

Curriculum Vitae

TARIQ ZAMAN

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Institute of Social Informatics and Technological Innovation-
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BIODATA.

Tariq Zaman is a Ph.D. candidate currently pursuing a degree in the Faculty of Computer Science and Information Technology, Universiti Malaysia Sarawak (UNIMAS). He is working as a research officer with the Institute of Social Informatics and Technological Innovation-Centre of Excellence for Rural Informatics (ISITI-CoERI)UNIMAS. Mr. Zamanhas 11 years of experience as development practitioner, teacher and researcher with marginalized groups in society such as indigenous communities, women, and religious minorities. Previously, he taught various computer science and I.T subjects and worked for ActionAid International, Youth Engagement Service, Human Rights Commission Pakistan and Christian Study Centre Pakistan. His research interests include Indigenous Knowledge Management (Governance), Indigenous Communities, Rural ICT, Community Informatics and ICT4D. He currently has 20 research publications, conference, proceedings, presentations and invited talks.

Areas of Specialisation

Knowledge Management
Rural Informatics
Community Informatics

Areas of Research

Indigenous knowledge management
Community-based participatory design

EDUCATION AND ACADEMIC QUALIFICATIONS

- Ph. D., Univeristi Malaysia Sarawak, Malaysia (**waiting for examination**)
- M.S. (Computer Sciences), University of Science and Technology Bannu, Pakistan, 2009.
- Master of Science in Computer Science, Gomal University, Pakistan, 2003.
- LL, B. International Islamic University Islamabad, Pakistan, 2002.
- Post Graduate Professional Diploma in Information Technology, Skill Development Council, Peshawar, Pakistan, 2004.
- Bachelor of Computer Science, Gomal University, Pakistan, 1999.

EXPERIENCE.

Research

- Research Officer, Institute of Social Informatics and Technological Innovations-Center of Excellence for Rural Informatics (ISITI-CoERI) Universiti Malaysia Sarawak (UNIMAS) since August 2009.

Teaching

- Lecturer, Global Institute of Computer Sciences, Bannu, Pakistan May 2004-2007.
Courses Taught to Diploma Level: C/C++, Data Structure, System Analysis and Design, E-Commerce, Programming using Java, Visual Basic, Introduction to Operating Systems and HTML.

Work

- Policy Officer, Policy, Advocacy and Research Unit ActionAid International, Pakistan January-July 2009.
- Field Officer, Youth Engagement Services, Pakistan 2007-2008.
- ProgrammeCoordinator of Diploma in Information Technology, Global Institute of Computer Sciences, Bannu, Pakistan May 2004-2007.

RESEARCH PAPERS, PUBLICATIONS AND TALKS

Journal Papers

- **Zaman, T.,** Kulathuramaiyer, N., & Yeo, A.W.(2013). Knowledge Management in Nonprofit Settings: A case study of indigenous knowledge management. *International Journal of Public Administration in the Digital Age (IJPADA)* (accepted)
- Yeo, A.W., **Zaman, T.,** & Kulathuramaiyer, N. (2013). Indigenous Knowledge Management in the Kelabit community in Eastern Malaysia: insights and reflections for contemporary KM design. *International Journal of Sociotechnology and Knowledge Development (IJSKD)* (accepted)
- **Zaman, T.,** Yeo, A. W., & Kulathuramaiyer, N. (2013). Augmenting Indigenous Knowledge Management with Information and Communication Technology. *International Journal of Services Technology and Management*, 19(1/2/3), 12.
- Yeo, A. W., Hazis, F. S., **Zaman, T.,** Songan, P., & Hamid, K. A. (2011). Telecentre Replication Initiative in Borneo, Malaysia: The CoERI Experience. *The Electronic Journal of Information Systems in Developing Countries*, 50(3), 1-15.
- **Zaman, T.,** Kulathuramaiyer, N., & Yeo, A. W. (2011). Balanced Scorecard for performance measurement and strategic planning of indigenous knowledge management. *Knowledge Management for Development Journal*, 7(3), 317-326. doi: 10.1080/19474199.2011.652147

Book Chapters

- **Zaman, T.,** Yeo, A. W., & Kulathuramaiyer, N. (2013). Modeling Indigenous Knowledge Creation as a Living System. In N. J. Bidwell & H. Winschiers-Theophilus (Eds.), *Indigenous Knowledge Technology Dialogues: Embracing Indigenous Knowledge in a New Technology Design Paradigm* (accepted)

- **Zaman, T.**, Yeo, A. W., & Kulathuramaiyer, N. (2014). Harnessing Mobile Technology for Penans Indigenous Botanical Knowledge Management. In D. L. E., M. Hendriks & S. Grant (Eds.), *Indigenous Lives in the Mobile Age*: University of Technology, Sydney(accepted).

Conference Papers (Equivalent of Journal): Refereed Full Paper

- Winschier-Theophilus, H., **Zaman, T.**, Rodil, K., Jensen, K., Yeo, A.W. (2013). Mobile Technologies for Preservation of Indigenous Knowledge in Rural Communities. Proceedings of the Conference on IT in Asia (CITA'13), Kuching (Indexed in IEEEExplore).
- Siew, S., Yeo, A.W., & **Zaman, T.** (2013). Participatory Action Research in Software Development: Indigenous Knowledge Management System Case Study. Proceedings of Human Computer Interaction International (21-26 July, Las Vegas, US) (Springer, Lecture Notes in Computer Science, ISI Indexed, Indexed in ACM Digital Library).
- Winschier-Theophilus, H., Winschiers-Goagoses, N., Rodil, K., Blake, E., **Zaman, T.**, & Koch Kapuire, G., (2013). Moving away from Erindi-roukambe: Transferability of a rural community-based co-design. IFIP 12th International Conference on Social Implications of Computers in Developing Countries, Ocho Rios Jamaica.
- **Zaman, T.**, Yeo, A.W., & Kulathuramaiyer, N., (2012). Tools and Strategies for managing Penans' Indigenous Botanical Knowledge. Borneo Research Council Conference 2012: Identities, Cultures and Environments 25-27 June 2012, Universiti Brunei Darussalam, Brunei.
- **Zaman, T.**, Yeo, A.W., & Kulathuramaiyer, N., (2011). Indigenous Knowledge Governance Framework (IKGF): A holistic model for indigenous knowledge management. Second International Conference on User Science and Engineering (i-USER 2011) Doctoral Consortium. Universiti Teknologi MARA, Malaysia and IEEE Computer Society (Malaysia Section), Page 10-13.
- **Zaman, T.**, Yeo, A.W., & Kulathuramaiyer, N., (2011). Harnessing Community's creative expression and indigenous wisdom to create value. Tacit-Implicit-Explicit (TIE) Knowledge Creation Model. Proceedings of IKTC2011: Embracing Indigenous Knowledge Systems in a New Technology Design Paradigm. Nicola J Bidwell and Heike Winschiers-Theophilus (Ed.). Page 157.
- Nazri, K.M., **Zaman, T.**, & Rosita M.O., (2011). Balanced Scorecard approach for benchmarking rural ICT projects. 3rd eBario Knowledge Fair 2011. Bario Sarawak: IFIP and Universiti Malaysia Sarawak, Malaysia.
- **Zaman, T.**, Narayanan, K., & Yeo, A. W. (2010). Formulating Strategic Directions for Indigenous Knowledge Management System. 2nd Semantic Technology and Knowledge Engineering Conference (STAKE 2010). Kuching: MIMOSBERHAD and University Malaysia Sarawak (UNIMAS).
- Yeo, A.W., Hazi, F. S., **Zaman, T.**, Songan, P., & Hamid, K. A. (2010). Telecentre Replication Initiative in Borneo Malaysia: The CoERI Experience. In W. C. Jacques Steyn (Ed.), 4th International IDIA Development Informatics Conference. Ruimsig: School of Information Technology, Monash South Africa, 144 Peter Road, Ruimsig, South Africa (<http://www.developmentinformatics.org/conferences/2010/papers/yeo.html>).

Conference Proceedings

- **Zaman, T.,** Narayanan, K., & Yeo, A. W. (2010).Balanced Scorecard approach for benchmarking rural ICT projects.Young ICT Researchers Colloquium 2010.Sarawak: Universiti Malaysia Sarawak, Malaysia.
- **Zaman, T.,** Narayanan, K., & Yeo, A. W. (2010).Performance measurement of Indigenous Knowledge Management.Young ICT Researchers Colloquium 2010.Sarawak: Universiti Malaysia Sarawak, Malaysia.

Invited Talks

- **Zaman, T.,** Yeo, A.W., &Kulathuramaiyer, N., 2011. Indigenous Knowledge Governance Framework: A holistic model for indigenous knowledge management,First Computer Human interaction, Culture and Design (CHICD) Workshop13-14th February 2012, Universii Malaysia Sarawak.
- **Zaman, T.,** Yeo, A.W., &Kulathuramaiyer, N., 2011. Indigenous Knowledge Governance Framework: A holistic model for indigenous knowledge management ELOKA Workshop "Data Management and Local Knowledge: Building a Network to Support Community-Based Research and Monitoring" University of Colorado at Boulder, U.S.A.

Conference Posters.

- **Zaman, T.,** Yeo, A.W., &Kulathuramaiyer, N., (2011).Indigenous Knowledge Governance Framework (IKGF): A holistic model for indigenous knowledge management.In Conference on IT in Asia 2011.Kuching: Faculty of Computer Sciences and Information Technology, Universiti Malaysia Sarawak.

Other Publications

- **Zaman, T.,** 2010.*KhudaiKhidmatgar* or “Servants of God”. South Asian Composite Heritage, Vol.1 Issue 17-18. Institute of Social Democracy, New Delhi India.
- **Zaman, T.,** Yeo, A.W., &Kulathuramaiyer, N., (2012).eTORO: Tools andStrategies for Managing Penans’ Indigenous Botanical Knowledge. Outreach: UNIMAS research bulletin, 8 (1) pp. 22.

RESEARCH FUNDING AND ACTIVITIES

Funding

Title	Names of Researchers	Year Start	Year End	Quantum	Sources of Funding
eToro: Indigenous Botanical Knowledge Management System of Penans	Dr Alvin Yeo Wee DrNarayanan Kulathuramaiyer Tariq Zaman	2013	2014	AUD 3000.00	ISIF and APNIC
MAXIS Community Broadband Centre: Reporting, Marketing, and ICT Enrichment Training Programme	Dr Alvin Yeo Wee, DrJacey-Lynn Minoi, DrPolineBala, Tariq Zaman, Teh Lee Na, Gary LohCheeWyai, EnixGoh, Koh Ping Ng	2013	2015	414,000.0 0	Contract Research

Pusat Internet 1 Malaysia Assessment	DrJacey-Lynn Minoi, Tariq Zaman, Teh Lee Na, Gary LohCheeWyai, EnixGoh, Koh Ping Ng.	2013	2013	50,186.00	Contract Research
Maxis connected Village	Dr Alvin Yeo Wee, DrJacey-Lynn Minoi, DrCheahWaiShiang, DrFitriSurayaMohamad, Tariq Zaman, Teh Lee Na, Gary LohCheeWyai, EnixGoh, Koh Ping Ng.	2013	2015	29,226.48	Contract Research
NgerabiteLamai : ICTs Supporting Socio-economic Transformation	Dr Alvin Yeo Wee, DrBali Ranaivo-Malançon, SuhailaSae Tariq Zaman				National Professor's Council (NPC) under the Community Outreach Programme
Developing an Intergenerational Indigenous-Knowledge Management Systems for the Singai-Bidayuhs, Sarawak.		2013	2014		
Indigenous Knowledge Governance Framework	Alvin Yeo Wee (L), Narayanan Kulathuramaiyer, Tariq Zaman	2011	2014	RM 50,000.00	DPI, UNIMAS
Initiative for e-commerce capacity-building of Penans in Long Lamai Sarawak	Alvin Yeo Wee (L), Narayanan Kulathuramaiyer, Tariq Zaman	2012	2014	RM 115,000.00	KTP, MOHE.
Indigenous Technological Innovation in Malaysia: Reducing vulnerability and marginalization among Malaysia	Alvin Yeo Wee (L), Tariq Zaman	2011	2012	RM 230,000.00	IFAD

Indigenous Peoples					
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Conference Proceedings (editor)

- Tan., D., Yok L., S., and Zaman, T. (2010). Young ICT Researchers Colloquium 2010. Sarawak: Universiti Malaysia Sarawak, Malaysia.

Journal Guest Editor

- CI-Journal 2013: Journal of Community Informatics, SPECIAL ISSUE ON Indigenous and Local Knowledge and Community Informatics.

Paper Reviewer

- International Journal of Metadata, Semantics and Ontologies (2013). SPECIAL ISSUE ON Ontology Paradigms in Software Programming Languages (SaqibSaeed and Rene Robin Ed.)
- International Journal of Information Technology and Management (2013). SPECIAL ISSUE ON Technology Design for ICT4D Initiatives: Challenges and Opportunities (SaqibSaeed, Christopher G. Reddick and Sultan Aljahdali Ed.)
- IJICTHD 2011: International Journal of Information Communication Technologies and Human Development, SPECIAL ISSUE ON Technology Design for E-Government: Issues and Implications (S. Saeed and Z. Mahmood Ed.)

Seminars/Conference/Workshop attended/Presented

Date	Seminars/Conference/Workshop	Venue	Status	Funding
2-4 July 2013	The Conference on Information Technology in Asia (CITA) 2013	Kuching	Presenter	UNIMAS
1 July 2013	Telecentre Sustainability The Conference on Information Technology in Asia (CITA) 2013	Kuching	Participant	UNIMAS
25-27 June, 2012	Borneo Research Council Conference 2012	UBD Brunei	Presenter	UNIMAS
21 June, 2012	International workshop on Malaysian and Indonesian Language Engineering (MALINDO 2012)	UNIMAS	Participant	UNIMAS
13-14th February, 2012	First Computer Human interaction, Culture and Design (CHICD) Workshop	UNIMAS	Presenter	UNIMAS
29 November, 2011	Second International Conference on User Science and Engineering (i-USER 2011)	Shah Alam, Selangor	Presenter	UNIMAS

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25 November, 2011	Workshop: From Researcher to CEO	UNIMAS	Participant	UNIMAS
16-18 November, 2011	Third eBario Knowledge Fair	Bario, Sarawak	Presenter	UNIMAS
15-17 November, 2011	ELOKA Workshop, U.S.A.	University of Colorado at Boulder	Invited Talk (Skype Presentation)	University of Colorado
2-4 November, 2011	IKTC2011: Embracing Indigenous Knowledge Systems in a New Technology Design Paradigm.	Windhoek, Namibia.	Presenter	Polytechnic of Namibia
27 September, 2011	Workshop: Research Practices and Ethics in Science for Non-Medical Researchers	UNIMAS	Participant	UNIMAS
11 July, 2011	International Conference on IT in Asia (CITA)	Kuching	Presenter	UNIMAS
28-30 July, 2010	2nd Semantic Technology And Knowledge Engineering Conference (STAKE 2010).	Kuching	Presenter	UNIMAS
12 May, 2010	Young ICT Researchers Colloquium 2010	UNIMAS	Presenter	UNIMAS
4-6 November 2009.	Second eBario Knowledge Fair	Bario, Sarawak	Participant	UNIMAS
15-16, May 2009	Team Building	Nathiagali	Participant	ActionAid
03-08 August, 2008	Right based approach in Programming-Rural	Murree	Participant	CWS P/A
19-24 th November 2007	Training of Trainers-Rural	Murree	Participant	CWS/PA
1-7 September 2007	Planning, Monitoring & Reporting Training	Murree	Participant	CWS P/A
12-17 th July 2007	Facilitators in Dialogue for Peaceful Change	CSC, Rawalpindi	Participant	European Union
02-07 June	Office Management-Rural	Murree	Participant	CWS/PA

2007				
09-14, April 2007	Computer Network and Communication	UST, Bannu	Participa nt	Higher Education Commissi on Pakistan
20-27, June 2006	Report Writing Training-Rural	Murree	Participa nt	CWS-P/A

AWARDS AND SCHOLARSHIPS

- 2013 ISIF Asia Award under the category "Innovation on access provision".
- ISIF and APNIC travel grant to attend Internet Governance Forum 2013 in Bali, Indonesia.
- PhD project "Charting Indigenous Knowledge in Malaysia" is featured by Asia Research News 2013 (Page 38)
- Best Telecentre Innovation Award for eBario Innovation Village in the Spark13 conference in Granada, Spain on May 29, 2013.
- Gold Medal in UNIMAS R&D Expo 2013 for the project "eTORO: Formalising Indigenous Knowledge Governance Framework".
- Merit Award in APICTA 2012 for the project "Ngerabite Lamai: Penans Employing ICT for Rural Socio-Economic Transformation" in category "Best of E-Inclusion & E-Community".
- Silver Medal in UNIMAS R&D Expo 2012 for the project "Indigenous Technological Innovation in Malaysia: Reducing vulnerability and marginalisation among Malaysia's indigenous peoples".
- Postgraduate Scholarship, *Zamalah* Universiti Malaysia Sarawak (August 2010 to July 2012).
- Polytechnic of Namibia, Namibia travel grant for Indigenous Knowledge Technology Conference 2011 held in Windhoek Namibia.
- Open Knowledge Foundation, England and Wales travel grant for Open Knowledge Conference 2011 Berlin, Germany.
- University of Colorado at Boulder, U.S.A travel grant for ELOKA Workshop 2011 "Data Management and Local Knowledge: Building a Network to Support Community-Based Research and Monitoring" held at the University of Colorado Boulder, UCB.
- ActionAid International travel grant for the Development Sector Exposure Visit to India 2008.
- Institute of Social Democracy travel grant for Composite Heritage for Peace Workshop Bangladesh 2009.
- Christian Study Centre travel grant for Composite Heritage for Peace Workshop Bangladesh 2008.
- Christian Study Centre travel grant for Composite Heritage for Peace Workshop Nepal 2007.
- Principal of the Year Award 2005-06 from Intel Education Teach to the Future Program, Pakistan 2007.

PROFESSIONAL COURSES

- Social Capacity Building for Arsenic Mitigation Measure in Pakistan (Certification) 2007, Urban Development and Environmental Research Centre Lahore.
- Short Course on Organizational Development, 2006, Church World Service Pakistan/Afghanistan.
- Providing Emergency Support and Advice (Certification), 2005, University of Wisconsin –432 Lake Street Madison, Wisconsin 53706, USA

MEMBERSHIP OF PROFESSIONAL BODIES

- Member, International Association of Engineers (IAENG) Hong Kong, Membership Number: 126741.
- Member, anzMLearn, Centre for Human Centred Technology Design Research (HCTD) at the University of Technology, Sydney (UTS) since 2012.
- Country Representative for Malaysia, Young Professionals in Local Development: International Network since 2012.
- Member, International Association of Computer Science and Information Technology (IACSIT). Singapore, Registration No.: 53122865K.
- Member, IPID The International Network for Post Graduate Students in the Area of ICT4D, Denmark since 2011.
- Member, KM4Dev Research Group since 2010.
- Global Member, The Internet Society (ISOC), Member ID: 73696.
- Member, Community Informatics Research Network (CIRN), Canada.
- Member, IFIP - International Federation for Information Processing, Social Implications of Computers in Developing Countries (W.G 9.4)
- Member, Telecentre.org since 2008.
- Certified Trainer Dialogue for Peaceful Change, Netherland since 2008.
- Certified Trainer Composite Heritage for Peace Program, Institute of Social Democracy India since 2007.

ADMINISTRATIVE DUTIES AND OTHER RESPONSIBILITIES

Organizing Committees in Conferences

- Member Organizing Committee, International workshop on Malaysian and Indonesian Language Engineering (MALINDO 2012) (www.malindo.org)
- Student Volunteer in Conference on IT in Asia 2011, Kuching organized by Faculty of Computer Sciences and Information Technology, Universiti Malaysia Sarawak.
- Member Organizing Committee, Third eBario Knowledge Fair: 16-18 November 2011.
- Member Organizing Committee, Second eBario Knowledge Fair: 4-6 November 2009.
- Member Organizing Committee, Young ICT Researchers Colloquium 2010 Universiti Malaysia Sarawak, Malaysia

University Level

- Editor and Administrator of ISITI-CoERI's Institute Repository UNIMAS.

Faculty Level.

- Recreation Officer, Post Graduate Society Faculty of Computer Sciences and I.TUNIMAS 2011-2012.

REPRESENTATION AND ACHIEVEMENTS IN SPORTS

- Captain N-W.F.P. Provincial U-16 and U-14 Hockey teams (1989-1991).
- Sponsorship from National Bank Limited Pakistan for One year (1996).