

Lighton Phiri

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Education

[†] *Indicates expected*

2014–2018 [†] Ph.D., Computer Science, University of Cape Town
Thesis Title: Streamlined Technology-driven Orchestration
Supervisors: Hussein Suleman and Christoph Meinel
2011–2013 M.Sc., Computer Science, University of Cape Town
2003–2007 B.Sc., Computer Science, University of Zambia

Appointments

2015–2017 Teaching Assistant, Computer Science, University of Cape Town
2015–2015 Temp Lecturer, Computer Science, University of Cape Town
2013–2014 Research Assistant, Digital Libraries Laboratory, University of Cape Town
2013–2013 Part-time Lecturer, ICT, Zambia Centre for Accountancy Studies
2011–2013 Content Curator, SCAP Project, University of Cape Town
2009–2011 Database Administrator, IT Department, Airtel Zambia
2008–2009 Business Intelligence Analyst, IT Department, Zain Zambia
2007–2008 Business Intelligence Analyst, IT Department, Celtel Zambia

Teaching

2016	CSC1015F, Computer Science 1015	University of Cape Town
2015	CSC1017F, Python for Engineers	University of Cape Town

Teaching Assistant

2017	CSC1011H, Computer Science 1011	University of Cape Town
2015	CSC1010H, Computer Science 1010	University of Cape Town
2016	CSC1010H, Computer Science 1010	University of Cape Town
2016	CSC1011H, Computer Science 1011	University of Cape Town
2016	PyMicro, Microcontroller Programming	University of Cape Town

Supervision

2016	Nabeel Parker, Honours Student	University of Cape Town
2016	Morne Valentyn, Honours Student	University of Cape Town

Selected Honours and Awards

2014	Hasso Plattner Institute Ph.D. Studentship
2003	University of Zambia Undergraduate Bursary

Publications

Preprint URLs available at <http://orcid.org/0000-0003-3582-9866>

Journals

- [1] **Phiri, L.**, Meinel, C., & Suleman, H. (2016). Streamlined orchestration: An orchestration workbench framework for effective teaching. *Computers & Education*, 95, 231–238. DOI: [10.1016/j.compedu.2016.01.011](https://doi.org/10.1016/j.compedu.2016.01.011)
- [2] **Phiri, L.**, & Suleman, H. (2012). In search of simplicity: Redesigning the Digital Bleek and Lloyd. *DESIDOC Journal of Library & Information Technology*, 32(4), 306–312. DOI: [10.14429/djlit.32.4.2524](https://doi.org/10.14429/djlit.32.4.2524)

Conferences

- [1] **Phiri, L.**, Meinel, C., & Suleman, H. (2017). Peer tutoring orchestration: Streamlined technology-driven orchestration for peer tutoring. To appear in 9th International Conference on Computer Supported Education.

- [2] **Phiri, L.**, Meinel, C., & Suleman, H. (2016). Ad hoc vs. organised orchestration: A comparative analysis of technology-driven orchestration approaches. In V.Kumar, S. Murphy, & Kinshuk (Eds.), 8th International Conference on Technology for Education (pp. 200–203). Los Alamitos, California: IEEE. DOI: [10.1109/T4E.2016.049](https://doi.org/10.1109/T4E.2016.049)
- [3] Poulo, L., **Phiri, L.**, & Suleman, H. (2014). Fine-grained scalability of digital library services in the cloud. In J. P. van Deventer, M. C. Matthee, H. Gelderblom, & A. Gerber (Eds.), 2014 Southern African Institute for Computer Scientist and Information Technologists Annual Conference (pp. 157–165). New York, NY, USA: ACM. DOI: [10.1145/2664591.2664611](https://doi.org/10.1145/2664591.2664611)
- [4] **Phiri, L.**, & Suleman, H. (2013). Flexible design for simple digital library tools and services. In P. Machanick, & M. Tsietse (Eds.), 2013 Southern African Institute for Computer Scientist and Information Technologists Annual Conference (pp. 160–169). New York, NY, USA: ACM. DOI: [10.1145/2513456.2513485](https://doi.org/10.1145/2513456.2513485)
- [5] **Phiri, L.**, Williams, K., Robinson, M., Hammar, S., & Suleman, H. (2012). Bonolo: A general digital library system for file-based collections. In H.-H. Chen, & G. Chowdhury (Eds.), 14th International Conference on Asia-Pacific Digital Libraries (pp. 49–58). Berlin, Heidelberg: Springer Berlin Heidelberg. DOI: [10.1007/978-3-642-34752-8_6](https://doi.org/10.1007/978-3-642-34752-8_6)

Book chapters

- [1] **Phiri, L.**, & Suleman, H. (2015). Managing cultural heritage: information systems architecture. In I. Ruthven & G. Chowdhury (Eds.), Cultural Heritage Information: Access and Management (pp. 113–134). United Kingdom, London: Facet Publishing.

Theses and dissertations

- [1] **Phiri, L.** (2013). Simple digital libraries. M.Sc. Dissertation. University of Cape Town. Retrieved from <http://hdl.handle.net/11427/6638>

Technical reports

- [1] Baird, M. J., **Phiri, L.**, & Suleman, H. (2014). Automatic workflow management for spatial heritage data. Retrieved from <http://pubs.cs.uct.ac.za/archive/00000962>
- [2] **Phiri, L.**, & Suleman, H. (2013). Benchmarking a file-based digital library system repository architecture. Cape Town. Retrieved from <http://pubs.cs.uct.ac.za/archive/00000888>

Posters

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

- [3] **Phiri, L.**, Meinel, C., & Suleman, H. (2015). Streamlined technology-driven orchestration. Poster session presented at the 10th Symposium on Future Trends in Service-Oriented Computing, Potsdam, Germany.
- [4] **Phiri, L.**, & Suleman, H. (2011) 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.

Contributed Presentations

- [1] **Phiri, L.**, Meinel C., & Suleman, H. (2017). Peer tutoring orchestration: Streamlined Technology-driven Orchestration for Peer Tutoring (oral presentation), 9th International Conference on Computer Supported Education, Porto, Portugal, April 2017.
- [2] **Phiri, L.**, Meinel C., & Suleman, H. (2016). 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.
- [3] **Phiri, L.**, & Suleman, H., & Meinel C. (2016). Understanding the effects of streamlining the orchestration of learning activities (oral presentation), HPI-CS4A Retreat Workshop, Cape Town, South Africa, August 2016.
- [4] **Phiri, L.** (2016). Postgraduate studies: Graduate school experience (oral presentation), Computer Science 1011 Invited Talk, Cape Town, South Africa, May 2016.
- [5] **Phiri, L.**, & Suleman, H., & Meinel C. (2016). Streamlined technology-driven orchestration (oral presentation), HPI Spring Workshop, Cape Town, South Africa, April 2016.
- [6] **Phiri, L.**, & Suleman, H. (2015). Simple archive architectures (oral presentation), IFLA IT Section Satellite Meeting, Stellenbosch, South Africa, August 2015.
- [7] **Phiri, L.**, & Suleman, H., & Meinel C. (2015). Streamlined orchestration: Investigating the impact of organised orchestration on teaching (oral presentation), HPI-CS4A Retreat Workshop, Cape Town, South Africa, August 2015.
- [8] **Phiri, L.**, Suleman, H., & Meinel C. (2015). 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.
- [9] Poulou, L., **Phiri, L.**, & Suleman, H. (2014). 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.
- [10] **Phiri, L.**, & Suleman, H., & Meinel C. (2016). K-12 classroom orchestration (oral presentation), HPI Spring Workshop, Cape Town, South Africa, April 2014.
- [11] **Phiri, L.**, & Suleman, H. (2013). 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.
- [12] **Phiri, L.** (2012). SALDRU subject repository : SCAP UCT pilot site (oral presentation), SALDRU DSpace Demonstration Talk, Cape Town, South Africa, December 2012.

- [13] **Phiri, L.**, Williams, K., Robinson, M., Hammar, S., & Suleman, H. (2012). Bonolo: A general digital library system for file-based collections (oral presentation), 14th International Conference on Asia-Pacific Digital Libraries, Taipei, Taiwan, November 2012.
- [14] **Phiri, L.**, & Suleman, H. (2011). 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.

Professional Activities

- 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

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