CURRICULUM VITAE

Fahad Samad

B.S. [Computer Science], University of Karachi, Pakistan

M.S. [Information Technology - Networking], National University of Sciences and Technology (NUST), Pakistan

Ph.D [Computer Science - Wireless Network Security], RWTH Aachen University, Germany

Name	:	**FAHAD SAMAD**
Nationality	:	Pakistani
Date of Birth	:	August 10, 1981
Marital Status	:	Married
Present Address	:	House Number E-1, Gulistan-e-Zafar, P.R.E.C.H.S. Project-8, near S.M.C.H.S. Block-B, Karachi.
Telephone	:	Mobile : +92-344-2423063
	:	E-mail : fahadsamad@gmail.com

OBJECTIVE

I would like to be an indispensable part of the higher education and scientific research community. My objective is to contribute in the field of computer science using the skills that I have developed and the work experience that I have attained in teaching and scientific research. I am positive that my contributions would definitely help the computer science department of the university to flourish and it would produce graduates who would make my colleagues and my employer proud Inshallah.

QUALTIFICATIONS

2007 – 2011	**Doctorate,** *Ph.D. (Dr.-Ing.), RWTH Aachen University, Aachen, Germany.* *Grade: Cum laude*
2004 – 2006	**Graduate,** *M.S. (Information Technology), National University of Sciences and Technology (NUST), Pakistan* *Grade: Cumulative Grade Point Average = 3.21 (on a scale of 4.0).*
2000 – 2004	**Undergraduate,** *B.S. (Computer Science), University of Karachi, Pakistan.* *Grade: Cumulative Grade Point Average = 3.26 (on a scale of 4.0)*

WORK EXPERIENCE

Feb. 2012 – Aug. 2014	**Assistant Professor,** *Department of Information Technology, Fujairah College, U.A.E. (Accredited by Ministry of Higher Education and Scientific Research, U.A.E.).* Teaching I.T. courses related to Computer Science and Communication Networks such as Data Structures, Computer Organization and Architecture, Java Programming, Discrete Mathematics, Management Information Systems, Advanced Networking, Network and System Administration, Network Security, Information Security, Network Design and Management, and Wireless Networking at undergraduate levels. My responsibilities are to participate in college meetings, advise students, engage in scholarly activities, and participate in outcome assessment and curriculum development along with other services to the college.
Sep. 2011 – Feb. 2012	**Assistant Professor,** *Department of Computer Science and Information Technology, Institute of Business and Technology (IBT), Pakistan.* Taught courses such as Network Security, Programming Fundamentals, and Data Structures and Algorithms at undergraduate and graduate levels.
Apr. 2007 – July 2011	**Research Assistant,** *Informatik 4, RWTH Aachen University, Aachen, Germany.* Worked as a Research Assistant at Informatik 4 in the field of "Adaptive Security and Privacy in Wireless Mesh Networks".

CURRENT RESEARCH INTERESTS

Security and Privacy in Wireless Mesh Networks and Cloud Computing. Security in Mobile, Local Area and Wide Area Networks. Privacy in Radio Frequency Identification (RFID) Systems and Computer Forensics.

COMPLETED THESES AND PROJECTS

Doctoral Thesis	Securing Wireless Mesh Networks - A Three Dimensional Perspective
Master's Thesis	Secured Management Frames in Wireless Local Area Networks
Master's Semester Project	Implementation of OSPF Routing Protocol
Bachelor's Final Project	Online Web-Database for Automobile Corporation of Pakistan (ACP)
Bachelor's Semester Project	Active to passive voice conversion software for Natural Language Processing (NLP)

PUBLICATIONS

1. Fahad Samad, Qassem Abu Ahmed, Asadullah Shaikh, and Abdul Aziz. **JAM: Mitigating jellyfish attacks in wireless ad hoc networks**. In Emerging Trends and Applications in Information Communication Technologies, volume 281 of Communications in Computer and Information Science, pages 432–444. Springer Berlin Heidelberg, 2012.

2. Asadullah Shaikh, Naveed Anjum, Fahad Samad, and Asadullah Shah. **Building wireless sensor networks application using sun spots**. In Emerging Trends and Applications in Information Communication Technologies, volume 281 of Communications in Computer and Information Science, pages 466–477. Springer Berlin Heidelberg, 2012.

3. S. Karuppayah and F. Samad. **CAD+: Detecting colluding nodes in gray hole attacks**. In Lecture Notes in nformatics, GI-Edition, S-10 (Informatiktage 2011), pages 279–282. Gesellschaft für Informatik, Köllen Verlag GmbH, Bonn, 2011.

4. F. Samad and S.A. Makram. **Adaptive security established on the requirements and resource abilities of network nodes**. In Proceedings of the 10th International Workshop on Wireless Local Networks (IEEE WLN 2010) held in conjunction with the 35th International Conference on Local Computer Networks (IEEE LCN 2010), pages 752–755, Denver, Colorado United States, 11-14 Oct. 2010. IEEE.

5. F. Samad and S.A. Makram. **PICAT: Palliating channel assignment assaults using adjustable trust in wireless mesh networks**. In Proceedings of the 19th International Conference on Computer Communications and Networks, (IEEE ICCCN 2010), pages 1 – 7, Zurich, Switzerland, 2-5 Aug. 2010. IEEE

6. S.A. Makram, F. Samad, and M. Gunes. **Neighborhood nodes collaboration to support QoS routing in wireless mesh networks**. In the IEEE Symposium on Computers and Communications, (ISCC 2009), pages 763 –769, Sousse, Tunisia, 5-8 June 2009. IEEE.

7. F. Samad and S.A. Makram. **Handling security vulnerabilities in clustered wireless mesh networks**. In Proceedings of the 2nd International Workshop on Mobile and Wireless Networks Security held in conjunction with the IFIP/TC6 8th International Conference on Networking (Networking 2009), pages 51–62. Shaker-Verlag, 11-15 May 2009.

8. F. Samad and S.A. Makram. **Protection based on neighborhood-trust in clustered wireless mesh networks**. In Proceedings of the 3rd International Conference on Next Generation Mobile Applications, Services and Technologies, (NGMAST 2009), pages 487 –493, Cardiff, Wales, U.K., 15-18 Sep. 2009. IEEE.

9. F. Samad and S.A. Makram. **REALISM: Rendering anonymity and lightweight security with mobility in wireless ad hoc and mesh networks**. In Proceedings of the 5th ACM Symposium on QoS and Security for Wireless and Mobile Networks, (Q2SWinet 2009), pages 97–102, Tenerife, Canary Islands, Spain, 26-30 Oct. 2009. ACM.

10. F. Samad and S.A. Makram. **Controlling physical objects with privacy using secure RFID system**. In Proceedings of the 2nd IFIP International Conference on New Technologies, Mobility and Security, (NTMS 2008), pages 1–5, Tangier, Morocco, 5-7 Nov. 2008. IEEE

11. F. Samad, W. Mahmood, A. Ali, and U. Kalim. **Improved security in IEEE 802.11 Wireless LANs**. WSEAS Transactions on Communications, (Vol. 5, Issue 12), pages 2155–2160, 2006.

OTHER RESEARCH AND ORGANIZATIONAL ACTIVITIES

2010 - 2013	Reviewer of various international conference and seminar papers
2009	Member of the organizing and reviewing committee in the 8th IFIP Networking 2009 conference
2009	Session chair of the 5th ACM Q2SWinet 2009 symposium - Session 5-Security, Trust, and Reputation in Wireless Ad Hoc and Mesh Networks
2006	Active participation in the workshop organized by ZTE (China) on "3G and Next Generation Networks"
2004 – 2005	Member of the organizing committee of international symposium titled "Highspeed Optical Networks and Enabling Technologies" (HONET 2004 and 2005) held in Islamabad, Pakistan

INVITED TALKS

June 2009	On the topic titled "Protection based on Neighborhood Trust in Clustered Wireless Mesh Networks" at the Graduate School for Software for Mobile Communication Systems, Aachen, Germany

THESIS SUPERVISIONS

2010-11	Mr. Karuppayah for his Master's thesis on the topic titled **"Selective Forwarding Attack: Detecting Colluding Nodes in Wireless Mesh Networks"**, Informatik 4, RWTH Aachen University, Germany
2010	Mr. Qassem Abu Ahmed for his Master's thesis on the topic titled **"Mitigating Jellyfish Attacks in Wireless Ad hoc Networks"**, ", Informatik 4, RWTH Aachen University, Germany

COMPUTER SKILLS

Operating Systems	Microsoft Windows family, Linux, and other UNIX variants
Networking	UDP, TCP, ARP, DNS, Dynamic routing, and other networking protocols
Programming Languages	Assembly, Prolog, C, C++, Lisp, and SQL
Applications	Microsoft Office, TEX (LATEX, BibTEX, PSTricks), Adobe applications, and other word processing and presentation tools
Simulation Softwares	NS2 and OMNET++

HONORS, AWARDS, AND CERTIFICATES

Feb. 2007 – Mar. 2011	Fellowship award winner for doctoral studies in Germany
March 2007	German language certificate from Carl Duisburg Centrum, Dortmund, Germany
Aug. 2004 – July 2006	NUST scholarship for Master's studies in Pakistan
Jun. 2004	IELTS certificate with 6.5 band

SOCIAL SKILLS AND COMPETENCES

1) Ability to work singly and in a group.

2) Capability to adapt to culturally and professionally diverse environments.

LANGUAGE SKILLS

Urdu	Mother Tongue
English	Fluent
German	Intermediate
Arabic	Basic

OTHER INTERESTS

Playing Cricket, Reading Books and Newspapers, and Exploring the World (Travelling)

REFERENCES

1) Prof. em. Dr. Dr. h.c. Otto Spaniol
RWTH Aachen University
Chair of Communication and Distributed Systems (Informatik 4)
Ahornstraße 55
D-52074 Aachen, Germany
Office: building E3, room 0.07
Phone: +49 241 80 21450
Fax: +49 241 80 22222
Email: spaniol(at)comsys.rwth-aachen.de

2) Dr. rer. nat. Dirk Thißen
RWTH Aachen University
Chair of Communication and Distributed Systems (Informatik 4)
Ahornstraße 55
D-52074 Aachen, Germany
Office: building E3, room 0.15
Phone: +49 241 80 21403
Fax: +49 241 806 21403
Email: thissen(at)comsys.rwth-aachen.de

3) Dr. Syed Mehmood Naqvi
Head of Department and Academic Advisor
Department of Information Technology
Fujairah College
Fujairah, U.A.E.
Phone: +971- 56- 6280360
Email: dr.naqvi(at)gmail.com

4) Dr. Joergen Emanuel Capuchino
Assistant Professor (Business Administration) and MBA Program Coordinator
Department of Business Administration
Fujairah College
Fujairah, U.A.E.
Phone: +971-50-8289657
Email: joergen(at)fc.ac.ae

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