

# MURTUZA S. JADLIWALA

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## CONTACT INFORMATION

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## EMPLOYMENT HISTORY

### Wichita State University, Wichita, KS, USA

– *Assistant Professor in the Electrical Engg. and Computer Science Dept.*      **January 2012 - current**

### Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland

– *Lecturer in the School of Computer and Communication Sciences*      **September, 2011 - December, 2011**

– *Research Scientist in the School of Computer and Communication Sciences*      **September, 2008 - September, 2011**

### State University of New York at Buffalo (SUNY Buffalo), Buffalo, NY, USA

– *Graduate Assistant in the Dept. of Computer Science and Engg.*      **August, 2003 - May 2008**

### Investment Research and Information Services Ltd., Mumbai, India

– *Software Engineer and Technical Leader*      **June, 2000 - June 2002**

## EDUCATION

### State University of New York at Buffalo, Buffalo, NY, USA

- Ph.D., Computer Science, September 2008.
- M.S., Computer Science, June 2004.

### Mumbai University, Mumbai, India

- B.E., Computer Engineering, June 2000.

## HONORS AND AWARDS

- **Dwane and Velma Wallace Excellence in Teaching Award**, 2017.
- **Finalist for the Wichita State University Academy for Effective Teaching (AET) award** - This is a student nominated teaching award.
- **U.S. Air Force Office of Scientific Research Summer Faculty Fellowship**, 2015. Fellowship included a stipend of approximately \$15K to perform research on wearable device security at the AFRL Information Institute in Rome, NY.
- **Wichita State University Award for Research/Creative Projects**, 2014. Award included a \$4K seed grant for research in online social network security and privacy.
- **Nokia Invention Awards** in 2010 and 2011. Each award was accompanied by approximately a \$2K stipend.
- **Graduate Student Research Award** for outstanding research activities, SUNY Buffalo, August 2005.

## RESEARCH INTERESTS

My research interests are broadly in the area of systems and network security and privacy. Currently, I am investigating system security and user privacy threats in human-centered cyber-physical systems, such as wearable devices, wireless medical devices and smart metering systems, and in socio-technical systems, such as online social networking and crowd-sourcing services (including, participatory sensing systems).

- RESEARCH FUNDING – **PI**: “EAGER: A Cloud-assisted Framework for Improving Pedestrian Safety in Urban Communities using Crowd-sourced Mobile and Wearable Device Data”, sponsored by National Science Foundation (NSF), \$179,843 from July 2016 - July 2018. Co-PI: Jibo He (Wichita State University).
- **PI**: “CSR: Small: Surviving Cybersecurity and Privacy Threats in Wearable Mobile Cyber-Physical Systems”, sponsored by National Science Foundation (NSF), \$403,044 from October 2015 - October 2018. Co-PI: Jibo He (Wichita State University).
  - **PI**: “Surviving Cybersecurity Threats in the Era of Modern Wearable Cyber-Physical Systems”, Summer Extension Grant sponsored by Information Institute, US Air Force Research Lab (AFRL), \$9833 from September - October 2015.
  - **PI**: “Social Puzzles: Context-Based Access Control in Online Social Networks”, Award for Research/Creative Projects in Summer sponsored by Office of Research and Technology Transfer, Wichita State University, \$4000 from May - July 2014.
  - **Co-PI**: “Towards a Privacy-Aware Information-Sharing Framework for Advanced Metering Infrastructures”, sponsored by Power Systems Energy Research Center (PSERC), an NSF Industry-University Cooperative Research Center, \$220,000 from June 2013 - August 31, 2015. PI: Vinod Namboodiri (Wichita State University), Co-PIs: Murtuza Jadliwala, Visvakumar Aravinthan (Wichita State University) and Lalitha Sankar (Arizona State University).

RESEARCH  
EXPERIENCE

Wichita State University, Wichita, USA

- *Director of Security, Privacy, Trust and Ethics in Computing Research Lab (SPriTE Lab)* **January, 2012 - current**  
Current research projects can be found at: <http://sprite.cs.wichita.edu/>

Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland

- *Postdoctoral Research Fellow* **September, 2008 - December, 2011**  
Projects undertaken can be found at: <http://lca.epfl.ch/projects/privacy-mobile-pervasive/>

State University of New York at Buffalo (SUNY Buffalo), Buffalo, NY, USA

- *Research Assistant at the Center of Excellence in Information Systems Assurance Research and Education (Dept. of CSE, SUNY Buffalo)* **August, 2004 - 08**  
Includes Ph.D. thesis work, Ph.D. and Masters level coursework and other research projects.

PUBLICATIONS

Refereed Journals

- Bagai, R., Malik, N., and M. Jadliwala, “Measuring Anonymity of Pseudonymized Data after Probabilistic Background Attacks”, in the IEEE Transactions on Information Forensics and Security, 2017 (To Appear).
- Boustani, A., Maiti, A., Yousefian Jazi, S., Jadliwala, M., Namboodiri, V., “Seer Grid: Privacy and Utility Implications of Two-Level Load Prediction in Smart Grids”, in the IEEE Transactions on Parallel and Distributed Systems, 2017.
- Bilogrevic, I., Huguenin, K., Agir, B., Jadliwala, M., Gazaki, M., and Hubaux, J-P., “A Machine-Learning Based Approach to Privacy-Aware Information-Sharing in Mobile Social Networks”, in Pervasive and Mobile Computing (PMC), Elsevier, 2016.
- Karimi, B., Namboodiri, V., and Jadliwala, M., “Scalable Meter Data Collection in Smart Grids through Message Concatenation”, in the IEEE Transactions on Smart Grids, 2015.
- Bilogrevic, I., Jadliwala, M., Joneja, V., Kalkan, K., Hubaux, J-P. and Aad, I., “Privacy-Preserving Optimal Meeting Location Determination on Mobile Devices”, accepted in IEEE Transactions on Information Forensics and Security (TIFS), 2014.
- Jadliwala, M., Bilogrevic, I. and Hubaux, J-P., “Optimizing Mix-zone Coverage in Pervasive Wireless Networks”, in the Journal of Computer Security, Vol. 21, No. 3, pp. 317-346, IOS Press, 2013.
- Freudiger, J., Jadliwala, M., Hubaux, J-P., Niemi, V., and Ginzboorg, P., Privacy of Community Pseudonyms in Wireless Peer-to-Peer Networks, ACM/Springer Mobile Networks and Applications (MONET): Special Issue on Context-Awareness of Mobile Systems, Vol. 18, No. 3, pp. 413-428, Springer-Verlag, 2012.
- Bilogrevic, I., Jadliwala, M., Kumar, P., Walia, SS., Hubaux, J-P., Aad, I. and Niemi, V., “Meet-

ings through the Cloud: Privacy-Preserving Scheduling on Mobile Devices”, Elsevier Journal of Systems and Software, Special Issue on ‘Mobile Applications: Status and Trends’, Vol. 84, pp. 1910-1927, 2011.

- Jadliwala, M., Zhong, S., Upadhyaya, S., Qiao, C. and Hubaux, J-P., “Secure Distance-Based Localization in the Presence of Cheating Beacon Nodes”, IEEE Transactions on Mobile Computing (TMC), Vol. 9, Nr. 6, pp. 810-823, 2010.
- Jadliwala, M., Duan, Q., Xu, J. and Upadhyaya, S. (2007) “On Extracting Consistent Graphs in Wireless Sensor Networks”, International Journal of Sensor Networks (IJSNET): Special Issue on Theoretical and Algorithmic Aspects in Sensor Networks, Vol. 2, Nos. 3/4, pp.149-162, 2007.

### **Refereed Conference Proceedings**

- Maiti, A., Armbruster, O., Jadliwala, M., and He, J., “Smartwatch-Based Keystroke Inference Attacks and Context-Aware Protection Mechanisms”, in the proceedings of the 11th ACM Asia Conference on Computer and Communications Security (ASIACCS), Xi’an, China, May-June 2016.
- Maiti, A., Jadliwala, M., He, J., and Bilogrevic, I., “(Smart)Watch Your Taps: Side-Channel Keystroke Inference Attacks using Smartwatches”, in the proceedings of the 19th annual International Symposium on Wearable Computers (ISWC), Osaka, Japan, 2015.
- Boustani, A., Jadliwala, M. Kwon, H. and Alamatsaz, N., “Optimal Resource Allocation in Cognitive Smart Grid Network”, in the proceedings of the 12<sup>th</sup> Annual IEEE Consumer Communications and Networking Conference (CCNC 2015), Las Vegas, Nevada, 2015.
- Jadliwala, M., Maiti, A. and Namboodiri, V., “Social Puzzles: Context-Based Access Control in Online Social Networks”, in the proceedings of the 44<sup>th</sup> Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), Atlanta, Georgia, USA, 2014.
- Alamatsaz, N., Boustani, A., Jadliwala, M. and Namboodiri, V., AgSec: Secure and Efficient CDMA-based Aggregation for Smart Metering Systems. in the proceedings of the 11<sup>th</sup> Annual IEEE Consumer Communications and Networking Conference (CCNC 2014), Las Vegas, Nevada, 2014.
- Boustani, A., Alamatsaz, N., Jadliwala, M. and Namboodiri, V., LocJam: A Novel Jamming-based Approach to Secure Localization in Wireless Networks. in the proceedings of the 11<sup>th</sup> Annual IEEE Consumer Communications and Networking Conference (CCNC 2014), Las Vegas, Nevada, 2014.
- Karimi, B., Namboodiri, V. and Jadliwala, M., “On the Scalable Collection of Metering Data in Smart Grids through Message Concatenation”, in the proceedings of the IEEE International Conference on Smart Grid Communications - Symposium on Communication Networks for Smart Grids and Smart Metering (SmartGridComm 2013), Vancouver, Canada, 2013.
- Bilogrevic, I., Huguenin, K., Agir, B., Jadliwala, M. and Hubaux, J-P., “Adaptive Information-Sharing for Privacy-Aware Mobile Social Networks”, in the proceedings of the 2013 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2013), Zurich, Switzerland, 2013.
- Badruddoza, A., Namboodiri, V. and Jadliwala, M., “On the Energy Efficiency of Dynamic Spectrum Access under Dynamic Channel Conditions”, in the proceedings of the 2013 International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM 2013), Washington DC, 2013.
- Bilogrevic, I., Jadliwala, M., Lam, I., Aad, I., Ginzboorg, P., Niemi, V., Bindschaedler, L., and Hubaux, J-P., “Big Brother Knows Your Friends: on Privacy of Social Communities in Pervasive Networks”, in the Proceedings of the 10th International Conference on Pervasive Computing (PERVASIVE 2012), Newcastle, UK, 2012.
- Bindschaedler\*, L., Jadliwala\*, M., Bilogrevic, I., Aad, I., Ginzboorg, P., Niemi, V. and Hubaux, J-P., “Track Me If You Can: On the Effectiveness of Context-based Identifier Changes in Deployed Mobile Networks”, in the Proceedings of the 19<sup>th</sup> Annual Network & Distributed System Security Symposium (NDSS 2012), San Diego, USA, 2012 (\* Equally Contributing Authors).
- Jadliwala, M., Bilogrevic, I. and Hubaux, J-P., “Optimizing Mixing in Pervasive Networks: A Graph-Theoretic Perspective”, in the Proceedings of the 16<sup>th</sup> European Symposium on Research in Computer Security (ESORICS 2011), Leuven, Belgium, 2011.
- Bilogrevic, I., Jadliwala, M., Kalkan, K., Hubaux, J-P. and Aad, I., “Privacy in Mobile Com-

- puting for Location-Sharing-Based Services”, in the Proceedings of the 11<sup>th</sup> Privacy Enhancing Technologies Symposium (PETS 2011), Waterloo, Ontario, 2011.
- Bilogrevic, I., Jadliwala, M., Hubaux, J-P., Aad, I. and Niemi, V., “Privacy-Preserving Activity Scheduling on Mobile Devices”, in the Proceedings of the 1<sup>st</sup> ACM Conference on Data and Application Security and Privacy (CODASPY 2011), San Antonio, Texas, 2011.
  - Jadliwala, M., Duan, Q., Upadhyaya, S. and Xu, J., “Towards a Theory for Securing Time Synchronization in Wireless Sensor Networks”, in the Proceedings of the 2<sup>nd</sup> ACM Conference on Wireless Network Security (WiSec 2009), pages: 201-212, Zurich, Switzerland, 2009.
  - Zhong, S., Jadliwala, M., Upadhyaya, S. and Qiao, C., “Towards a Theory of Robust Localization against Malicious Beacon Nodes”, in the Proceedings of The 27<sup>th</sup> IEEE International Conference on Computer Communication (INFOCOM 2008), pages: 1391-1399, Phoenix, Arizona, April 15-17, 2008.
  - Jadliwala, M., Upadhyaya, S. and Taneja, M., “ASFALT: A Simple Fault-Tolerant Signature-based Localization Technique for Emergency Sensor Networks”, in the Proceedings of The 26<sup>th</sup> IEEE International Symposium on Reliable Distributed Systems (SRDS 2007), pages: 3-12, Beijing, CHINA, October 10-12, 2007.
  - Virendra M., Jadliwala M., Chandrasekaran M., Upadhyaya S., “Quantifying Trust in Mobile Ad-Hoc Networks”, In Proceedings of the IEEE International Conference on Integration of Knowledge Intensive Multi-agent Systems (KIMAS’05), Waltham, MA, Apr 2005, pp. 65-71.
  - Braynov, S. and Jadliwala, M. 2004. “Detecting Malicious Groups of Agents”, in proceedings of the 1<sup>st</sup> IEEE Symposium on Multi-agent Security and Survivability, Drexel University, Philadelphia, PA, USA, 2004.

### **Refereed Workshop Proceedings**

- Crager, K., Maiti, A., Jadliwala, M., He, J., Information Leakage through Mobile Motion Sensors: User Awareness and Concerns, in the Proceedings of the 2nd European Workshop on Usable Security (EuroUsec), colocated with Euro S&P, 2017.
- Maiti, A., Crager, K., Jadliwala, M., He, J., Kwiat, K., Kamhoua, C., “RandomPad: Usability of Randomized Mobile Keypads for Defeating Inference Attacks”, in the Proceedings of the 2nd International Workshop on Innovations in Mobile Privacy and Security (IMPS), colocated with Euro S&P, 2017.
- Maiti, A., Jadliwala, M., Weber, C., “Preventing Shoulder Surfing using Randomized Augmented Reality Keyboards”, in the Proceedings of the 2nd IEEE PerCom Workshop on Security, Privacy and Trust in the Internet of Things (SPT-IOT), 2017.
- Bilogrevic, I., Huguenin, K., Jadliwala, M., Lopez, F., Hubaux, J-P., Ginzboorg, P. and Niemi, V., “Inferring Social Ties in Academic Networks Using Short-Range Wireless Communications”, Accepted for publication in the Proceedings of the 2013 ACM Workshop on Privacy in the Electronic Society (WPES 2013), Berlin, Germany, 2013.
- Jadliwala, M., Freudiger, J., Aad, I., Hubaux, J-P. and Niemi, V., “Privacy-Triggered Communications in Pervasive Social Networks”, in the Proceedings of the 5<sup>th</sup> IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC 2011), Lucca, Italy, 2011.
- Shokri, R., Freudiger, J., Jadliwala, M. and Hubaux, J-P., “A Distortion-based Metric for Location Privacy”, in the Proceedings of the ACM Workshop on Privacy in the Electronic Society (WPES), Chicago, USA, 2009.
- Jadliwala, M., Upadhyaya, S., Rao, H.R. and Sharman, R. “Security and Dependability Issues in Location Estimation for Emergency Sensor Networks”, The Fourth Workshop on e-Business (WeB 2005), Venetian, Las Vegas, Nevada, USA, 2005.
- Braynov, S. and Jadliwala, M. “Representation and Analysis of Coordinated Attacks”, in the Proceedings of The ACM Workshop on Formal Methods in Security Engineering (FMSE), pp. 43-51, Washington D.C., USA, 2003.

### **Posters/Demos**

- Bilogrevic, I., Huguenin, K., Jadliwala, M., Florent Lopez, Hubaux, J-P., Ginzboorg, P. and Niemi, V., “Poster and Extended Abstract: Inferring Social Ties in Pervasive Networks: An On-campus Comparative Study”, Accepted for publication in the proceedings of the 2013 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2013), Zurich,

Switzerland, 2013.

- Jadliwala, M., Freudiger, J., Aad, I., Hubaux, J-P. and Niemi, V., “Demo: Privacy-Triggered Communications in Pervasive Social Networks”, at the 8th Annual International Conference on Mobile Systems, Applications and Services (ACM MobiSys), San Francisco, USA, June 15 2010.
- Bilogrevic, I., Jadliwala, M. and Hubaux, J-P., “Security Issues in Next Generation Mobile Networks: LTE and Femtocells”, at the 2nd International Femtocell Workshop, Luton, UK, June 21 2010.

### Patents

- Aad, I., Bilogrevic, I., Cristofaro, E., Durussel, A., Hubaux, J-P., Jadliwala, M., Niemi, V., “Method and apparatus for preserving privacy for appointment scheduling”, Granted by USPTO, Publication number: US8667062 B2.
- Aad, I., Freudiger, J., Jadliwala, M., Hubaux, J-P. and Raya, M., “Method and apparatus for triggering user communications based on privacy information”, 12/718521, 2010 (Date filed: 05-Mar-2010).

### TEACHING EXPERIENCE

### Teaching Highlights

- Instrumental in developing the computer security and information assurance curricula at Wichita State University. This includes significantly improving the existing courses, and developing many new undergraduate and graduate level courses and labs in this area.
- Voted as one of the top three teachers in the EECS department in the IEEE-HKN (WSU chapter) Nikola Tesla Award.
- Played an instrumental role in the development and deployment of WuMesh, a wireless, software-defined, mesh network testbed, which is currently being used for various teaching and research-related activities in the computer networking area at Wichita State University.
- Currently developing a computer security crash lab, which will serve as a teaching lab for the computer security and information assurance-related courses, and will aid in conducting security experiments and lab demos for students in a controlled environment.

### Wichita State University, Wichita, KS, USA

- *CS 797G - Mathematical Foundations of Computer Networking* **Fall 2015**
  - *CS 898AD\* - Security and Cooperation in Wireless Networks* **Fall 2014**
  - *CS 898AB\* - Privacy Enhancing Technologies* **Fall 2013, Spring 2015,16,17**
  - *CS 767\* - Foundations of Network Security* **Spring 2013,14,15,16,17**
  - *CS 736 - Data Communication Networks* **Spring 2013**
  - *CS 766\* - Information Assurance & Security* **Fall 2012,13,14,15,16**
  - *CS 464 - Computer Networks* **Spring 2012, Fall 2016**
  - *CS 560 - Data Structures and Algorithms II* **Spring 2012**
- \* - newly designed courses taught for the first time at Wichita State University

### Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland

- *Co-taught Computer Networks with Prof. Jean-Pierre Hubaux* **Fall, 2011**
- *Guest Lecturer for Computer Networks* **Fall, 2010**

### STUDENT SUPERVISION AND COMMITTEES

### Current and Past Graduate Students

- Ms. Nisha Vinayaga Sureshkanth, PhD, expected June 2019, Wichita State University
- Mr. Anindya Maiti, PhD, expected December 2017, Wichita State University
- Mr. Jeffery Weide, MS Thesis, expected June 2017, Wichita State University
- Mr. Arash Boustani, PhD, December 2016, Wichita State University
- Ms. Zoya Khan, MS Thesis, December 2015, Wichita State University
- Mr. Anindya Maiti, MS Thesis, September 2014, Wichita State University
- Mr. Navid Alamatsaz, MS Thesis, June 2014, Wichita State University
- Mr. Cheng Jiang, MS Thesis, June 2014, Wichita State University

- Mr. Laurent Bindschaedler, MS Thesis, June 2011, EPFL

### **Honors to Graduate Students**

- Mr. Anindya Maiti received the Wichita State University’s 2015 Dora Wallace Hodgson Outstanding Thesis award for his MS Thesis work.
- Ms. Zoya Khan won the People’s Choice Award at the Google Hackathon 2014, held Oct. 24-25 at the national convention of the Society of Women Engineers, in Los Angeles, USA.

### **Thesis and Dissertation Supervision and Committees**

- “Security and Privacy in Critical Infrastructure Cyber-Physical Systems: Recent Challenges and Solutions” by Arash Boustani (PhD Dissertation Committee Chair, Fall 2016), Wichita State University
- “An Evaluation of the Effectiveness of Smart Meter Data Perturbation Mechanisms using a Unified Stochastic Framework” by Zoya Khan (Masters Thesis Committee Chair, Fall 2015), Wichita State University
- “Online Privacy Preservation Using Packet Padding” by Kirankumar Chandrashekar (Masters Thesis Committee Member, Fall 2015), Wichita State University
- “Disclosure Risk Measurement of Anonymized Datasets after Probabilistic Attacks” by Nafia Malik (Masters Thesis Committee Member, Summer 2014), Wichita State University
- “Context-Aware Access Control: An Alternate Privacy Protection Mechanism for Online Social Networks ” by Anindya Maiti (Masters Thesis Committee Chair, Summer 2014), Wichita State University
- “Towards an Analytical Framework for Privacy Preserving Aggregation in Smart Grid” by Navid Reza Alamatsaz (Masters Thesis Committee Chair, Spring 2014), Wichita State University
- “Preserving Query Privacy with a Query-based Memorizing Algorithm” by Jiang Cheng (Masters Thesis Committee Chair, Spring 2014), Wichita State University
- “Mining Evolutionary Couplings from Developer Interactions and Commits” by Fasil T. Bantelay (Masters Thesis Committee Member, Summer 2013), Wichita State University
- “On the Energy Efficiency of Dynamic Spectrum Access in the Ad-hoc wireless LAN scenario” by Anm Badruddoza (PhD Dissertation Committee Member, Spring 2013), Wichita State University
- “Effect of Data Caching on System-wide Anonymity with Users Sending and Receiving Multiple Messages” by Ahsan Ahmad Khan (Masters Thesis Committee Member, Spring 2012), Wichita State University
- “Measuring Anonymity while Sending and Receiving Multiple Messages” by Abdus Samad (Masters Thesis Committee Member, Spring 2012), Wichita State University
- “Track Me If You Can!: Measuring Effectiveness of Context-based Pseudonym-Changes against Coordinated Tracking Attacks in Pervasive Social Networks” by Laurent Bindschaedler (Masters Thesis Committee Chair, Spring 2011), EPFL
- “From Privacy Protection to Service Optimization in Pervasive Networks” by Anthony Durussel (Masters Thesis Committee Member, Spring 2010), EPFL

### **Project Supervision**

- “Energy Consumption of Commercial UAV under Variable Payload” by Matthew Krehbiel (Masters Project Committee, Fall 2016), Wichita State University
- “The Impact of Communication Frequency on the Energy-Efficiency of Cognitive Radios” by Farid Al Zoubi (Masters Project Committee, Spring 2012), Wichita State University
- “Where do we Meet? A Privacy-Preserving Meeting Location System for Mobile Devices” by Igor Bilogrevic (EPFL Doctoral school project, Fall 2011), EPFL
- “Nokia Instant Community Trial: Usage Reports and Data Visualization” by Stefan Lazarevic (Masters semester project, Spring 2011), EPFL
- “A Tool for Efficient Storage and Retrieval of User Mobility and Application Data in Experimental Systems” by Dimitrije Pesic (Masters semester project, Spring 2011), EPFL
- “The Security of QR-Codes for Mobile Advertising” by Arbuzova Natalya (Masters semester project, Spring 2011), EPFL
- “Familiar Stranger Applications for Pervasive Social Networks” by Juyuan Liu (Masters semester project, Spring 2011), EPFL

- “Catch Me If You Can: Femtocell-based IMSI/TMSI Catcher for UMTS Cellular Networks” by Dominique Bongard (Doctoral semester project, Fall 2010), EPFL
- “UMTS and Femtocell security: Hands-on Experience with Real Cellular Networks” by Carl Hedari and Charles-Edmond Renouard (Masters semester project, Fall 2010), EPFL
- “Pseudonym Change Algorithm for Nokia Instant Community” by Andreea-Simona Anghel (Masters semester project, Fall 2010), EPFL
- “Privacy-Preserving Optimal Meeting Location Scheduling on Mobile Devices” by Vishal Joneja (Masters semester project, Fall 2010), EPFL
- “Privacy-Preserving Optimal Meeting Location Scheduling on Mobile Devices” by Kubra Kalkan (Internship, Summer 2010), EPFL
- “Implementation and Analysis of Privacy-Preserving Scheduling Protocols” by Praveen Kumar and Sudeep Singh Walia (Internship, Summer 2010), EPFL
- “Measuring Privacy in Pervasive Social Networks” by Sabrina Pérez (SeCoWinet course project, Fall 2009), EPFL
- “Data-centric Trust Mechanisms in Real-Time Context-Aware Data Sharing” by Tingting Chen (Internship, Summer 2009), EPFL
- “Quantifying and Visualizing Privacy in Pervasive Social Networking Applications” by Laurent Bindschaedler and Avital Gutman (Internship, Summer 2009), EPFL
- “Secure Short Messaging Service (SSMS) on Mobile Devices” by Marc Bailly and Laurent Bindschaedler (Bachelor Semester Project, Spring 2009), EPFL
- “Secure Messaging Between Mobile Devices in Ad-Hoc Mode” by Nawfal Cherqui (Masters Semester Project, Spring 2009), EPFL
- “Best-Effort Secure Positioning in Wireless Networks” by Loïc Etienne and Aristidis Papaioannou (SeCoWinet course project, Fall 2008), EPFL
- “Best Effort Secure Time Synchronization in Low Duty-cycle Wireless Sensor Networks” by Mitko Tanevski (SeCoWinet course project, Fall 2008), EPFL

PROFESSIONAL  
SERVICE

**Conference Organization**

- Workshop Chair, HotWiSec 2013 (co-located with ACM WiSec 2013), Budapest, Hungary, April 2013.
- Program Co-Chair, HotWiSec 2011 (co-located with IPCCC 2011), Orlando, Florida, November 2011.
- Workshop Co-Chair, IEEE SRDS 2010, New Delhi, India, November 2010.
- Publicity Co-Chair, IEEE SRDS 2009, Niagara Falls, NY, September 2009.
- General Chair, 21<sup>st</sup> Annual Computer Science and Engineering Graduate Research Conference, Dept. of CSE, SUNY Buffalo, March 2008.

**Technical Program Committees**

- IEEE ISM 2015-16, 4th International Symposium on Forensic Science and Security (SDFS 2016), ACM ASIACCS Security in Cloud Computing Workshop 2016, IEEE SmartGridComm 2015, ACM WiSec 2014-2015, ANT 2013-2014, CCNC 2014, Annual Symposium on Information Assurance 2012-2015, Nokia Mobile Data Challenge Workshop (MDC) 2012, PILATES 2012, ICCCN 2011,2012,2016,2017, UIC 2010, IEEE ISDPE 2010, IEEE IPCCC 2009 - 2016, Workshop on Secure Knowledge Management (SKM 2008, 2010).

**Reviewer**

- **Federal Funding Agencies:** Panelist for the NSF Computer and Information Science and Engineering directorate (2014, 2017), Panelist for the NSF Cyber-Physical Systems (CPS) program (2014-2017).
- **Journals:** ACM Transactions on Sensor Networks, IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE Transactions on Spatial Algorithms and Systems, IEEE Transactions on Wireless Communications, IEEE Transaction in Mobile Computing (TMC), IEEE Transactions in Parallel and Distributed Systems (TPDS), IEEE Transactions on Information Forensics and Security (T-IFS), IEEE Transactions on Vehicular Technology (TVT), IEEE Transactions on Network and Service Management (TNSM), IEEE Journal on Selected Topics in Signal Pro-

cessing, IEEE Transactions on Industrial Informatics, IEEE Wireless Communications Magazine, IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans, Elsevier Pervasive and Mobile Computing, Elsevier Computer Communications, Elsevier Information Sciences journal, EURASIP Journal on Wireless Communications and Networking, International Journal of Distributed Sensor Networks.

- **Conferences:** CCS, PETS, INFOCOM, MILCOM, SRDS, Wi-Opt, WiSec, Financial Crypto.

**Editor**

- Springer Information Systems Frontier Journal (Coordinating Editor).