

Dr. Shah Jamal Alam

School of Science & Engineering, Habib University
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Email: sj.alam@sse.habib.edu.pk
Web: <https://sites.google.com/site/jamialam>

Current interests: simulating social complexity; agent-based modeling; land use change and climate adaptation; HIV transmissions systems; dynamical networks; social network analysis; social and cultural anthropology

Experiences

Assistant Professor (July 2014 – present)

School of Science & Engineering, Habib University, Karachi, Pakistan – <http://habib.edu.pk>

- Spring 2015: Co-teaching CS132: ‘Elements of Computing Systems’ (with Jibrán Rashid and Waqar Saleem) and ENER 192: Energy-II (with Samina Yasmin)
- Fall 2014: Co-taught CS110: ‘Computational Thinking – I’ with Jibrán Rashid and Waqar Saleem.

Postdoctoral Research Associate (March 2012 – June 2014)

Institute of Geography & The Lived Environment

School of GeoSciences, University of Edinburgh, Edinburgh, United Kingdom

CARE Project - <http://www.climateresearchnetherlands.nl>

EU FP7 VOLANTE – <http://www.volante-project.eu>

Postdoctoral Research Fellow (September 2008 – February 2012)

Koopman Lab (Dynamic Causal Systems in Epidemiologic Analysis)

School of Public Health, University of Michigan, Ann Arbor MI, USA

Project: HIV Risk Dynamics and Genetic Sequences –

<http://research.sph.umich.edu/project.cfm?deptID=3&groupID=82&projectID=341>

Doctoral Researcher (April 2005 – April 2008)

Centre for Policy Modelling

Manchester Metropolitan University Business School, Manchester, United Kingdom

Project: EU FP6 Project CAVES (Complexity, Agents, Volatility, Emergence and Scale) –

<http://cfpm.org/caves>

Researcher (October 2004 – March 2005)

Intelligent Learning Environments Group

German Research Centre for Artificial Intelligence (DFKI) GmbH, Saarbrücken, Germany

Project: EU FP6 Project LeActiveMath – <http://leactivemath.org>

Research Assistant (December 2002 – September 2004)

Deduction & Multiagent Systems Lab

German Research Centre for Artificial Intelligence (DFKI) GmbH, Saarbrücken, Germany

Project: “Modellierung sozialer Organisationsformen in VKI und Soziologie” DFG Sozionik –

<http://www.dfki.de/pas/f2w.cgi?dmasp/sozionik-e>

Software Developer (January 2001 – September 2002)

National Growth and Development Standards Project

University of Karachi, Karachi, Pakistan – <http://www.ngds-ku.org>

Cooperative Teacher (July 2002 – September 2002)

Department of Computer Science

University of Karachi, Karachi, Pakistan – <http://www.uok.edu.pk>

Education

PhD (Social Simulation) (2008; defended: August 19, 2008)

Centre for Policy Modelling, Manchester Metropolitan University Business School, UK

Thesis title: Understanding Social Complexity in the Context of HIV/AIDS: A Case Study in Rural South Africa – <http://cfpm.org/cpmrep208.html>

Supervisory committee: Prof. Dr. Scott Moss and Dr. Bruce Edmonds (Center for Policy Modelling)

Examiners: Prof. Dr. Andreas Ernst (Universität Kassel) and Prof. Dr. Oswald Jones (Manchester Metropolitan University/Liverpool University)

Master of Science (Computer Science) mit Auszeichnung (with Honors) (2002 – 2004)

Fachrichtung Informatik, Universität des Saarlandes, Saarbrücken, Germany

Thesis title: Ramifications of Gift Exchange in Multiagent Systems

Thesis supervisors: Dr. Michael Schillo (German Research Center for Artificial Intelligence) and Dr. Frank Hillebrandt (Technical University Hamburg-Harburg)

Examiners: Prof. Dr. Jörg Siekmann and Prof. Dr. Wolfgang Wahlster (German Research Center for Artificial Intelligence/Universität des Saarlandes)

BS (Computer Science) (1998 – 2001)

Department of Computer Science, University of Karachi, Karachi, Pakistan

Thesis title: Teachers' Evaluation Using Genetic Algorithms

Thesis Supervisor: Dr. M. Shahid Qureshi (University of Karachi)

Examiner: Dr. Abdul Ahad Siddiqui (Karachi Institute of Information Technology)

Higher Secondary School Certificate (Pre-Engineering) (1995 – 1997)

Adamjee Govt. Science College, Karachi, Pakistan

Secondary School Certificate (1985 – 1995)

St. Paul's Eng. High School, Karachi, Pakistan

Publications

Edited volume

E-1. Shah Jamal Alam and H. Van Dyke Parunak (Eds.) (2014) *Multi-Agent-Based-Simulation XIV*, Revised Selected Papers from MABS 2013, St. Paul, MN, USA, LNAI vol.8235, Springer

Submitted/in preparation

Y.A.M. van der Knaap, M. Bakker, **S.J. Alam**, J-P.M. Witte, R. Aerts, R. van Ek, P.M. van Bodegom (*in preparation*) Land use changes determine vegetation patterning more than climate change or climate adaptation measures.

P. Reidsma, M. Bakker, A. Kanellopoulos, **S.J. Alam**, W. Paas, J. Kros and W. de Vries (*in preparation*) Sustainable agricultural development in a rural area in the Netherlands? Assessing impacts of climate and socio-economic change at farm and landscape level.

Journals

J-16. H. Kros, M. Bakker, P. Reidsma, A. Kanellopoulos, S.J. Alam and W. de Vries (2015) Impacts of climate and land-use change on nitrogen emissions to air and water and their impacts on ecological networks, *Landscape Ecology*, vol. 30, no. 5, pp. 871-885

J-15. M. Bakker, **S.J. Alam**, T. Spek, J. van Dijk, M. Rounsevell and A. van den Brink (2015) The feasibility of implementing an ecological network in The Netherlands under conditions of global change, *Landscape Ecology*, vol. 30, no. 5, pp. 791-804

J-14. M. Bakker, **S.J. Alam**, J. van Dijk and M. Rounsevell (2015) Land-use change as the result of rural land exchange: an agent-based simulation model, *Landscape Ecology*, vol. 30, no. 2, pp. 273-286

J-13. C. Brown, D. Murray-Rust, J. van Vliet, **S.J. Alam**, Peter H. Verburg and Mark Rounsevell (2014) Experiments in globalisation, food security and land use decision making, *Plos One*, vol. 9, no. 12

J-12. D. Murray-Rust, C. Brown, J. van Vliet, **S.J. Alam**, D.T. Robinson, P.H. Verburg and M. Rounsevell (2014) Combining Agent Functional Types, capitals and services to model land use dynamics, *Environmental Modelling & Software*, vol. 59, pp. 187-201

J-11. E.O. Romero-Severson, **S.J. Alam**, E.M. Volz and J.S. Koopman (2013) Acute-stage transmission of HIV: Effect of volatile contact rates, *Epidemiology*, vol. 24, no.4, pp. 516-521

J-10. **S.J. Alam**, X. Zhang, E.O. Romero-Severson, C.J. Henry, L. Zhong, E.M. Volz, B.G. Brenner and J.S. Koopman (2013) Detectable Signals of Episodic Risk Effects on Acute HIV Transmission: Strategies for Analyzing Transmission Systems Using Genetic Data, *Epidemics*, vol. 5, no. 1, pp. 44-55

J-9. E.O. Romero-Severson, **S.J. Alam**, E.M. Volz and J.S. Koopman (2012) Heterogeneity in number and type of sexual contacts in a gay urban cohort, *Statistical Communications in Infectious Diseases*, vol. 4, no. 1. <http://dx.doi.org/10.1515/1948-4690.1042>

J-8. X. Zhang, L. Zhong, E.O. Romero-Severson, **S.J. Alam**, C.J. Henry, E.M. Volz and J.S. Koopman (2012) Episodic HIV risk behavior can greatly amplify HIV prevalence and the fraction of transmissions from acute HIV infection, *Statistical Communications in Infectious Diseases*, vol. 4, no. 1. <http://dx.doi.org/10.1515/1948-4690.1041>

J-7. **S.J. Alam**, E.O. Romero-Severson, J-H. Kim, G. Emond and J.S. Koopman (2010) Dynamic sex roles among men who have sex with men and transmissions from primary HIV infection, *Epidemiology*, vol. 21, no. 5, pp. 669-675

J-6. **S.J. Alam**, A. Geller, R. Meyer and B. Werth (2010) Modelling Contextualized Reasoning in Complex Societies with “Endorsements”, *Journal of Artificial Societies and Social Simulation*, vol. 13, no. 4 <http://jasss.soc.surrey.ac.uk/13/4/6.html>

J-5. A. Geller and **S.J. Alam** (2010) A Socio-Political and –Cultural Model of the War in Afghanistan, *International Studies Review*, vol. 12, no. 1, pp. 8-30

J-4. **S.J. Alam** and B. Werth (2008) Studying Emergence of Clusters in a Bus Passengers' Seating Preference Model, *Transportation Research Part C: Emerging Technologies*, vol. 16, no. 5, pp. 593-614

J-3. **S.J. Alam**, R. Meyer, G. Ziervogel and S. Moss (2007) The Impact of HIV/AIDS in the Context of Socioeconomic Stressors: an Evidence-Driven Approach, *Journal of Artificial Societies and Social Simulation*, vol. 10, no. 4 <http://jasss.soc.surrey.ac.uk/10/4/7.html>

J-2. **S.J. Alam**, F. Hillebrandt and M. Schillo (2005) Sociological Implications of Gift Exchange in Multiagent Systems, *Journal of Artificial Societies and Social Simulation*, vol. 8, no. 3 <http://jasss.soc.surrey.ac.uk/8/3/5.html>

J-1. S.A. Kamal, S. Firdous and **S.J. Alam** (2004) An Investigation of the Growth Profiles of Pakistani Children, *International Journal of Biology and Biotechnology*, vol. 1, no. 4, KU Press, Karachi pp. 709-717 (ISSN: 1810-2719)

Book chapters and referred conference papers

C-20. **S.J. Alam**, M. Bakker, E. Karali, J. van Dijk and M. Rounsevell (2014) Simulating the Expansion of Large-sized Farms in Rural Netherlands: A Land Exchange Model, in S.J. Alam and H.V.D. Parunak (Eds.) *Multi-Agent-Based Simulation XIV*, LNAI 8235, Springer-Verlag pp. 115-128

C-19. C. Brown, D. Murray-Rust, J. van Vliet, **S.J. Alam**, P.H. Verburg and M. Rounsevell (2014) Globalisation, regionalisation and behavioural responses of land use agents, in S.J. Alam and H.V.D. Parunak (Eds.) *Multi-Agent-Based Simulation XIV*, LNAI 8235, Springer-Verlag pp. 101-114

C-18. S.M.A. Abbas, **S.J. Alam** and B. Edmonds (2014) Measuring and Validating Social Network Simulations, in K. Bogumił and G. Koloch (Eds.) *Advances in Social Simulation*, Advances in Intelligent Systems and Computing Series, vol. 229, Springer-Verlag pp. 1-12 (Part-A)

C-17. **S.J. Alam**, S.M.A. Abbas and B. Edmonds (2014) Validating Simulated Networks: Some Lessons Learned, in S.J. Alam and H.V.D. Parunak (Eds.) *Multi-Agent-Based Simulation XIV*, LNAI 8235, Springer-Verlag pp. (Part-B)

C-16. L. Hoffer and **S.J. Alam** (2013) “Copping” in Heroin Markets: The Hidden Information Costs of Indirect Sales and Why They Matter, in A.M. Greenberg, W.G. Kennedy and N.D. Bos (Eds.) *Social Computing, Behavioral-Cultural Modeling and Prediction*, LNCS 7812, Springer-Verlag pp. 83-92

C-15. **S.J. Alam** and A. Geller (2012) Networks in Agent-Based Social Simulation, in A. Heppenstall, A. Crooks, L. See and M. Batty (Eds.) *Agent-based Models of Geographical Systems*, Springer pp.199-216

C-14. S. Alvi and **S.J. Alam** (2012) Understanding social interaction dynamics in Second Life: An agent-based simulation approach, in M. Safar and K.A. Mahdi (Eds.) *Social Networking and Community Behavior Modeling: Qualitative and Quantitative Measures*, IGI Pub. pp. 85-102

C-13. A. Geller, **S.J. Alam** and S.M.M. Rizi (2011) Article entry for ‘Afghanistan’, in G. Barnett (Ed.) *Encyclopedia of Social Networks*, SAGE Pub. pp. 9-11

C-12. **S.J. Alam** and R. Meyer (2010) Comparing Two Sexual Mixing Schemes for Modelling the Spread of HIV/AIDS, in K. Takadama, G. Deffuant and C. Cioffi-Rivella (Eds.) *Simulating Interacting Agents and Social Phenomena*, Agent-based Social Systems Series vol. 7, Springer pp. 63-74

C-11. **S.J. Alam**, A. Geller, R. Meyer and B. Werth (2009) Social Connectedness in Tzintzuntzan: Notes on Contextualized Reasoning in Complex Systems, in B. Edmonds and N. Gilbert (Eds.) *Proceedings of the Sixth European Social Simulation Association Conference (ESSA'09)*, Surrey, UK (Electronic Proceedings ISBN: 1844690172)

C-10. **S.J. Alam** (2009) Exploring the Role of State Grants and Pensions in Rural South Africa: An Agent-based Model, in *Proceedings of the Twentieth IASTED International Conference on Modelling and Simulation (MS'09)*, Banff, Canada, Acta Press pp. 308-313

C-9. **S.J. Alam**, R. Meyer and E. Norling (2009) A Model for HIV Spread in a South African Village, in N. David and J.S. Sichman (Eds.) *Multi-Agent-Based Simulation IX*, LNAI 5269, Springer-Verlag pp. 33-45

C-8. **S.J. Alam**, B. Edmonds and R. Meyer (2009) Identifying Structural Changes in Networks Generated from Agent-based Social Simulation Models, in A. Ghose, G. Governatori and R. Sadananda (Eds.) *Agent Computing and Multi-Agent Systems*, LNAI 5044, Springer-Verlag pp. 298-307

C-7. S.J. Alam and Ruth Meyer (2008) Structural Changes in Agent-based Simulations: Representing HIV/AIDS Impact on Social Networks, in T. Friemel (Ed.) *Why Context Matters: Applications of Social Network Analysis*, VS-Verlag pp. 175-191

C-6. S.J. Alam and B. Werth (2007) A Bus Passengers' Seating Preference Model, in *Papers from the AAAI Fall Symposium: Emergent Agents and Socialities: Social and Organizational Aspects of Intelligence*, Fairfax VA, USA, AAAI Technical Report: FS-07-04, AAAI Press pp.3-10

C-5. S.J. Alam, R. Meyer and E. Norling (2007) Agent-based Model of Impact of Socioeconomic Stressors: A Dynamic Network Perspective, in *Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'07)*, Hawaii, USA, IFAAMAS pp. 1079-1081

C-4. S.J. Alam, R. Meyer and G. Ziervogel (2006) Modelling Socio-Economic Impact of HIV/AIDS in a South African Village, in *Proceedings of the First World Congress on Social Simulation (WCSS'06)*, Kyoto, Japan, vol. 2, pp. 281-288

C-3. S.J. Alam (2005) Understanding the Complexity of an Eastern Family Network, article in *Journal of Independent Studies and Research*, vol. 3, no. 2, SZABIST, Karachi pp. 31-37

C-2. S.J. Alam (2002) Evaluating Teachers' Performance Using Transformation, in *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, Tunis*, vol. 2, IEEE Press pp. 416-421

C-1. S.J. Alam (2002) Teachers' Evaluation with Transformation, in *Proceedings of the IEEE Students Conference, ISCON 2002 on Emerging Technologies (Cat. No.02EX581)*, OPSTech Lahore, vol. 1, IEEE Xplore pp. 8-11

Refereed abstracts and posters

A-22. Reidsma, P., Bakker, M., Kanellopoulos, A., **Alam S.J.**, Paas, W., Kros, J., de Vries, W. (2015) Impacts of climate and socio-economic change at farm and landscape level in the Netherlands: climate smart agriculture?, *3rd Global Science Conference on Climate-Smart Agriculture (CSA 2015)*, Montpellier, France [[Abstract](#)]

A-21. C. Brown, J. van Vliet, D. Murray-Rust, **S.J. Alam**, P.H. Verburg and M.D. Rounsevell (2014) Incorporating human decision-making, institutions and ecosystem services in a model of European land use change, *Second GLP Open Science Meeting*, Berlin, Germany (Abstract no. 00382)

A-20. M. Bakker, J. van Dijk and **S.J. Alam** (2013) Simulating Land-Use Change using an Agent-Based Land Transaction Model, *American Geophysical Union Fall Meeting*, San Francisco, CA (Abstract no. GC41D-03)

A-19. D. Murray-Rust, C. Brown, **S.J. Alam**, J. van Vliet, P.H. Verburg and M. Rounsevell (2013) An agent-based model of European land use dynamics, *Ninth European Social Simulation Association Conference (ESSA 2013)*, Warsaw, Poland

A-18. L. Hoffer and **S.J. Alam** (2013) Modeling an Economic Inequality Countermeasure in the Heroin Market & its Consequences on Trading Partnerships, *Annual Meeting of the Society for Economic Anthropology (SEA 2013)*, St. Louis, MO

A-17. J.S. Koopman, **S.J. Alam**, B.G. Brenner, E.O. Romero-Severson, X. Zhang, L. Zhong (2011) Detectable signals of episodic risk effects on acute HIV transmission, in *Third International Conference on Infectious Disease Dynamics (Epidemics3)*, Boston, MA

A-16. J.S. Koopman, E.M. Volz, **S.J. Alam**, E.O. Romero-Severson, B.G. Brenner, M.A. Wainberg (2011) Needed steps for choosing pre-exposure ARV use policies, *Sixth International AIDS Society Conference on Pathogenesis and Treatment*, Rome, Italy (Abstract No. CDC123) [[Abstract](#)]

A-15. **S.J. Alam** and S. Alvi (2011) A prototype agent-based model of mobilization in socio-political

movements, poster at the *Fourth Annual Political Networks Conference*, Ann Arbor, MI

A-14. E.M. Volz, E.O. Romero-Severson, **S.J. Alam**, D. Stephens, B. Brenner, M. Wainberg, M. Roger, J.S. Koopman (2010) Phylodynamic modeling of the HIV epidemic among MSM in Montreal and implications for intervention and control, *XVIII International AIDS Conference*, Vienna, Austria (Abstract no. THAA0204) [[Abstract](#)]

A-13. G. Emond, **S.J. Alam**, J.S. Koopman, E.O. Romero-Severson and J-H Kim (2010) Les rôles versatiles comme facteur potentiel de propagation primaire du VIH entre HARSAN (The versatile roles as potential source of spread of HIV among primary MSM), poster at the *Fifth French Conference on HIV/AIDS*, Casablanca, Morocco

A-12. E. Volz, E.O. Romero-Severson, **S.J. Alam**, D.A. Stephens, B.G. Brenner, M.A. Wainberg, M. Roger and J.S. Koopman (2009) Complex epidemiological dynamics generate phylogenetic clustering of HIV in Montreal, in *Second International Conference on Infectious Disease Dynamics (Epidemics2)*, Athens, Greece [[Link](#)]

A-11. E.O. Romero-Severson, E. Volz, **S.J. Alam**, D.A. Stephens, B.G. Brenner, M.A. Wainberg, D. Castor, M. Roger and J.S. Koopman (2009) Comparative phylodynamics and episodic high-risk sex in Montreal and New York City, in *Second International Conference on Infectious Disease Dynamics (Epidemics2)*, Athens, Greece

A-10. A. Geller and **S.J. Alam** (2009) Modeling the Conflict in Afghanistan, paper at the *International Studies Association's 50th Convention: Exploring the Past Anticipating the Future*, New York, USA [[Link](#)]

A-9. **S.J. Alam** and R. Meyer (2007) Analyzing Network Evolution in Agent-based Models using Subgraph Characteristics, in *Proceedings of the Third UK Social Networks Conference*, London, United Kingdom, pp. 86-88 [[Link](#)]

A-8. **S.J. Alam** and R. Meyer (2006) Finding Suitable Analysis Techniques for Social Networks Generated from Social Processes, in *Social Network Analysis: Second Forum on Advances and Empirical Applications*, Leeds, United Kingdom [[CPM Link](#)]

A-7. **S.J. Alam** (2005) Gift Exchange (Social Delegation) in a Market-based Multiagent System, poster presentation at the SRC, co-located at the SIGCSE 2005, St. Louis, USA

A-6. **S.J. Alam** and F. Hillebrandt (2004) Studying Gift Exchange in a Multiagent System, poster at *Jahrestreffen des DFG-Schwerpunktprogramms "Sozionik"*, Seeon, Germany

A-5. S.A. Kamal, **S.J. Alam** and S. Firdous (2002) The NGDS Pilot Project: Dealing with a complex system, poster at the *International Conference on Complexity Sciences and Health Care*, The Aga Khan University, Karachi, Pakistan

A-4. S.A. Kamal, **S.J. Alam** and S. Firdous (2002) An Influence Graph for the Physical Examination of Children, poster at the *International Conference on Complexity Sciences and Health Care*, The Aga Khan University, Karachi, Pakistan

A-3. S.A. Kamal, **S.J. Alam** and S. Firdous (2002) The NGDS Pilot Project: A software to analyze growth of a child, in the *National Telemedicine Conference*, Ministry of Science & Technology (MOST), Islamabad, Pakistan

A-2. S.A. Kamal, **S.J. Alam** and S. Firdous (2002) A Precedence Graph for the Physical Examination of Children, in the *National Telemedicine Conference*, Ministry of Science & Technology (MOST), Islamabad, Pakistan

A-1. Syed Arif Kamal, **S.J. Alam** and S. Firdous (2002) The NGDS Pilot Project: Aiming at the Future of Pakistan, the Aga Khan University National Sciences Research Symposium: Early Childhood Care and

Development, Karachi, Pakistan, abstract # 13, p.26 (presentation CD compiled by the organizers)

Theses

T-3. Shah Jamal Alam (2008) *Understanding Social Complexity in the Context of HIV/AIDS: A Case Study in Rural South Africa*, Doctoral Thesis, Centre for Policy Modelling, Manchester Metropolitan University Business School, Manchester, United Kingdom <http://cfpm.org/cpmrep208.html>

T-2. Shah Jamal Alam (2004) *Ramification of Gift-Exchange Mechanism in a Multiagent System Environment*, Master's Thesis, Faculty of Computer Science, Saarland University, Saarbrücken, Germany

T-1. Shah Jamal Alam (2001) *Teachers' Evaluation using Genetic Algorithms*, BS Thesis, Department of Computer Science, University of Karachi, Karachi, Pakistan

Current and past activities

Co-organizer (with Jasper van Vliet) Symposium "Agent-based models of landscape scale socio-ecological systems", at the [IALE 2013](#) European Congress, September 9-12 2013, Manchester, UK

Co-organizer (with H. Van Dyke Parunak) Fourteenth International Workshop on Multi-Agent-Based Simulation ([MABS 2013](#)), co-located with [AAMAS 2013](#), May 5-6 2013, Saint Paul MN, USA

Member Editorial Review Board, *International Journal of Agent Technologies and Systems (IJATS)*, IGI Publications (January 2008 – present) – <http://www.igi-global.com/ijats>

Assistant Editor, *Complex Adaptive Systems Modelling (CASM)*, Springer (July 2014 – present) <http://www.casmodeling.com/>

Reviewer for *Advances in Complex Systems*; *Complex Adaptive Systems Modeling*; *Int'l Journal of Agent Technologies and Systems*; *Journal of Artificial Societies and Social Simulation*; *Journal of Environmental Psychology*; *Int'l Journal of Social Network Mining*; *Medical & Biological Engineering & Computing*; *Physical Letters A*; *PLoS One*; *Simulation: Transactions of the Society for Modeling and Simulation International*; *Simulation Modeling Practice and Theory*; *Social Science Research*; *Structure and Infrastructure Engineering*; *Sustainability*; *Theoretical Population Biology*

Program/scientific committee member for the following conferences: 'Behavior Representation in Modeling and Simulation' (BRIMS [2014](#); [2015](#)); 'Epistemological Perspectives on Simulation' (EPOS [2012](#)); European Social Simulation Association (ESSA [2009](#); [2013](#); [2014](#); [2015](#)); Multi-Agent-Based Simulation (MABS [2010](#); [2011](#); [2013](#); [2014](#); [2015](#)); and Winter Simulation Conference (WSC [2012](#); [2013](#))

Additional reviewer for the following conferences: ASNA ([2007](#)), BRIMS ([2012](#); [2013](#)), CSSA ([2012](#)); IASTED MS ([2009](#)); and IEEE Social Computing ([2009](#))

Reviewer for Safar, M. (Ed.) *Social Networking and Community Behavior Modeling: Qualitative and Quantitative Measures* (IGI Pub); Friemel, T. (Ed.) *Why Context Matters* (VS-Verlag)

Past editor of the European Social Simulation Association (ESSA) Newsletter with Bogdan Werth (November 2006 – September 2008) and with Nick Gotts (December 2009 – March 2011)

Member Technical Committee for 'Modelling and Simulation', International Association of Science and Technology for Development (IASTED) (March 2009 – present)

Member of European Complex Systems Society Committees on Publication, Gender and Developing Countries (September 2008- August 2009)

Member Editorial Advisory Board, Goran Trajkovski and Samuel G. Collins (Eds.), *Handbook of Research on Agent-Based Societies: Social and Cultural Interactions*, IGI Publishers, 2009

Member Scientific and Technical Committee on 'Natural and Applied Sciences', World Academy of Science, Engineering and Technology (WASET) (April 2009 – present)

Tutorial *Social Networks*: course session organized by Richard Taylor and Gindo Tampubolon. This was part of the *ESRC Research Methods* and the *Oxford Spring School*, Oxford, UK, July 2006

Tutorial on 'Network Analysis with UCINET for ABM of Industrial Districts and Economic Geography' (organized by Dr Richard Taylor), at the *Third ESSA Conference*, Koblenz, Germany, September 2005
Organized 'University of Karachi Stall' at the *ITCN Asia 2002*, Karachi, Pakistan, August 2002

Judge, ProQuest'02 (Inter-University Programming & Quiz Contest), Association for Computing Machinery (ACM) Student Chapter, University of Karachi, Karachi, Pakistan, July 2002

Senior Organizer, Inauguration Ceremony of DCS-Logistix and Software Exhibition, University of Karachi, Karachi, Pakistan, October 2001

Founding Chairman, ACM Student Chapter, University of Karachi, Karachi, Pakistan (2001)

Training/Research schools

'GPU Programming Workshop', EPCC, University of Edinburgh, Edinburgh, UK (August 28-30)

Postdoctoral Short-Course on College Teaching in Science and Engineering (STEM), Center for Research on Learning and Technology, University of Michigan, Ann Arbor (September – November 2011)

'Proven Algorithmic Techniques for Many-core Processors', Ann Arbor MI, USA, supported by the University of Michigan, Ann Arbor (August 2–6, 2010)

Complexity Spring School, hosted by the Dept. of Electronics and Computer Science, University of Southampton, United Kingdom, supported by Engineering and Physical Sciences Research Council, UK (March-April 2006)

ESRC Research Methods, Oxford, United Kingdom, supported by Economic and Social Sciences Research Council, UK (July 2006)

ZUMA Social Simulation Course, hosted by University of Koblenz-Landau, supported by DFKI GmbH (August 2003)

Awards/Scholarships/Travel Grants

PhD Studentship, funded under European Union NEST Programme (April 2005 – March 2008)

RIBM, MMU grant to participate in the PRIMA 2007 conference, Bangkok (November 2007)

EU FP6 travel grant to participate in the CAVES Project trip to Sekhukhune District, Limpopo, South Africa, hosted by the University of Cape Town (April 2007)

EU FP6 travel grant for participation at the bi-annual CAVES Project workshops held in Wroclaw (September 2005), Aberdeen (March 2006), Oxford (September 2006) and Laxenburg (March 2007)

Engineering and Physical Sciences Research Council (EPSRC) grant for participation at the NANIA Project Summer Meetings, under the EPSRC Novel Computing Initiative, Lake District-Cambria (August 2006)

Tokyo University '21st Century COE Program: Creation of Agent-Based Social Systems Sciences' travel grant to participate in the WCSS'06 Conference, Kyoto, Japan (August 2006)

Association for Computing Machinery (ACM) travel grant for participation in the ACM SRC'05, St. Louis, USA (February 2005)

German Research Foundation (DFG) grant for participation in the Annual Sozionik Conference, Seeon, Germany (June – July 2004)

German Research Foundation (DFG) grant for participation in the Annual Sozionik Conference, Seeon, Germany (June 2003)

Honorable Mention for the 2002 Upsilon Pi Epsilon (UPE) / Association for Computing Machinery (ACM) award for academic excellence for students in the computing discipline (2002)

Recipient of ACM Chapters Excellence Award (Best Community Service) on behalf of ACM Student Chapter University of Karachi – selected from the ACM student chapters worldwide (2001)

Recognition of Service Award by Association for Computing Machinery (USA) for serving as chairperson of the ACM Student Chapter University of Karachi (2001)

Event shield and 'Year of Quaid-e-Azam Certificate' awarded by the Vice-Chancellor, University of Karachi, at the Inauguration Ceremony of DCS-Logistix and Software Exhibition, Karachi, Pakistan (October 2001)

Talks/presentations/seminars

Shah Jamal Alam, "Understanding Societies using Simulation", International Conference on Challenges of Transition in Social Sciences, University of Karachi, Karachi, Pakistan, December 2014

Shah Jamal Alam et al. "Simulating Land-Use Change in Rural Netherlands using an Agent-Based Land Transaction Model", Land Use Research Group Seminar, University of Edinburgh, Edinburgh, UK, January 2014

Shah Jamal Alam et al. "A land exchange agent-based model for the Baakse Beek region in Netherlands", IALE EU Congress Symposium 'Agent-based models of landscape scale socio-ecological systems', Manchester, UK, September 2013

Shah Jamal Alam, "The RULEX Agent-based Model", talk at the Annual CARE Consortium Workshop, Wageningen University, Wageningen, Netherlands, October 2012

Shah Jamal Alam, "Modelers are from Manchester: Case study teams are from Edinburgh", presentation at the Informal Workshop on: Using Qualitative Evidence to inform Behavioural Rules suitable for an agent-based simulation (Qual2Rule), Manchester, UK, September 2012

Shah Jamal Alam, "Simulating Complex Social Systems", talk at the Undergraduate Research Opportunities Program (UROP) seminar, University of Michigan, Ann Arbor, August 2010

Shah Jamal Alam, "Theoretical and Evidence-driven Models of HIV Transmission", talk at the Center for Social Complexity, Krasnow Institute for Advanced Studies, George Mason University, Fairfax VA, August 2009

Shah Jamal Alam, "Modelling HIV/AIDS Spread in Sub-Saharan Africa", talk at the Manchester Complexity Seminar, University of Manchester, Manchester, UK, April 2008.

Shah Jamal Alam, "Detecting Structures using Probabilistic Mixture Models: Work by Newman and Leicht", talk at the Manchester Complexity Seminar, University of Manchester, Manchester, United Kingdom, October 2007.

Shah Jamal Alam, "Comparing Changes in Networks during a Simulation Run", presentation at the

Workshop: Ucinet/ Netdraw Applications in social science, innovation & sustainability studies, Brunel University Business School, London, United Kingdom, June 2007.

Shah Jamal Alam, “Bus Passengers’ Seating Preference: A (Simple) Agent-based Model”, talk at the Manchester Complexity Seminar, Manchester, United Kingdom, May 2007.

Shah Jamal Alam and Ruth Meyer, “Network Signatures in Agent-based Social Simulation Models”, presentation at the bi-annual workshop of the CAVES Project meeting, International Institute of Applied Systems Analysis (IIASA), Schloss Laxenburg, Austria, March 2007.

Shah Jamal Alam, “Motif Analysis in Complex Networks – I”, talk at the Manchester Complexity Seminar, Manchester, United Kingdom, October 2006.

Shah Jamal Alam, “Finding suitable metrics for networks that could result from social processes”, talk at the Manchester Complexity Seminars, Manchester, United Kingdom, May 2006.

Lee-Ann Small, Claudia Zehnpfund and Shah Jamal Alam, “Social Networks Analysis: Theory and Modelling”, presentation at the bi-annual workshop of the CAVES Project meeting, Aberdeen, United Kingdom, March 2006.

Shah Jamal Alam and Scott Moss, “Dynamic Social Network Analysis and Statistical Signatures”, presentation at the bi-annual workshop of the CAVES Project meeting, Uniwersytet Wroclawski, Wroclaw, Poland, September 2005.

Shah Jamal Alam, “Agent-Based Social Simulation”, talk at the ACM Student Chapter, University of Karachi, Karachi, Pakistan, July 2005.

Shah Jamal Alam, “A contribution to the field of Socionics”, invited talk at the Intelligent Learning Environments Group, German Research Center for Artificial Intelligence (DFKI), Saarbrücken, Germany, September 2004.

Shah Jamal Alam, “Social-Net Project of the Everyday Computing Lab, Georgia Tech (USA)”, in partial fulfillment of Computer Science Seminar: Instrumented Spaces, Saarland University, Saarbrücken, Germany, June 2003.

Shah Jamal Alam, “Geometric Fit of Protein and Ligands”, in partial fulfillment of Bioinformatics Seminar: Role of Protein-Protein and DNA Interactions, Saarland University, Saarbrücken, Germany, November 2002.

Shah Jamal Alam, “In memory of Dijkstra”, presentation at the ACM Student Chapter, University of Karachi, Karachi, Pakistan, February 2002.

Syed Arif Kamal, Syed Firdous and Shah Jamal Alam, “The NGDS Pilot Project: Aiming at the Future of Pakistan”, presentation at the Aga Khan University Nationals Sciences Research Symposium: Early Childhood Care and Development, The Aga Khan University, Karachi, Pakistan, October 2001.

Memberships (Past and current)

International Association of Landscape Ecology – UK (IALE-UK)
Computational Modeling in Social and Ecological Sciences (CoMSES Net)
European Complex Systems Society (ECSS), <http://ecss.csregistry.org>
European Social Simulation Association (ESSA), <http://www.essa.eu.org>
Association for Computing Machinery (ACM), <http://www.acm.org>