 2014.
- Reviewer for *The Journal of Biomedical Informatics*, 2013, 2014.
- Reviewer for *The Communications of the ACM Journal*, 2013.
- Reviewer for *The IEEE Internet Computing Journal*, 2013.
- Reviewer for *The NED University Journal of Research - Applied Sciences*, 2013.
- Reviewer for *The Journal of Medical Internet Research (JMIR)*, 2013.
- Reviewer for *The Extending Database Technology Conference*, 2012, 2013.
- Reviewer for *The International Journal of Uncertainty, Fuzziness and Knowledge Based Systems*, 2012.
- Reviewer for *The Journal of the American Medical Informatics Association*, 2012.
- Reviewer for *The IEEE Transactions on Neural Networks Journal*, 2011, 2012.
- Reviewer for *The International Conference on Scientific and Statistical Database Management*, 2012.
- Reviewer for *The SIGMOD Record Journal*, 2011.
- Reviewer for *The Journal of Computing Science and Engineering*, 2011.
- Reviewer for *The International Conference on Information Systems*, 2011.
- Reviewer for *The IEEE Transactions on Knowledge and Data Engineering Journal*, 2006, 2007, 2011.
- Reviewer for *The Journal of Computing Science and Engineering*, 2011.
- Reviewer for *The Information Fusion Journal*, 2010.
- Reviewer for *The Transactions on Data Privacy Journal*, 2010.
- Reviewer for *The Advances in Databases and Information Systems*, Riga, Latvia, 2009.
- Reviewer for *The Journal of Computer Security*, 2008.
- Reviewer for *The Journal of Zhejiang University-SCIENCE*, 2008.
- Reviewer for *The 10<sup>th</sup> IEEE Annual Computing and Communication Workshop and Conference*, 2019.
- Reviewer for *The IEEE International Conference on Pervasive Computing and Communications (PERCOM 2008)*, 2008.
- Reviewer for *The 11<sup>th</sup> World Congress on Internet in Medicine*, 2006.
- Faculty Advisor for NKU Soccer Club, 2016 – **present**.
- Faculty Advisor for NKU Tennis Club, 2006 – 2009.
- Ph. D. Committee Member for Mohammad Rawashdesh, University of Cincinnati, 2011 - 2013.
- Honors Advisor for Mikael Soto for thesis entitled "*Inside the Queen City*," Northern Kentucky University, 2017.
- M.S. Thesis Advisor for Scot Cunningham for thesis entitled "*Protecting Privacy in Recorded Conversations*," Northern Kentucky University, 2007.
- Research Advisor for John Miller, Paul Meyer, Andrew Elstun, Nicholas Cooper, John Dwyer, Irina Vorobyeva, Darci Guriel, Mary Ferguson, Helina Oladapo, Matthew Beckerich, Ross Brown, Todd Franklin, Archana Kori, John Ligawa, Justine Burchell, Aneeta Suhag, Ratna Akula, Adam Troescher, Alex Wendel, Andrew Livingston, Clay

- Graves, Mona Alnahari, Arnold Pennington, Rukmani Vijayakumar, Mikael Soto, Anthony Carella, Murat Kotsoev, Richard Koop, Alexey Shitov, Teerapong Uthairat, Barbara Powell, Manohar Prattipati, Bharat Godavarti, Mohamed Said, Venkat Paruchuri, Monika Pradhan, Matthew Beckerich, Tobel Atnafu, Parker Kain, Emily Clemmons, Jenna Wallin, Shawn Huesman, Celine Wardrop, Vamsi Krishna Meda for NKU Celebration of Student Research and Creativity, Northern Kentucky University, various years, 2005 – 2022.
- eDX Course, CornellX: INFO2040x Networks, Crowds and Markets, April 2015.
  - Statement of Accomplishment with Distinction (Coursera), Networked Life, November 2014.
  - Statement of Accomplishment with Distinction (Coursera), *The Modern World: Global History since 1760*, May 2013.
  - Statement of Accomplishment (Coursera), *Social Network Analysis*, December 2012.
  - Database administrator for the *citdb.nku.edu* server, 2008 - **present**.
  - “*Citizen Journalism Project*” (with Mr. Brad King and Dr. Maureen Doyle), a project that integrates media informatics with computer science and computer information technology, Fall 2006 – Fall 2007.
  - Computer science students’ supervisor and software consultant for developing the School-Based Health Center software (SBHC). The software will provide secure administration and management of patient visits to school based health care centers in Kentucky, 2005 - 2006.
  - Database and web administrator for the *cscdb.nku.edu* server, 2004 – 2016.
  - Responsible for web casting (streaming video and audio files linked to the corresponding slides) of lectures presented in the Wayne State University graduate seminar for Fall 2003.
  - Implementation of various SDC methods, disclosure risk and information loss measures in SAS, 2003 – 2004.
  - Implementation of AMMG (Automated System for Masked Microdata) – a prototype for a web service that generates masked microdata based on user specifications, 2002.
  - System Administrator for the Multimedia Information System Laboratory (over 20 computers, Windows NT, 2000, XP, web and database server administration), 2000 – 2004.
  - Software developer for ROCASE (the best Romanian software product 1998) – a Computer Aided Software Engineering tool for the analysis, design, and implementation of software systems belonging to some of the most varied fields (including in activities of business re-engineering) using Object-Oriented Technology (OOT), 1997 - 1999.
  - Software developer for PHOENIX – a Reverse Engineering tool which analyzes any C++ code and also Visual C++ and Borland C++ extensions, interpreting correctly and completely the information available within the macros and template classes, 1997 - 1999.