AHMED ABDALLA, PhD
Center for Geoinformatics
Faculty of Civil and Environmental Engineering
Louisiana State University
219 Engineering, Research and Development Building
Baton Rouge, LA 70803, USA
Email: aabdalla1@lsu.edu

Academic Profiles: ResearchGate   Google Scholar   Personal Profile

Employment History (Acdemic & Professional)

2018 Sep–Present Assistant Professor Research, Center for Geoinformatics, Louisiana State University, USA

2014 Nov–2018 Aug Assistant Professor, Department of Surveying Engineering, University of Khartoum.

2017 Apr–2018 Mar Visiting Scientist at Institute of Geodesy, Leibniz University of Hanover, Germany.

2016 Jun–2017 Jun Coordinator of Geomatics Engineering Master Programme, University of Khartoum.

20015 Mar-Jun. Lecturer at Faculty of Engineering Sciences, Omdurman Islamic University, Sudan.

2014 Apr–2015 Dec Research Engineer, Octantis Advanced Co. Ltd, Sudan.

20014 Jan-Feb. Quantity surveyor at John Fillmore Contractors (JFC), Auckland, New Zealand.

2013 Aug-Nov. Teaching assistant at Unitec Institute of Technology, New Zealand

2013 Jan-May. Graduate Research Bursary from School of Surveying, University of Otago, New Zealand

2009 Oct–2012 Dec Teaching and Research Assistant at University of Otago, New Zealand

2003 Oct–2008 Jun Surveyor, Elnourus Petroleum Services, Sudan

Educational Background

2013 May   **PhD** in Surveying from University of Otago, Dunedin, New Zealand.
Major: Physical Geodesy, **Thesis title:** "The Combined Modelling of the Regional Quasi-geoid of New Zealand using Gravity and GPS/levelling data"

2009 Feb   **MSc** in Geodesy and Geoinformatics from Royal Institute of Technology (KTH), Stockholm, Sweden. **Thesis title:** "Determination of a Gravimetric Geoid Model of Sudan Using the KTH Method"

2003 Nov   **BSc** in Surveying Engineering from University of Khartoum, Khartoum, Sudan

Computer Skills

PROGRAMMING: Matlab, Fortran, C++ and Bash Script

OFFICE SUITES: Microsoft Office (Word, Excel, PowerPoint) and
Libre Office

COMMAND PROGRAMMING: Latex, Lyx, GNUPLOT and Generic Mapping Tool (GMT)

MAPPING: Arc-GIS, Surfer, Grapher, Global Mapper

Editorial board member

2014   Global Journal of Earth Science and Engineering

2010   Journal of Geodestic Science

Teaching Experience

MASTER LEVEL: Teaching the following courses of Master Programme of Geomatics Engineering **University of Khartoum**: Linear Algebra and Numerical Analysis (**GEOME611**), Adjustment of measurements (**GEOME615**), Mapping and Positioning (**GEOME618**)

BACHELOR LEVEL:

2014–2017   Teaching the following courses at Faculty of Engineering, **University of Khartoum:** Geometrical Geodesy I **(SE411)**, Geometrical GeodesyII **(SE422)**, Satellite Geodesy **(SE511)**, Physical Geodesy **(SE521)**, Research Methodologies and Graduation projects

2014–2015   Teaching the following courses at Faculty of Engineering Sciences, **Omdurman Islamic University :** Error and Adjustment (**SE322**), Physical Geodesy (**SE424**) and Graduation projects.

2015   Teaching Geodesy and Map Projection Course at Faculty of Geographical and Environmental Sciences, **University of Khartoum**

2013 Aug-Nov   Voluntary Teaching Assistant for land surveying practical secessions at Unitec Institute of Technology, Auckland, New Zealand

2011–2012   Teaching Assistant (during my PhD) at **University of Otago** for the following courses: Surveying Mathematics (**Surv202**), Surveying Methods 2 (**Surv301**), Surveying Methods 3 (**Surv451**)

Scientific Reviewer for publications of

- KSCE Journal of Civil Engineering, Springer

- Journal of Earth Science Informatics, Springer

- Acta Geodaetica et Geophysica Hungarica, Springer

- Journal of Applied Geomatics, Springer

- Journal of Applied Geophysics, Elsevier

- Journal of Geodetic Science, Versita

- Global Perspectives on Geography (GPG)

- Geodesy and Geodynamics, Elsevier

- Arabian Journal of Geosciences, Springer

- IEEE Journal of Selected Topics in Applied Observations and Remote Sensing

- Geosciences, MDPI

Scholarships and Grants

2017–2018	IDB Scholarship: Merit Scholarship Programme for High Technology
2013 Jan-May	The University of Otago Research Bursary for postgraduate students 2013, New Zealand
2012 Nov	New Zealand Geoscience Travel Grant, Hamilton -New Zealand.
2012 Nov-Dec	New Zealand Geoscience Travel Grant, Nelson -New Zealand.
2011 Jun-Jul	International Union of Geodesy and Geophysics (IUGG) Student Grant
2010 Nov-Dec	New Zealand Geoscience Travel Grant, Auckland -New Zealand.
2017–2018	University of Otago Prestigeous Postgraduate Scholarship, New Zealand.
2010 Oct-Dec	School of Surveying Postgraduate Scholarship - University of Otago, New Zealand.

List of Publications

Theses

- **Abdalla, A** (2013) The Combined Modelling of the Regional Quasigeoid of New Zealand Using Gravity and GPS/levelling data. PhD in Surveying, University of Otago, Dunedin, New Zealand.

- A**bdalla, A** (2009) Determination of a Gravimetric Geoid Model of Sudan Using the KTH Method. Master's Thesis in Geodesy, Royal Institute of Technology (KTH), Stockholm – Sweden.

- **Abdalla, A** (2003) Establishment of a Traverse Around the Southern Part of the University of Khartoum Campus Using Total Station and Theodolite. Undergraduate thesis in Surveying Engineering, University of Khartoum, Khartoum – Sudan

Peer-reviewed papers

1. Mohammed, I., Nuh, H., **Abdalla, A** (2017) Coupling Universal Soil Loss Equation and GIS Techniques for Estimation of Soil Loss and Sediment Yield in Algash Basin. International Journal of Advanced Remote Sensing and GIS. (doi: 10.23953/cloud.ijarsg.36)

2. **Abdalla, A.,** Green, C. (2016) Utilisation of Fast Fourier Transform and Least-squares Modification of Stokes formula to compile an approximate geoid model over Khartoum State: Sudan. Arabian Journal of Geosciences, Springer

3. Elmahal, A., Khidir, N., Elkhidir, S., **Abdalla, A.,** Elsheikh, A. (2015) Remote Sensing and GIS techniques for quantitative morphometric analysis and change detection: Case Study: Wadi El-Nugaa' Watershed, Almatamah Locality, River Nile State, Sudan. International Journal of Geosciences and Geomatics, Vol. 3, Issue 1, 2015, ISSN:2052-5591

4. **Abdalla, A.,** Mohamed, A., Khabeer, A. (2015) Adjustment and gross errors detection of free triangulation geodetic network using minimum-norm least-squares inverses and data snooping, Global Journal of Earth Science and Engineering.

5. **Abdalla, A.,** Mogren, S (2015) Implementation of a rigorous least-squares modification of Stokes formula to compute a precise geoid model over Saudi Arabia (SAGEO13). Canadian Journal of Earth Science

6. **Abdalla, A.,** Yousif, M. E., Jafar, M (2015) On the evaluation of the Sudanese old geodetic datum using GOCE geopotential models and local terrestrial gravity data.

7. **Abdalla, A.** (2015) Inter-comparisons and vertical accuracy assessments of global digital elevation models using local levelling points. Geodesy Day University of Khartoum

8. **Abdalla, A.** (2015) Temporal variations of the Earth gravity field and gravimertic geoid model captured by time series of GRACE monthly data. Geodesy Day University of Khartoum.

9. **Abdalla, A.**, Tenzer, R (2012) Compilation of the regional quasigeoid model for New Zealand using the discretized integral-equation approach. Journal of geodetic science.

10. **Abdalla, A.**, Fashir, H.H., Ali, A., Fairhead, D., (2012) Validation of Recent GOCE/GRACE Geopotential Models Over Khartoum State – Sudan , Journal of Geodetic Sciences, DOI: 10.2478/v10156-011-0035-6

11. Tenzer, R., Dayoub, N. and **Abdalla, A**. (2012) Analysis of a relative offset between vertical datums at the North and South Islands of New Zealand. Journal of Applied Geomatics.

12. **Abdalla, A.**, Tenzer, R., (2012) The global geopotential and regional gravimetric geoid/quasigeoid models testing using the newly adjusted levelling dataset for New Zealand Applied Geomatics, DOI:10.1007/s12518- 012-0089-x

13. Tenzer, R., Čunderlík, R., Dayoub, N. and **Abdalla, A**. (2011) Application of the BEM approach for a determination of the regional marine geoid model and the mean dynamic topography in the Southwest Pacific Ocean and Tasman Sea., Journal of Geodetic Science, DOI: 10.2478/v10156-011-0019-6

14. Tenzer R, Vatrt V, Luzi G, **Abdalla A**, Dayoub N (2011) Combined approach for the unification of levelling networks in New Zealand. Journal of Geodetic Sciences

15. **Abdalla A**, Fairhead D (2011) A new Geoid model for Sudan using the KTH method. J of African Earth Sciences.

16. **Abdalla A**, Tenzer R (2010) The evaluation of the New Zealand's geoid model using the KTH method. Journal of Geodesy and Cartography. doi:10:3846/13921341-2011-558326

17. Tenzer R, Novák P, Vajda P, Ellmann A, **Abdalla A** (2011) Far-zone gravity field contributions corrected for the effect of topography by means of Molodensky's truncation coefficients. Studia Geophysica et Geodaetica.

18. Tenzer R, **Abdalla A**, Vajda P, Hamayun (2010) The spherical harmonic representation of the gravitational field quantities generated by the ice density contrast. Contributions to Geophysics and Geodesy, 40(3): 207- 223.

19. Čunderlík R, Tenzer R, **Abdalla A**, Mikula K (2010) The quasigeoid modelling in New Zealand using the boundary element method. Contributions to Geophysics and Geodesy.

20. Tenzer R, Vatrt V, **Abdalla A**, Dayoub N (2010) Assessment of the LVD offsets for the normal-orthometric heights and different permanent tide systems. Applied Geomatics.

Conference proceedings

1. **Abdalla A**, Ali A (2018) Combined refinement for DEM using low-pass convolution filters and a fitting model. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan.

2. Mustafa M, **Abdalla A** (2018) Determination of horizontal displacement in a part of Sudan conventional triangulation network using GNSS. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan.

3. **Abdalla A**, Green C (2018) GEOWARE: An optimised Matlab software for determination of high-frequency geoid model using relational operators. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan.

4. Elmahal, A., Ganawa, E., **Abdalla, A.,** Salih, A. (2015) Understanding the Common Morphometric Relationships in Hyper-arid Regions Using Remote Sensing and GIS Techniques Case Study: Northern State, Sudan. International Forum on the scarcity and water harvesting, control in semi-arid areas, Hurghada, Egypt

5. **Abdalla A.**, Anwar, A., Jafar, M., Yousif, M., and Eltayeb, Y., (2015) Multi-station baseline calibration of errors induced by phase inhomogeneity in electronic distance measurement devices, International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015, Khartoum, Sudan

6. **Abdalla A.**, Elmahal, A., (2015) Augmentation of Vertical Accuracy of Digital Elevation Models Using Gaussian Linear Convolution Filter, International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015, Khartoum, Sudan

7. **Abdalla A.**, Tenzer, R., (2014) The integral-equation-based approaches for modelling the local gravity field in the remove-restore scheme, International Association of Geodesy Symposia

8. Tenzer, R., **Abdalla A.**,Gan, L (2012) The differences between the normal, Orthometric and normal orthometric heights in New Zealand, International Association of Geodesy Symposia (**Abstract**)

9. Tenzer, R., **Abdalla A.**, Gan, L (2012) Joint adjustment of the levelling networks in New Zealand using levelling, tide-gauge, and EGM08 gravity data, International Association of Geodesy Symposia (**Abstract**)

Conference presentations

1. **Abdalla A**, Ali A (2018) Combined refinement for DEM using low-pass convolution filters and a fitting model. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan, (**oral presentation**).

2. Mustafa M, **Abdalla A** (2018) Determination of horizontal displacement in a part of Sudan conventional triangulation network using GNSS. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan, (**oral presentation**).

3. **Abdalla A**, Green C (2018) GEOWARE: An optimised Matlab software for determination of high-frequency geoid model using relational operators. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan (**oral presentation**).

4. **Abdalla, A**., Denker, H., Müller, J (2018) A Combined optimisation of local and global gravimetric data to improve geoid modelling in Sudan. European Geosciences Union (EGU). EGU General Assembly 2018 (8-13 April 2018). Vienna, Austria (**poster presentation**).

5. **Abdalla, A**., Naemi, M., Weiglet, M., Müller, J (2018) On the hydrological mass variations in Sudan: Based on GRACE satellite gravimetry and global hydrological models. European Geosciences Union (EGU). EGU General Assembly 2018 (8-13 April 2018). Vienna, Austria (**poster presentation**)

6. Elmahal, A., **Abdalla, A**. (2017) Assessing the Impacts of Bridges on the Development of Fluvial Islands Using Remote Sensing and GIS: Case Study on the Islands of Khartoum State up to Sabaloka Gorge, Khartoum State, Sudan (**oral presentation**)

7. Mohammed, I, **Abdalla, A.**, Nuh, H. (2017) Estimating Soil Erosion Using Universal Soil Loss Equation and GIS in Algash Basin. ICRSG 2017 : 19th International Conference on Remote Sensing and Geomorphology, At Jeddah, Saudi Arabia (**oral presentation**)

8. Elmahal, A., Ganawa, E., **Abdalla, A.**, Salih, A. (2015) Understanding the Common Morphometric Relationships in Hyper-arid Regions Using Remote Sensing and GIS Techniques Case Study: Northern State, Sudan. International Forum on the scarcity and water harvesting, control in semi-arid areas, Hurghada, Egypt (**oral presentation**)

9. Elmahal, A., Khidir, N., Elkhidir, S., **Abdalla, A**., Elsheikh, A. (2015) Hydro-geomorphological Interpretations from Watershed and Change detection investigations using Remote Sensing and GIS Techniques. 4th International Geoscience and Geomatics Conference, 23-25 November 2015, Manama, Bahrain (**oral presentation**)

10. **Abdalla A**, Elmahal A (2015) Augmentation of vertical accuracy of digital elevation model using Gaussian linear convolution filter International Conference on Computing, Control, Networking, Electro nics and Embedded Systems Engineering, 2015, ICCNEEE15, 7-9 Sept, 2015, Khartoum, Sudan (**oral presentation**)

11. **Abdalla A**, Tenzer R (2012) Improved gravimetric solution for the height reference surface in New Zealand. The Geosciences 2012, The annual conference of the Geoscience Society of New Zealand, 25-28 November, 2012, Hamilton, New Zealand (**poster presentation**)

12. **Abdalla A**, Tenzer R (2012) Accuracy assessment of the global and regional gravimetric geoid/quasigeoid. The Geosciences 2011, The annual conference of the Geoscience Society of New Zealand, 25-28 November, 2012, Hamilton, New Zealand (poster presentation)

13. **Abdalla A**, Tenzer R, Gan L (2011) Towards improvement of the vertical reference system in New Zealand using GPS, levelling, gravity and altimetry data. The Geosciences 2011, The annual conference of the Geoscience Society of New Zealand, 27 November – 1 December, 2011, Nelson, New Zealand (**oral presentation**)

14. **Abdalla A**, Tenzer R (2011) New approach for the gravimetric quasigeoid modelling using Gree n's discretized integral equations and Molodensky's types of expressions. The Geosciences 2011, The annual conference of the Geoscience Society of New Zealand, 27 November – 1 December, 2011, Nelson, New Zealand (**poster presentation**)

15. Tenzer R, **Abdalla A**, Vatrt V, Dayoub N (2010) Average offsets of the local vertical datums in New Zealand relative to the World Height System. Session MPRG5/G17: From large to small scales for potential fields - tools and models European Geosciences Union (EGU) General Assembly 2010, May 2-7, 2010, Vienna, Austria (**poster presentation**).

16. Tenzer R, **Abdalla A**, Novák P (2010) Global maps of the ellipsoidal corrections to gravity disturbances and gravity anomalies computed using the EGM2008 global geopotential model. Session MPRG5/G17: From large to small scales for potential fields - tools and models European Geosciences Union (EGU) General Assembly 2010, May 2-7, 2010, Vienna, Austria (**poster presentation**).

17. Mikuška J, Marušiak I, Tenzer R, **Abdalla A** (2010) The topographic gravity correction computed based on the 2-D digital rock density model of New Zealand. GeoNZ2010 conference of Geoscience Society of New Zealand and New Zealand Geothermal Workshop, Symposium 21: New frontiers and general geosciences, November 22-24, 2010, Auckland, New Zealand (**poster presentation**).

18. Čunderlík R, Tenzer R, **Abdalla A** (2010) The dynamic surface topography offshore New Zealand derived from the DNSC08 mean sea surface and the BEM marine geoid (preliminary study). Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 (**poster presentation**).

19. **Abdalla A**, Tenzer R (2010) A compilation of the new geoid model in New Zealand using the KTH method. Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 (**oral presentation**).

20. **Abdalla A**, Tenzer R, Čunderlík R (2010) A comparison of the currently available global and regional geoid/quasigeoid models in New Zealand. Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 (poster presentation).

21. Čunderlík R, Tenzer R, **Abdalla A** (2010) Gravimetric quasigeoid modelling using the boundary element method (a case study for New Zealand). Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 (**poster presentation**).

22. Gregory K, Tenzer R, Denys P, Hannah J, **Abdalla A** (2010) Decoupling the glacial isostatic adjustment and vertical tectonic motions from GPS time series and ICE-5G data (case study for New Zealand). Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 (poster presentation).

23. Tenzer R, Novák P, **Abdalla A**, Vajda P, Ellmann A (2011) A spectral modelling of the gravitational contribution of the far-zone topography. Session G1.1: Geodetic Theory - Recent Developments in Geodetic Theory, April 3-8, 2011, Vienna, Austria (**poster presentation**).

24. Tenzer R, **Abdalla A**, Čunderlík R (2011) Comparison of the dynamic sea surface topography with the ocean currents in the Southwest Pacific Ocean and Tasman Sea. Session OS1.1: Ocean General Circulation and Climate - Open session on ocean circulation, April 3-8, 2011, Vienna, Austria (**poster presentation**). Association of Geodesy Symposia (Abstract)

Research Seminars

1. Mugnier C, **Abdalla A** (2018) Geoid enhancement in the gulf coast region: Physical geodesy and real-time network observations. The Association of Petroleum Surveing and Geomatics (APSG) Fall Meeting, Houston, 9th Nov 2017 (**oral presentation**).

2. **Abdalla A** (2017) Geoid modelling in Sudan. Leibniz University of Hannover, Hannover, 26th Nov 2017 (**oral presentation**).

3. **Abdalla A** (2017) Progress of Surveying profession. Engineer's Week 17, University of Khartoum, Khartoum, Sudan, 23rd May 2017 (**oral presentation**).

4. **Abdalla A** (2016) Applications of satellite technology in Earth Sciences. Space Week, Future University, Khartoum, Sudan, 5th Oct 2016 (**oral presentation**).

5. **Abdalla A** (2015) GPS fundamentals and applications. Darfur development workshop , Future University, Khartoum, Sudan, 29th Aug 2015 (**oral presentation**).

6. **Abdalla A** (2015) Modern Applications of Geomatics. Surveying Engineering Students Association, University of Khartoum, Khartoum, Sudan, 3rd June 2015 (**oral presentation**).

7. **Abdalla A** (2015) Contribution of Modern Geodesy in Earth Sciences and Engineering. Surveying Engineering Students Association, Engineer's Week 16, University of Khartoum, Khartoum, Sudan, 23rd April 2015 (**oral presentation**).

8. **Abdalla A** (2015) On the Scientific writing, Omdurman Islamic University, Khartoum, Sudan, 3rd Nov 2015 (**oral presentation**).

9. **Abdalla A** (2015) Guides to write your thesis, University of Khartoum, Khartoum, Sudan, 28th Oct 2015 (**oral presentation**).

10. **Abdalla A** (2015) GPS fundamentals and applications. Darfur development workshop, Future University, Khartoum, Sudan, 29th Aug 2015 (**oral presentation**)**.**

11. **Abdalla A** (2015) Modern Applications of Geomatics. Surveying Engineering Students Association, University of Khartoum, Khartoum, Sudan, 3rd June 2015 (**oral presentation**).

12. **Abdalla A** (2015) Space Technologies (Anticipated uses). Sudanese Geoinformatics Society (SGS), First Scientific meeting, Future University, Khartoum, Sudan, 31st January 2015 (**oral presentation**).

13. **Abdalla A**, Tenzer R , (2012) New experimental regional model of New Zealand (OTG12), Surveying Research Workshop, School of Surveying, Otago University, Dunedin, New Zealand, 2nd of August, 2012 (**oral presentation**).

14. Rýznarová L ,Tenzer R , **Abdalla A**, Wiart A (2012) Regional validation of GRACE monthly solutions using oceanographic datasets, Surveying Research Workshop, School of Surveying, Otago University, Dunedin, New Zealand, 2nd of August, 2012 (**oral presentation**).

15. **Abdalla A**, (2011) Accuracy analysis of state-of-the-art global gravity models using GPS-levelling and gravity data – a New Zealand case study, Surveying research seminar series, School of Surveying, Otago University, Dunedin, New Zealand, 18th of August, 2011 (**oral presentation**).

16. Tenzer R, Gan L, Čunderlík R, **Abdalla A** (2011) On some problems with the realization of the World Height System in New Zealand. Institute of Geodesy and Photogrammetry, Malaysia University of Technology, Skudai, Johor, Malaysia, 1st of April 2011 **(invited oral presentation)**.

17. **Abdalla A**, Tenzer R (2010) A compilation of the new geoid model in New Zealand using the KTH method. Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 **(oral presentation)**.

18. **Abdalla A**, Tenzer R (2010) First results of a new gravimetric geoid model for New Zealand. Surveying research seminar series, School of Surveying, Otago University, Dunedin, New Zealand, 12th of February, 2010 **(oral presentation)**.

19. Tenzer R, **Abdalla A** (2010) Comparison of the new gravimetric geoid model KTH-NZ2010.v1 with existing quasigeoid models for New Zealand. Surveying research seminar series, School of Surveying, Otago University, Dunedin, New Zealand, 12th of February, 2010 **(oral presentation)**

Supervision

MASTER LEVEL:

2014–to-date	**University of Khartoum**
	Mohamed Elmustafa Omer Eid (**4/2017-8/2018**)
	Bahaeldin Adam (**2015-2016**)
	Mohamed Ahmed Eltigani (**2015-2016**)
	Issameldin Mohamed Elsheikh (**2015-2016**)

BACHELOR LEVEL: **Students by universities**

2015–2016	Mohamed Elmuntasir (**University of Khartoum**)
	Mohamed Jaafar (**University of Khartoum**)
	Alwaleed Abdelmajeed (**University of Khartoum**)
	Fakhr Eldeen Elmahy (**University of Khartoum**)
	Hussien Awadelkareem (**University of Khartoum**)
	Mazin Elsadig (**University of Khartoum**)
	Elmustafa Tajelsir(**University of Khartoum**)
	Mowafag Mohamed (**University of Khartoum**)
	Ayman Osman (**University of Khartoum**)
	Mohamed Luai (**University of Khartoum**)
	Tarig Babikir (**University of Khartoum**)
	Mustafa Omer (**University of Khartoum**)
	Ahmed Izzeldin (**University of Khartoum**)
	Ahmed Eisa (**Omdurman Islamic University**)
	Abdelkarim Ali (**Omdurman Islamic University**)
	Mohamed Ahmed (**Omdurman Islamic University**)
	Elwasila Osman (**Omdurman Islamic University**)
	Mubashar Ali (**Omdurman Islamic University**)
	Elsiddig Mohamed (**Omdurman Islamic University**)
	Omer Tarig (**Omdurman Islamic University**)
	Imad Abdalla (**Omdurman Islamic University**)
	Abdelhalim Elrayah (**Omdurman Islamic University**)
	Omer Osman (**Omdurman Islamic University**)
	Ahmed Ali (**Omdurman Islamic University**)
	Eltahir Ahmed (**Omdurman Islamic University**)
2014–2015	Mohtadi Osman (**University of Khartoum**)
	Mohamed Elfadil (**University of Khartoum**)
	Bushra Mohamed (**University of Khartoum**)
	Mosaab Omer (**University of Khartoum**)

Mohamed Abdelrahman (**University of Khartoum**)
Mohamed Samual (**University of Khartoum**)
Mohamed Elmustafa (**University of Khartoum**)
Mohamed Sami (**University of Khartoum**)
Abdelrashid Taha (**University of Khartoum**)

2010 Oct-Dec   Luzi Gan (**Summer job, University of Otago**)