

# Martin Thodi

A Software Engineer and a financial analyst with a passion for financial markets, investments and programming. Dedicated to advancing the integrity & viability of African Financial markets. Created and maintains *miyanda.org*, a web repository for fundamentals of African public companies.

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## EDUCATION

### **CFA Institute, USA — CFA Candidate**

DECEMBER 2018 –

Passed CFA Level I (first attempt)

### **Hiroshima University, Japan — Master of Engineering (Information Engineering)**

APRIL 2016 – MARCH 2018

Studied design and implementation of large-scale, data-intensive applications

### **Hiroshima University, Japan — Research Student**

APRIL 2015 - MARCH 2016

Studied Engineering Mathematics, Quantitative Research Methods and Japanese Language

### **Chancellor College, University of Malawi, Malawi — Bachelor of Science (Computer Science)**

MARCH 2009 - OCTOBER 2013

Studied foundations of Computing and Computer Science including Software Engineering, Algorithm Analysis and Design, Modeling & Simulations and Artificial Intelligence.

## EXPERIENCE

### **Computer Science Dept., Chancellor College, Malawi — Associate Lecturer**

DECEMBER 2013 - FEBRUARY 2015

Lectured in Automata Theory (3<sup>rd</sup> year course) and Software Engineering( 4<sup>th</sup> year course)

### **e-CRG, Physics Dept., Chancellor College, Malawi — Wireless Networking Researcher**

NOVEMBER 2012 - JANUARY 2015

Research on using Television White Spaces (TVWS) for wireless networking.

**Duties included :** Bash & C Programming for radio signal analysis, Python Network Programming, HTML5 & JavaScript for data visualization.

### **Malawi SDNP, Malawi — Network Engineer Intern**

JUNE 2012 - OCTOBER 2012

Web Application development (PHP, MySQL, HTML), Linux Server administration.

## SKILLS

- SQL
- Full Stack Web Application Development
- Vue.js
- Quantitative Python (Numpy, Scipy, Pandas, Matplotlib)
- Quantitative Data Analysis & Research Methods
- Equity and Fixed Income Securities Valuation
- Knowledge of financial market microstructures
- JavaScript Charting Libraries (D3.js, Chart.js, Plotly)
- Text Processing (SED, AWK, Bash)
- Cloud Computing (Google App Engine, Microsoft Azure, Amazon AWS)
- Good communication skills
- Ability to work in a team

## PROJECTS

### **miyanda.org**

A web-based repository for fundamentals of companies listed on African stock exchanges. It is aimed at helping analysts and investors to easily find and analyze fundamental company data.

## Publications

- M. Thodi and S. Fujita, "Collaborative Development Environment in Peer-to-Peer Networks," *2016 Fourth International Symposium on Computing and Networking (CANDAR)*, Hiroshima, 2016, pp. 586589. URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7818676&isnumber=7818570>
- C. Mikeka, M. Thodi, J. S. P. Mlatho, J. Pinifolo, D. Kondwani, L. Momba, M. Zennaro, A. Moret, Malawi Television White Spaces (TVWS) Pilot Network Performance Analysis, *Journal of Wireless Networking and Communications*, Vol. 4 No. 1, 2014, pp. 26-32. doi: 10.5923/j.jwnc.20140401.04.
- Mlatho, J.; Thodi, M.; Mikeka, C.; Zennaro, M.; Pietrosemoli, E. "An assessment study on white spaces in Malawi using affordable tools," *Global Humanitarian Technology Conference (GHTC)*, 2013 IEEE, vol., no., pp.265,269, 20-23 Oct. 2013 doi: 10.1109/GHTC.2013.6713693
- Mikeka, C., Mlatho, J. S. P., Thodi, M., Pinifolo J., Kondwani D., Momba L., Zennaro M., Moret, A., Fonda, C., and Pietrosemoli, E., "Preliminary Performance Assessment of TV White Spaces Technology for Broadband Communication in Malawi," in *Proceedings Humanitarian Technology: Science, Systems and Global Impact 2014, HumTech2014*, May 2014. Available [online] at: [http://wireless.ictp.it/Papers/TVWS\\_hum.pdf](http://wireless.ictp.it/Papers/TVWS_hum.pdf)

## Workshops and Conferences

- Poster presentation at the *Fourth International Symposium on Computing & Networking (CANDAR)*, Hiroshima 2016
- Trainer at *Malawi TV White Spaces Training*, Mount Soche Hotel, Blantyre August 2013
- Presenter at *Workshop on Wireless Networking for Science in Africa*, International Centre for Theoretical Physics, Trieste, Italy, March 2013
- Presenter at *First International Conference on Wireless Network & Telecommunications* Chancellor College, Zomba, December 2013

## References

### Satoshi Fujita (Prof)

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