

Journal Papers

1. Ahmed, N., Kutay, C., Lazem, S., Wong-Villacres, M., Abad, C., Collazos, C., Elbassuoni, S., Iftekhhar, L., Islam, F., Singh, D., Tahsin Mayeesha, T., Ujakpamabeifam, M., **Zaman, T.** & Bidwell, N. (2023) Making ethics at home in Global CS Education: Provoking stories from the Souths. *ACM Journal on Computing and Sustainable Societies*.
2. **Zaman, T.** (2023) Lost in Afghanistan: Can the world take ICT4D seriously. *Communications of the ACM Association for Computing Machinery*
3. Dunaway, M., Allred, S., Somchanhmvong, K., A. & **Zaman, T.** (2022) A pragmatic approach to ethical research collaboration with Black, Indigenous, or People of Color communities: A case study with the Penan People of Long Lamai, Malaysia. *Environment and Planning F: Philosophy, Theory, Models, Methods and Practice*, SAGE Publications. <https://doi.org/10.1177/26349825221132>
4. Rötönen, E., Wanschiers-Theophilus, H., **Zaman, T.** Goagoses, N., & Tan, D. Y.W. (2022). Creating smart connected learning ecosystems: A hybrid model for design-based learning. *Interaction Design and Architecture (s) Journal (IxD&A)*. <https://doi.org/10.55612/s-5002-052-005>
5. van Gevelt, T., **Zaman, T.**, Chan, N.K., Bennett, M. (2022). How do individual perceptions of climate anomalies affect collective action? Evidence from an artefactual field experiment in Malaysian Borneo. *World Development Sustainability*. <https://doi.org/10.1016/j.wds.2022.100031>
6. Allred, S., Harris, R., **Zaman, T.**, Kulathuramaiyer, N., & Jengan, G. (2022) Cultural resilience in the face of globalization: Lessons from the Penan of Borneo. *Human Ecology*. doi: 10.1007/s10745-022-00319-3
7. Wanschiers-Theophilus, H., Goagoses, N., Rötönen, E., & **Zaman, T.** (2021). [Pushing political, cultural, and geographical boundaries: Distributed co-design with children from Namibia, Malaysia and Finland](#). *International Journal of Child-Computer Interaction*, 100439
8. **Zaman, T.** (2020). [“Wait and See”: Uses and gratifications of ICTs in an indigenous community](#). *International Journal of Public Administration in the Digital Age (IJPADA)* 7 (4), 35-50
9. van Gevelt, T., **Zaman, T.**, George, F., Bennett, M. M., Fam, S. D., & Kim, J. E. (2020). [End-user perceptions of success and failure: Narratives from a natural laboratory of rural electrification projects in Malaysian Borneo](#). *Energy for Sustainable Development*, 59, 189-198.
10. Gevelt, T.V., Chali, H., Bennett, M., Fam, S.D., George, F., Kulathuramaiyer, N., Low, L., **Zaman, T.** (2019). [Indigenous perceptions of climate anomalies in](#)

[Malaysian Borneo](#), *Global Environmental Change*, 58 (2019).

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11. Winschiers-Goagoses, N., Winschier-Theophilus, H. & **Zaman, T.** (2019). [Community protocols for researchers: Using sketches to communicate interaction guidelines](#), *AI & Society* (2019) <https://doi.org/10.1007/s00146-019-00914-x>
12. Reitsma, L., Light, A., **Zaman, T.**, & Rodgers, P. (2019). [A respectful design framework: Incorporating indigenous knowledge in the design process](#), *The Design Journal* 22 (sup1), 1555-1570
13. Winschier-Theophilus, H., **Zaman, T.**, & Stanley, C. (2019). [A classification of cultural engagements in community technology design: Introducing a transcultural approach](#), *AI & Society* 34(3), 419-435
14. **Zaman, T.** & Falak, H. (2018). [Framing indigenous knowledge in digital context: technologies, methods and tools](#), *International Journal of End-User Computing and Development* 7(2) 36-51
15. Gevelt, T.V., Holzeis, C.C., George, F, & **Zaman, T.** (2017). [Indigenous community preferences for electricity services: Evidence from a choice experiment in Sarawak, Malaysia](#), *Energy Policy* 108 (2017), 102–110
16. Allred, S., Harris, R., **Zaman, T.**, Amy, S., & Jengan, G. (2016). [Using visual charting to explore indigenous community resilience in Bario and Long Lamai, Sarawak, Malaysia](#). *Journal of Development Communication*, 23 (2)
17. **Zaman, T.**, Yeo, A.W. & Jengan, G. (2016). [Designing digital solutions for preserving Penan sign language: A reflective study](#). *Advances in Human-Computer Interaction*, 2016, Article ID 4174795, 9 pages, doi:10.1155/2016/4174795
18. **Zaman, T.** & Winschier-Theophilus, H. (2015). [Penan's Oroo Short Message Signs \(PO-SMS\): Co-design of a digital jungle sign language application](#). J. Abascal et al. (Eds.): *INTERACT 2015, Part II, LNCS 9297*, 489–504, 2015. DOI: 10.1007/978-3-319-22668-2_38 (IFIP Brian Shackel and IFIP IDID Awards winner publication)
19. **Zaman, T.**, Kulathuramaiyer, N., Yeo, A.W. & Falak, H. (2015). [Modelling indigenous knowledge creation as a living system](#). *International Journal of Knowledge Management Studies (IJKMS)*, 6(2), 136-150
20. **Zaman, T.**, Kulathuramaiyer, N., & Yeo, A.W. (2014). [Knowledge management in nonprofit settings: A case study of indigenous knowledge management](#). *International Journal of Public Administration in the Digital Age (IJPADA)*, 1(4), 44-52

21. 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)*, 5(1), 23-36. doi: 10.4018/jskd.2013010103
22. **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
23. Siew, S.-T., Yeo, A. W., & **Zaman, T.** (2013). [Participatory action research in software development: indigenous knowledge management systems case study](#). *Human-Computer Interaction. Human-Centred Design Approaches, Methods, Tools, and Environments. Lecture Notes in Computer Science, 8004*, 470-479
24. Yeo, A. W., Hazis, F. S., **Zaman, T.**, Songan, P., & Hamid, K. A. (2012). [Telecentre replication initiative in Borneo, Malaysia: the CoERI experience](#). *The Electronic Journal of Information Systems in Developing Countries*, 50(3), 1-15
25. **Zaman, T.**, Kulathuramaiyer, N., & Yeo, A. W. (2012). [Balanced Scorecard for performance measurement and strategic planning of indigenous knowledge management](#). *Knowledge Management for Development Journal*, 7(3), 317-326
26. **Zaman, T.**, Adrian L.H.Y., & Cheng, H.Y. (2023). Scaffolding Undergraduate Students' Ethical Cyber Behaviour with Philosophy and Theory, *Cybersecurity Issues and Challenges for Business and FinTech Applications*. (pp. 112-129). USA: Information Science Reference (an imprint of IGI Global)
27. **Zaman, T.**, Wyai, G.L., & Falak, S. (2021). eTourism and Cultural Resilience: Exploring Opportunities for Indigenous Communities in an Extremely Precarious State, *Pandemic, Lockdown and Digital Transformation: Challenges and Opportunities for Public Administration, NGOs and Businesses* Switzerland: Springer Nature, doi: 10.1007/978-3-030-86274-9
28. **Zaman, T.**, & Falak, H. (2018). Insights and Challenges in Digitalization of a Secret Sign Language of the Penan on Borneo Island, *Digitisation of Culture: Namibian and International Perspectives* (pp. 65-72) Singapore: Springer
29. Chamunorwa, M.B., Winschiers-Theophilus, H., & **Zaman, T.** (2018). An Intermediary Database node in the Namibian Communities Indigenous Knowledge Management System, *Digitisation of Culture: Namibian and International Perspectives* (pp. 99-117) Singapore: Springer
30. Falak, H., & **Zaman, T.** (2016). Mitigating Ethno-Cultural Differences: Ethical Guidelines for ICT Development in an Indigenous Community, *Design Solutions*

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31. **Zaman, T.**, Yeo, A. W., & Kulathuramaiyer, N. (2015). Indigenous Knowledge Governance Framework: Scaffolding Joint ICT Developments in Long Lamai, Malaysia. In N. J. Bidwell & H. Winschiers-Theophilus (Eds.), *At the Intersection of Indigenous and Traditional Knowledge and Technology Design* (pp. 171-185) Santa Rosa, California: Informing Science Press
32. **Zaman, T.**, Yeo, A. W., & Kulathuramaiyer, N. (2015). eToro: Appropriating ICTs for the Management of Penans' Indigenous Botanical Knowledge. In D. L. E., M. Hendriks & S. Grant (Eds.), *Indigenous People and Mobile Technologies: Routledge Studies in New Media and Cyberculture* (pp. 253-264) New York: Imprint Routledge
33. **Zaman, T.**, Yeo, A. W., & Kulathuramaiyer, N. (2015). From Knowledge Management to Knowledge Governance: A System-centred Methodology for Designing Indigenous Knowledge Management System. *Human Factors in Software Development and Design* (pp. 237-248). Information Science Reference (an imprint of IGI Global), USA
34. **Zaman, T.**, & Yeo, A. W. (2014). Ensuring Participatory Design Through Free, Prior and Informed Consent: A Tale of Indigenous Knowledge Management System. *User-Centric Technology Design for Nonprofit and Civic Engagements* (pp. 41-54). Springer International Publishing Switzerland
35. Kreuger, B., **Zaman, T.** (in review) Exploring Indigenous Knowledge through Virtual Reality: A Co-Design Approach with the Penan Community of Long Lamai. INTERACT 2023, University of york, UK
36. **Zaman, T.**, Kreuger, B., Michael, V., Pitah, T., & and Diana (in review). Ingá Telikit: A Virtual Reality Game for Learning Penan's Hunting Techniques. INTERACT 2023, University of york, UK
37. Talhouk, R., Alabdulqader, E., Kutay, C., Awori, K., Wong-Villacrés, M., Kumar, N., **Zaman, T.**, Wulf, V., Almeraj, Z., & Lazem, S., (2023). Re-articulating North-South Collaborations in HCI. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (CHI EA '23), April 23–28, 2023, Hamburg, Germany. ACM, New York, NY, USA, 4 pages. <https://doi.org/10.1145/3544549.3583752>
38. Kutay, C., **Zaman, T.**, Bidwell, N., & Le Ferrand, E. (2022). Co-development is the next step: Participatory Design from First Nations Values. In the OzCHI '22: Proceedings of the 34th Australian Conference on Human-Computer Interaction,

**Conference Papers
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Canberra, Australia. November 2022 Pages 356–359, ACM, New York, NY, USA
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39. Winschiers-Theophilus, H., **Zaman, T.**, Maasz, D., Muashekele, C., Mbinge, U., Jengan, G., Stanley, C., & Hamid, K.A. (2022). *Indigenous Knowledge Fairs: a new approach to pluralistic knowledge dissemination in HCI* in the 12th Nordic Conference on Human-Computer Interaction, Aarhus Denmark. ACM, New York, NY, USA
40. **Zaman, T.**, Wyai, G.L., Hamid, K.A. Ting, H.Y. & Reitsma, L. (2022). *PDC Place Malaysia: Emerging Spaces for ICT4D and PD Communities* in the ACM 17th Participatory Design Conference. Newcastle upon Tyne, United Kingdom, Pages 281–283. <https://doi.org/10.1145/3537797.3537883>
41. Wyai, G.L., **Zaman, T.**, & Hamid, K. A. (2022). *Unleashing Indigenous Iban Values For Collective Technology Design* in the ACM 17th Participatory Design Conference. Newcastle upon Tyne, United Kingdom, Pages 39–46. <https://doi.org/10.1145/3537797.3537806>
42. **Zaman, T.**, Lim, D., Makosa, I., Goagoses, N., Itenge, H., Rötönen, E., Tan, D.Y.W., Mutelo, S., & Winschiers-Theophilus, H., (2022). *A Children-Created Virtual Learning Space Station* in the ACM International Conference on Interactive Media Experience (IMX) 2022, Aveiro Portugal. ACM, New York, NY, USA, Pages 241–244. <https://doi.org/10.1145/3505284.3532817>
43. Goagoses, N., Rötönen, E., Winschiers-Theophilus, H., **Zaman, T.**, Itenge, H., & Tan, D.Y.W. (2022). *Facilitation Techniques and Tools for Online Project-Based Learning with Primary School Students in the International Conference on Education and New Development (END) 2022*, Madeira Island, Portugal
44. Winschiers-Theophilus, H., Goagoses, N., **Zaman, T.**, Itenge, H., Rötönen, E., Tan, D.Y.W. & Smith, R. C. (2022). *Facilitation Tools and Techniques for Distributed Online Co-design with Children* in the 12th Nordic Conference on Human-Computer Interaction, Aarhus Denmark.
45. Kambunga A. P., Smith, R. C., Winschiers-Theophilus, H., Pinto, N., Abril, X. B., Boffi, L., Dzisi, E., **Zaman, T.**, Ibinarriaga, D. H., Chahine, A., Jensen, L. L., & Vold, V. (2021). *Pluriversal Design: A Virtual Decolonising Exhibition* in the Communities & Technologies Conference 2021, Seattle, USA (Best Poster Award Winner)
46. Smith, R. C., Winschiers-Theophilus, H., Loi, D., Kambunga, A. P., Abreu de Paula, R., Samuel, M. M. & **Zaman, T.** (2021). *Decolonizing Design Practices: Towards Pluriversality*. Paper presented at the Annual ACM Conference on Human factors in Computing Systems (CHI 2021) ACM.

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48. Sieck, J., & **Zaman, T.** (2017). *Closing the Distance: Mixed and Augmented Reality, Tangibles and Indigenous Culture Preservation*. Paper presented at the International Conference on Information and Communication Technologies and Development, Lahore, Pakistan
49. Goh, C. H., Kulathuramaiyer, N., & **Zaman, T.** (2017). *Riding Waves of Change: A Review of Personas Research Landscape Based on the Three Waves of HCI*. Paper presented at the International Conference on Social Implications of Computers in Developing Countries (pp. 605-616). Springer International Publishing Switzerland
50. **Zaman, T.**, Winschiers-Theophilus, H., George, F., Wee, A. Y., Falak, H., & Goagoses, N. (2016). *Using Sketches to Communicate Interaction Protocols of an Indigenous Community*. Paper presented at the 14th Participatory Design Conference: Short Papers, Interactive Exhibitions, Workshops-Volume 2. Aarhus, Denmark
51. Winschier-Theophilus, H., **Zaman, T.**, & Yeo, A.W. (2015). *Reducing “white elephant” ICT4D projects: A Community-Researcher Engagement*. Paper presented at the Seventh International Conference on Communities and Technologies (C&T 2015), Limerick Ireland
52. Plimmer, B., He, L., **Zaman, T.**, Karunanayaka, K., Yeo, A.W., Jengan, G., Blagojevic, R., & Yi-Luen, E.D. (2015). *New Interaction Tools For Preserving an Old Language*. Paper presented at the 33rd Annual ACM Conference on Human factors in Computing Systems (CHI) ACM, Korea. (SIGCHI Best of CHI Honorable Mention Award : among the top 5% of all submission to CHI 2015)
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57. **Zaman, T.**, Ngo, J.S.K., Phoa, J., & Yeo, A.W (2016). *eCommerce and Tourism: Leveraging on University-Community Collaboration for Socio-economic Development of Indigenous Communities in Sarawak*. Paper presented at the 5th International Applied Business Research Conference 17-18 May 2016, Islamabad
58. **Zaman, T.**, Yeo, A.W., & Kulathuramaiyer, N., (2013). *Introducing Indigenous Knowledge Governance into ICT-based Indigenous Knowledge Management System*. Paper presented at the IPID 8th International Annual Symposium, 7-10 December, Cape Town (Best presentation award)

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61. **Zaman, T.**, Yeo, A. W., & Kulathuramaiyer, N. (2011). *Tacit-Implicit and Explicit Model of Knowledge Creation*. Paper presented at the Indigenous Knowledge Technology Conference 2011 (IKTC2011): Embracing Indigenous Knowledge Systems in a New Technology Design Paradigm, Windhoek, Namibia
62. Nazri, K.M., **Zaman, T.**, & Rosita M.O., (2011). *Balanced Scorecard approach for benchmarking rural ICT projects*. Paper presented at the 3rd eBario Knowledge Fair 2011. Bario Sarawak: IFIP and Universiti Malaysia Sarawak, Malaysia

63. **Zaman, T.**, Narayanan, K., & Yeo, A. W. (2010). *Formulating Strategic Directions for Indigenous Knowledge Management System*. Paper presented at the 2nd Semantic Technology and Knowledge Engineering Conference (STAKE 2010). Kuching: MIMOS BERHAD and Universiti Malaysia Sarawak
64. Yeo, A.W., Hazis, 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.), Paper presented at the 4th International IDIA Development Informatics Conference, Monash South Africa, 144 Peter Road, Ruimsig, South Africa

Non-refereed Papers

65. Hossain, A. D., Othman, R. M., **Zaman, T.**, Ramli, F., & Wilfred, J. F. (2017). Designing Service Learning into Technopreneurship and Product Development. *Insight: Teaching and Learning Bulletin*, 30, 4-6
66. Othman, R. M., Hossain, A. D., **Zaman, T.**, Ramli, F., & Wilfred, J. F. (2017). Implementing Service Learning in Technopreneurship & Product Development course. *Insight: Teaching and Learning Bulletin*, 30, 7-11
67. **Zaman, T.**, Othman, R. M., Hossain, A. D., Ramli, F., & Wilfred, J. F. (2017). Sketching Engagement Experiences: SKETION, a Tool for Community Engagement and Reflections in Service Learning. *Insight: Teaching and Learning Bulletin*, 30, 41-43
68. Zen, K., **Zaman, T.**, Juan, S. F., & Tarmizi, S., (2017). Service Learning Experience at Schools and the Impact to Students and the Community. *Insight: Teaching and Learning Bulletin*, 30, 44-48
69. Zen, K., **Zaman, T.**, Juan, S. F., & Tarmizi, S., (2017). FCSIT First Effort on Engaging Service Learning in Schools. *Insight: Teaching and Learning Bulletin*, 30, 49-51
70. Zen, K., **Zaman, T.**, Juan, S. F., & Tarmizi, S., (2017). FCSIT Service Learning for School Community: Putting All Resources Together. *Insight: Teaching and Learning Bulletin*, 30, 52-54
71. Zen, K., **Zaman, T.**, Juan, S. F., & Tarmizi, S., (2017). Pre-visits Prior to the Implementation of Service Learning Programme in School Communities. *Insight: Teaching and Learning Bulletin*, 30, 55-58
72. Zen, K., **Zaman, T.**, Juan, S. F., & Tarmizi, S., (2017). FCSIT Service Learning for School Community: Dos and Dents. *Insight: Teaching and Learning Bulletin*, 30, 59-61
73. Zen, K., **Zaman, T.**, Juan, S. F., & Tarmizi, S., (2017). Reflection on Service Learning for School Community. *Insight: Teaching and Learning Bulletin*, 30, 62-67

74. Jengan, G., Allred, S., Harris, R., **Zaman, T.**, & Somchanhmavong, AK. (2016) *Partnership: Cross Institutional Collaboration and Mutual Learning*. Paper presented at the 4th International Service-Learning Summit, 23-25 Oct., 2016, Kansas State University, USA
75. Falak, H., **Zaman, T.**, Yeo, A.W., & Jengan, G.(2015) *Guidelines for Researchers, an Indigenous Community's Perspective*. Paper presented at the IPID 10th International Annual Symposium, 15-18 May, 2015, Nanyang Technological University, Singapore
76. Osman, F., Yeo, A.W., **Zaman, T.**, Ismail, M.J., Lin, Y.K., Phoa, J., Sheng, C.W. (2013). *Initiative for E-commerce Capacity-building of Penans in Long Lamai Sarawak*. Paper presented at the First National Conference of Knowledge Transfer Program (KTP), 21-23 August 2013, Universiti Sains Malaysia, Penang
77. **Zaman, T.**, Narayanan, K., & Yeo, A. W. (2010). *Balanced Scorecard Approach for Benchmarking Rural ICT Projects*. Paper presented at the Young ICT Researchers Colloquium 2010. Sarawak: Universiti Malaysia Sarawak, Malaysia
78. **Zaman, T.**, Narayanan, K., & Yeo, A. W. (2010). *Performance Measurement of Indigenous Knowledge Management*. Paper presented at the Young ICT Researchers Colloquium 2010. Sarawak: Universiti Malaysia Sarawak, Malaysia
79. **Zaman, T.** (2019). *Who moved my cheese? Mitigating the socio-economic challenges of indigenous life in Rainforests of Borneo*. Paper presented at the 2nd AMBR National Research Conference, 25-26th April, 2019, University of Malakand, Khyber Pakhtunkhwa Pakistan
80. **Zaman, T.** (2018). *Libraries and Telecentres: Match or Mismatch*. Paper presented at the 1st National Library and Information Science Conference, 27-29th Mar. 2018, Khushal Khan Khattak University Karak, Khyber Pakhtunkhwa Pakistan
81. Yeo, A.W., **Zaman, T.**, Phoa, J., & Mohd-Nor, R. (2014). *Experience in Responsible ICT-For-Development Research in Malaysian Borneo*. Paper presented at the 6th International Borneo Business Conference, 20-21st Aug. 2014, University Malaysia Sabah and Universiti Malaysia Sarawak, Kuching, Malaysia
82. **Zaman, T.**, Winschier-Theophilus, H., Jengan, G., & Yeo, A.W. (2014). *Signs, Concepts and Representation: Experiences in Documentation of Penan Indigenous Knowledge*. Paper presented at the 4th Regional Conference On Local Knowledge, 12-13th Oct. 2014, Universiti Sains Malaysia, Kuching, Malaysia
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**Conference
Poster/Abstracts**

Nomadic Penans in the Rainforest. Paper presented at the 4th eBario Knowledge Fair 2013. Bario Sarawak: Universiti Malaysia Sarawak, Kuching, Malaysia

84. **Zaman, T.**, Yeo, A.W., & Kulathuramaiyer, N., (2011). *Indigenous Knowledge Governance Framework (IKGF): a Holistic Model for Indigenous Knowledge Management*. In Conference on Information Technology in Asia 2011. Kuching: Faculty of Computer Science and Information Technology, Universiti Malaysia Sarawak, Kuching Malaysia
85. **Zaman, T.**, (2016). It is not a Village but People: Long Lamai, a Case Study of a Smart Village, The Smart Villages Programme, Cambridge (<http://e4sv.org/not-village-people-long-lamai-case-study-smart-village/>)
86. **Zaman, T.**, (2014). One Design with Two Labels — Peshawari Chappal vs. Robert Sandal. Appropriation (?) of the Month features, The Intellectual Property Issues in Cultural Heritage (IPinCH) Simon Fraser University, British Columbia, Canada V5A1S6 (<http://goo.gl/Djixpw>)
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88. **Zaman, T.**, Yeo, A.W., & Kulathuramaiyer, N., (2012). eTORO: Tools and Strategies for Managing Penans’ Indigenous Botanical Knowledge. *Outreach: UNIMAS Research Bulletin*, 8(1) pp. 22

Other Publications