Lighton Phiri

Department of Library and Information Science
University of Zambia
Great East Road Campus
P.O. Box 32379
Lusaka 10101, ZAMBIA

Email: lighton.phiri@unza.zm
Phone: +260 (96) 1352662
ORCID iD: orcid.org/0000-0003-3582-9866
Web: http://lis.unza.zm/~lightonphiri

Education

2018   Ph.D. Computer Science (**expected**), University of Cape Town, South Africa
Thesis: Investigating the Impact of Organised Orchestration of Teaching
Advisors: Assoc Prof. Hussein Suleman and Prof. Dr. Christoph Meinel
2013   M.Sc. Computer Science, University of Cape Town, South Africa
Dissertation: Simple Digital Libraries
Supervisor: Assoc Prof. Hussein Suleman
2007   B.Sc. Computer Science, University of Zambia, Zambia

Professional Experience

2017 – present   Lecturer, Department of Library and Information Science, University of Zambia
2015 – 2017   Teaching Assistant, Department of Computer Science, University of Cape Town
2015 – 2015   Temp Lecturer, Department of Computer Science, University of Cape Town
2013 – 2014   Research Assistant, Department of Computer Science, University of Cape Town
2013 – 2013   Part-time Lecturer, Zambia Centre for Accountancy Studies
2011 – 2013   Content Curator, Scholarly Communication in Africa Programme
2009 – 2011   Database Administrator, Airtel Zambia
2008 – 2009   Business Intelligence Analyst, Zain Zambia
2007 – 2008   Business Intelligence Analyst, Celtel Zambia

Teaching Experience

- Taught a course on Introduction to Python Programming, University of Cape Town.

- Taught a course on Python for Engineers, University of Cape Town.

- Teaching assistant and instructor in Computer Science 1010 and Computer Science 1011, University of Cape Town.

- Teaching assistant and instructor in a course on Raspberry Pi Python Programming, University of Cape Town.

- Teaching assistant and instructor in a course on Arduino Microcontroller Programming Using Python, University of Cape Town.

Awards and Grants

2014   Hasso Plattner Institute Doctoral Fellowship, University of Cape Town
2003   Ministry of Education Undergraduate Busary, University of Zambia

List of Publications

A. Book Chapters

1. **Phiri, L.**, and Suleman, H. Managing cultural heritage: information systems architecture. In: Cultural Heritage Information: Access and Management. Ed. by Ruthven, I. & Chowdhury, G. Facet Publishing, United Kingdom, 2015. Chap. 6, 113–134. ISBN: 978-1783302949.

B. Papers in Journals

1. **Phiri, L.**, Meinel, C., and Suleman, H. Streamlined Orchestration: An Orchestration Workbench Framework for Effective Teaching. Computers & Education, 95 (2016), 231–238. DOI: `10.1016/j.compedu.2016.01.011`

2. **Phiri, L.**, and Suleman, H. In Search of Simplicity: Redesigning the Digital Bleek and Lloyd. DESIDOC Journal of Library & Information Technology, 32,4 (2012), 306–312. DOI: `10.14429/djlit.32.4.2524`

C. Papers in Proceedings of Peer-Reviewed Conferences

1. **Phiri, L.**, Meinel, C., and Suleman, H. Peer Tutoring Orchestration: Streamlined Technology-driven Orchestration for Peer Tutoring. In: Proceedings of the 9th International Conference on Computer Supported Education. Vol. 1. CSEDU '17. INSTICC. ScitePress, 2017, 434–441. ISBN: 978-989-758-239-4. DOI: `10.5220/0006339104340441`

2. **Phiri, L.**, Meinel, C., and Suleman, H. Ad hoc vs. Organised Orchestration: A Comparative Analysis of Technology-driven Orchestration Approaches. In: Proceedings of the IEEE 8th International Conference on Technology for Education. Ed. by Kumar, V., Murthy, S., and Kinshuk. T4E '16. IEEE Computer Society, Washington, DC, USA, 2016, 200–203. DOI: `10.1109/T4E.2016.049`

3. Poulo, L., **Phiri, L.**, and Suleman, H. Fine-grained Scalability of Digital Library Services in the Cloud. In: Proceedings of the 2014 Southern African Institute for Computer Scientist and Information Technologists. SAICSIT' 14. ACM Press, New York, NY, USA, 2014, 157–165. DOI: `10.1145/2664591.2664611`

4. **Phiri, L.**, and Suleman, H. Flexible Design for Simple Digital Library Tools and Services. In: Proceedings of the 2013 Southern African Institute for Computer Scientists and Information Technologists. Ed. by Machanick, P., and Tsietsi, M. SAICSIT' 13. ACM Press, New York, NY, USA, 2013, 160–169. DOI: `10.1145/2513456.2513485`

5. **Phiri, L.**, Williams, K., Robinson, M., Hammar, S., and Suleman, H. Bonolo: A General Digital Library System for File-Based Collections. In: Proceedings of the 14th International Conference on Asia-Pacific Digital Libraries. Ed. by Chen, H.-H., and Chowdhury, G. ICADL '12. Springer-Verlag, Berlin, Heidelberg, 2012, 49–58. DOI: `10.1007/978-3-642-34752-8_6`

D. Technical Reports

1. Baird, M. J., **Phiri, L.**, and Suleman, H. Automatic workflow management for spatial heritage data. Tech. rep. University of Cape Town, 2014, URL: `http://pubs.cs.uct.ac.za/archive/00000962`

2. **Phiri, L.**, and Suleman, H. Benchmarking a file-based digital library system repository architecture. Tech. rep. University of Cape Town, 2013, URL: `http://pubs.cs.uct.ac.za/archive/00000888`

E. Theses and Dissertations

1. **Phiri, L**. Investigating the impact of organised orchestration on teaching. Ph.D. Thesis. University of Cape Town, 2018, *Under examination*

2. **Phiri, L**. Simple digital libraries. M.Sc. Dissertation. University of Cape Town, 2013, URL: `http://hdl.handle.net/11427/6638`

F. Posters

1. **Phiri, L**., Meinel, C., and Suleman, H. Streamlining technology-driven orchestration in formal learning spaces. Poster session presented at the 2016 Computer Science Evening, University of Cape Town, Cape Town, South Africa, 2016.

2. **Phiri, L**., Meinel, C., and Suleman, H. Streamlined technology-driven orchestration. Poster session presented at the Teaching & Learning Conference 2015 Deferred, University of Cape Town, Cape Town, South Africa, 2016.

3. **Phiri, L**., Meinel, C., & Suleman, H. Streamlined technology-driven orchestration. Poster session presented at the 10th Symposium on Future Trends in Service-Oriented Computing, Potsdam, Germany, 2015.

4. **Phiri, L**., & Suleman, H. A lightweight digital library framework. Poster session presented at the 2011 Southern African Institute for Computer Scientist and Information Technologists Annual Conference, Cape Town, South Africa, 2011.

Contributed Presentations

- **Phiri, L**., Suleman, H., and Meinel C. Empirically Evaluating Streamlined technology-driven orchestration (oral presentation), HPI Spring Workshop, Cape Town, South Africa, June 2017.

- **Phiri, L**., Meinel C., and Suleman, H. Peer tutoring orchestration: Streamlined Technology-driven Orchestration for Peer Tutoring (oral presentation), 9th International Conference on Computer Supported Education, Porto, Portugal, April 2017.

- **Phiri, L**., Meinel C., and Suleman, H. Ad hoc vs. organised orchestration: A comparative analysis of technology-driven orchestration approaches (oral presentation), 8th International Conference on Technology for Education, Mumbai, India, December 2016.

- **Phiri, L**., Suleman, H., and Meinel C. Understanding the effects of streamlining the orchestration of learning activities (oral presentation), HPI-CS4A Retreat Workshop, Cape Town, South Africa, August 2016.

- **Phiri, L**. Postgraduate studies: Graduate school experience (oral presentation), Computer Science 1011 Invited Talk, Cape Town, South Africa, May 2016.

- **Phiri, L**., Suleman, H., and Meinel C. Streamlined technology-driven orchestration (oral presentation), HPI Spring Workshop, Cape Town, South Africa, April 2016.

- **Phiri, L**., and Suleman, H. Simple archive architectures (oral presentation), IFLA IT Section Satellite Meeting, Stellenbosch, South Africa, August 2015.

- **Phiri, L**., Suleman, H., and Meinel C. Streamlined orchestration: Investigating the impact of organised orchestration on teaching (oral presentation), HPI-CS4A Retreat Workshop, Cape Town, South Africa, August 2015.

- **Phiri, L**., Suleman, H., and Meinel C. Investigating the impact of organised orchestration on teaching (oral presentation), Doctoral Symposium, 10th Symposium on Future Trends in Service-Oriented Computing, Potsdam, Germany, June 2015.

- Poulo, L., **Phiri, L**., and Suleman, H. Fine-grained scalability of digital library services in the cloud (oral presentation), 2014 Southern African Institute for Computer Scientist and Information Technologists Annual Conference, Centurion, South Africa, September 2014.

- **Phiri, L**., Suleman, H., and Meinel C. K-12 classroom orchestration (oral presentation), HPI Spring Workshop, Cape Town, South Africa, April 2014.

- **Phiri, L**., and Suleman, H. Flexible design for simple digital library tools and services (oral presentation), 2013 Southern African Institute for Computer Scientist and Information Technologists Annual Conference, East London, South Africa, September 2013.

- **Phiri, L**. SALDRU subject repository : SCAP UCT pilot site (oral presentation), SALDRU DSpace Demonstration Talk, Cape Town, South Africa, December 2012.

- **Phiri, L**., Williams, K., Robinson, M., Hammar, S., and Suleman, H. Bonolo: A general digital library system for file-based collections (oral presentation), 14th International Conference on Asia-Pacific Digital Libraries, Taipei, Taiwan, November 2012.

- **Phiri, L**., and Suleman, H. A lightweight digital library framework (oral presentation), M & D Symposium, 2011 Southern African Institute for Computer Scientist and Information Technologists Annual Conference, Cape Town, South Africa, October 2011.

Service to the community

- Reviewer, Southern African Institute for Computer Scientist and Information Technologists Annual Conference, 2017.

- Reviewer, Computers & Education, 2016.

- Reviewer, Southern African Institute for Computer Scientist and Information Technologists Annual Conference, 2015.

- Reviewer, Southern African Institute for Computer Scientist and Information Technologists Annual Conference, 2014.

- Sub-reviewer, Southern African Institute for Computer Scientist and Information Technologists Annual Conference, 2016.

- Sub-reviewer, Southern African Computer Lecturers' Association, 2016.

- Workshop Organiser, Towards a Strategic Agenda for Local Research in ICT for Development, Southern African Institute for Computer Scientist and Information Technologists Annual Conference, 2015.

- Reader, Honours Projects, Department of Computer Science, University of Cape Town, 2016.

- Committee Member, Centre for ICT4D Executive Committee Student Representative, 2016.

- Mentor, Summer Undergraduate Research Experience Project, Department of Computer Science, University of Cape Town, 2012.

- Student Volunteer, International Collegiate Programming Contest, 2015.

- Student Volunteer, Symposium on Electronic Theses and Dissertations, 2011.

- Content Management, Centre for ICT4D Website, 2015–2016.

- Content Management, Digital Libraries Laboratory Website, 2014–2016.

References

Available on request.