

Curriculum Vitae

Date: 01/ January/ 2021



Personal Data

Name/Surname: Amani Abdelrazag Abdelrahman Ahmed Elfaki

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Nationality: Sudanese

Date of Birth: 3 July 1977, Khartoum/SUDAN

Marital Status: Single

Languages

- **Language:** Arabic (Mother Tongue)
- **Language:** English
 - Understanding: Excellent
 - Writing: Excellent
 - Speaking: Excellent
- **Language:** Turkish
 - Understanding: Very Good
 - Writing: Very Good
 - Speaking: Good

Present Position

- Associate Professor: Head Department of Anatomy, Faculty of Medicine, Al Zaiem Al Azhari University, Khartoum North / SUDAN
- Associate Professor: Department of Anatomy, Faculty of Medicine, National University, Khartoum/ SUDAN

Education

- **Degree:** BSc. (Very Good with Honor)
 - **Graduation date:** 21/October/2000
 - **Subject:** Faculty of Science and Basic Medical Sciences
 - **Institution:** Omdurman Islamic University, Khartoum/SUDAN
- **Degree:** MSc. (Very Good)
 - **Graduation date:** 04/August/2003
 - **Subject:** Human Anatomy
 - **Institution:** Al Zaiem Al Azhari University, Khartoum North/SUDAN
- **Degree:** Ph.D. (Excellent)
 - **Graduation date:** 18/December/2011
 - **Subject:** Neuroanatomy
 - **Institution:** Gezira University, Wad Madni/ SUDAN
(Joining Part at Ondokuz Mayıs University, Samsun/TURKEY)

- **Degree:** Postdoctoral Studies
 - **Graduation date:** 30/ November/2015
 - **Subject:** Neuroscience
 - **Institution:** Ondokuz Mayıs University, Samsun/TURKEY
(Joining Part at Maastricht University, Maastricht/ NETHERLANDS)

Work Experience

- **Dates:** 01/11/2018- Up to date
 - **Occupation:** Associate Professor (Full time)
 - **Organization:** Department of Anatomy, Faculty of Medicine, Al Zaiem Al Azhari University, Khartoum North/ SUDAN
 - **Activities:**
 - ✓ Qualified application for teaching gross Anatomy (particularly functional Anatomy), Histology and Embryology for postgraduate and undergraduate students of Medicine.
 - ✓ Ability to organize, maintain and develop gross anatomy laboratory materials.
 - ✓ Organizing Courses, evaluation of the students and formation of the exams.
 - ✓ Working with the postgraduates' students on the field of MR Imaging of the brain and advanced image processing methods in patients with neurodegenerative diseases.
- **Dates:** 01/12/2016- Up to date
 - **Occupation:** Associate Professor (Full time)
 - **Organization:** Department of Anatomy, Faculty of Medicine, National University, Khartoum/ SUDAN
 - **Activities:**
 - ✓ Qualified application for teaching gross Anatomy (particularly functional Anatomy), Histology and Embryology for postgraduate and undergraduate students of Medicine.
 - ✓ Ability to organize, maintain and develop gross anatomy laboratory materials.
 - ✓ Organizing Courses, evaluation of the students and formation of the exams.
 - ✓ Working with the postgraduates' students on the field of MR Imaging of the brain and advanced image processing methods in patients with neurodegenerative diseases.
- **Dates:** 01/01/2013- 30/11/2016
 - **Occupation:** Assistant Professor (Full time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ Ondokuz Mayıs University, Samsun 55139/TURKEY
 - **Activities:**
 - ✓ Qualified application for teaching gross Anatomy, particularly functional Anatomy for undergraduate students of Medicine.
 - ✓ Ability to organize, maintain and develop gross anatomy laboratory materials.
 - ✓ Organizing Courses, evaluation of the students and formation of the exams.

- ✓ Working with the postgraduates' students on the field of MR Imaging of the brain and advanced image processing methods in patients with neurodegenerative diseases.
- **Dates:** 01/11/2011- 31/12/2012
 - **Occupation:** Assistant Professor (Full time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ Khartoum University, Khartoum/SUDAN
 - **Activities:**
 - ✓ Qualified application for teaching gross Anatomy, particularly functional anatomy and medical histology/ cell biology for postgraduate and undergraduate students of Medicine.
 - ✓ Ability to organize, maintain and develop laboratory materials of macroscopic and microscopic anatomy.
 - ✓ Organizing Courses, evaluation of the students and formation of the exams.
- **Dates:** 03/10/2011- 31/12/2012
 - **Occupation:** Assistant Professor (Full time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ National University for Medical and Technical Studies, Khartoum/SUDAN
 - **Activities:**
 - ✓ Qualified application for teaching gross Anatomy, particularly functional anatomy and medical histology/ cell biology for postgraduates and undergraduate students of Medicine, Dentistry, Pharmacy, Laboratory, and Physiotherapy.
 - ✓ Ability to organize, maintain and develop laboratory materials of macroscopic and microscopic anatomy.
 - ✓ Organizing Courses, evaluation of the students and formation of the exams.
- **Dates:** 01/6/2010 – 01/10/2011
 - **Occupation:** Lecturer (Full time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ National University for Medical and Technical Studies, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine, Dentistry, Pharmacy, Laboratory, and Physiotherapy. Organizing courses. Evaluation of the students and formation of the exams.
- **Dates:** 01/09/2003 – 01/05/2010
 - **Occupation:** Lecturer (Full time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ University of Sciences and Technology, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine, Dentistry, Pharmacy, Laboratory, and Medical Engineering. Organizing courses. Evaluation of the students and formation of the exams.

- **Dates:** 01/11/2008 – 01/05/2010
 - **Occupation:** Lecturer (Par time)
 - **Organization:** Department of Human Anatomy/ Nile College, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine and Laboratory. Organizing courses. Evaluation of the students and formation of the exams.
- **Dates:** 01/10/2007 – 01/05/2009
 - **Occupation:** Lecturer (Par time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ Ahfad University for Women, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine and Pharmacy. Organizing courses. Evaluation of the students and formation of the exams.
- **Dates:** 01/03/2004 – 01/07/2004
 - **Occupation:** Lecturer (Par time)
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ Juba University, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine. Organizing courses. Evaluation of the students and formation of the exams.
- **Dates:** 01/11/2000 – 01/08/2003
 - **Occupation:** Teaching Assistant
 - **Organization:** Department of Human Anatomy/ Faculty of Medicine/ University of Sciences and Technology, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine and Dentistry.
- **Dates:** 01/09/2000 – 01/11/2000
 - **Occupation:** Teaching Assistant
 - **Organization:** Department of Human Anatomy / Faculty of Medicine/ Ahfad University for Women, Khartoum/SUDAN
 - **Activities:** Teaching Anatomy to the undergraduate students of Medicine.

Teaching Experience

- **Organization and Coordination of the Following Courses:**
 - Human Body Structures and Functions
 - Growth and Development
 - Microscopic Structures of the body
 - Respiratory System
 - Cardiovascular System
 - Blood, Lymph and Immune System
 - Musculoskeletal System
 - Gastrointestinal System
 - Urinary System
 - Reproductive System
 - Endocrine System
 - Nervous System

- **Major Courses Organization and Coordination:**

- Neuroscience Course
- Levels of Organization
- Support and Movement
- Integration and Coordination
- Absorption and Excretion
- The Human Life Cycle

Training Courses Attended

- **Programme:** Moodle learning management system (LMS)
- **Institution:** Human Resource, E-Learning Unit, Al Zaiem Al Azhari University, Khartoum North / SUDAN (2020).

- **Programme:** Research Ethics Committees (RECs); Functions and Operations
- **Institution:** Sudan Network of Research Ethics Committees (SNREC), Khartoum University, Khartoum/ SUDAN (2018).

- **Programme:** Advanced Microscopically Investigations in Animal Models
- **Institution:** Maastricht University, Maastricht/ NETHERLANDS (2015).

- **Programme:** Ultra-High Field MR Imaging of the Brain and Advanced Image Processing Methods in Patients with Neurodegenerative Diseases
- **Institution:** Maastricht University, Maastricht/ NETHERLANDS (2015).

- **Programme:** 2nd Clinical Neuroscience Course- Progress in Deep Brain Stimulation in Movement Disorder, Epilepsy, and Psychiatric Disorders
- **Institution:** Maastricht University and Ondokuz Mayis University, Samsun/ TURKEY, (2015).

- **Programme:** Experimental and Clinical Stereotactic Surgery in Neurological and Psychiatric Disorders
- **Institution:** Ondokuz Mayis University, Samsun/ TURKEY, (2011).

- **Programme:** Basic Principles of Stereology
- **Institution:** Turkish Society for Stereology, Medical School of Ondokuz Mayis University, Samsun/ TURKEY, (2009).

- **Programme:** International Course on Stereotaxy, Microsurgery and Stereology
- **Institution:** Ondokuz Mayis University, (Samsun/TURKEY) (October/ 2009).

- **Programme:** Software package used for statistical analysis (SPSS)
- **Institution:** University of Science and Technology, Khartoum/SUDAN, (2009).

- **Programme:** Scientific Research Writing
- **Institution:** University of Science and Technology, Khartoum/SUDAN, (2009).

- **Programme:** Medical Education
- **Institution:** University of Khartoum, Khartoum/SUDAN, (2008).

- **Programme:** Diploma of Educational Development
- **Institution:** Educational Development Center of Khartoum University, Khartoum/SUDAN, (2005).

- **Programme:** Diploma of Computer Sciences
- **Institution:** Haneef Computer Institute, Khartoum/SUDAN, (1995).

Conferences and Workshops Attended

- Educational Technology Workshop, Khartoum University, (Khartoum/ SUDAN) (July and August/ 2019).
- Scientific Writing Workshop, National University, (Khartoum/ SUDAN) (November/ 2018).
- The Role of Innovation and Future Vision in Administrative Excellence, (Khartoum/ SUDAN) (May/ 2018).
- Basic Principle of Stereology and Automatic Brain Segmentation, National University, (Khartoum/ SUDAN) (April/ 2018).
- The 7th Annual Psychiatric Conference, (Khartoum/ SUDAN) (January/ 2018).
- The 9th International Symposium of Clinical and Applied Anatomy, (Innsbruck/ AUSTRIA) (September/ 2017).
- Workshop on bridging the gap between research and publications: challenges and opportunities Sudan National Chapter (OWSD-SNC). (Khartoum/ SUDAN)(April/ 2017).
- The 1st International Conference of Women in Science, Women in Science Without Borders (WISWB) (Cairo/ EGYPT)(March/ 2017).
- The 8th International Symposium of Clinical and Applied Anatomy, (Budapest/ HUNGARY) (September/ 2016).
- Workshop on Education and Business Opportunities in Turkey and Africa, Ondokuz Mayıs University, (Samsun/TURKEY) (March/2016).
- International conference on Sudanese - Turkish relations past to present and opportunities for the future, (Khartoum/ SUDAN) (February 2016).
- 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology, (Dubai/ UNITED ARAB EMIRATES) (December 2015).
- Intensive Hands on Stereology Training Workshop, Turkish Society of Stereology, (Dubai / UNITED ARAB EMIRATES) (December 2015).
- XXIV International Symposium on Morphological Sciences, University of Istanbul, (Istanbul/TURKEY) (September 2015).
- Workshop on Scientific Writing, University of Sarajevo, (Sarajevo/ BOSNIA AND HERZEGOVINA) (May 2015).

- 5th International Scientific Writing Workshop, Ondokuz Mayıs University, (Samsun/TURKEY) (April/2015).
- Entrepreneurial Leadership Panel, Ondokuz Mayıs University, (Samsun/TURKEY) (February/2015).
- Sudan-Turk Universities Collaboration Forum and Education Fair (Khartoum/SUDAN) (January 2015).
- Stereology & Neuroscience Symposium, Sokoine University of Agriculture, (Morogoro/ TANZANIA) (June 2014).
- 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University, (Samsun/TURKEY), (April/2014).
- 15th National Anatomical Conference, Ondokuz Mayıs University, (Samsun/TURKEY) (September/2013).
- Controversies on Electromagnetic Field in Medicine and Biology, Ondokuz Mayıs University, (Samsun/TURKEY), (June/2013).
- First Asian and African Stereology Congress, Ondokuz Mayıs University, (Samsun/TURKEY) (November/2012).
- International Symposium of Clinical and Applied Anatomy, Ankara University (Ankara/TURKEY) (June/2012).
- Stereology, Spatial Statistics and Stochastic Geometry 7th International Conference, Charles University (Prague/ CZECH REPUBLIC) (June/ 2012).
- Joint Meeting of Anatomical Societies, Uludag University (Bursa/ TURKEY) (May/ 2011).
- 10 Turkish Neuroscience Conference, Istanbul University (Istanbul/ TURKEY) (April/ 2011).
- Neuroglia Workshop, Yeditepe University (Istanbul/ TURKEY) (April/ 2011).
- International Life Sciences, Students' Conference, Radboud University (Nijmegen/ NETHERLANDS) (November/ 2010).
- The First Workshop of Stereology in Sudan, Sudanese Society of Radiologists, (Khartoum/SUDAN) (March/ 2010).
- Conference of the Neuroimaging, Sudanese Society of Radiologists, (Khartoum/SUDAN) (March/ 2010).
- The Third Sudanese Neurosciences Conference, Sudanese Society for Neurological Sciences, (Khartoum/SUDAN) (January/ 2010).
- The First International Conference of the Cancer, National Centre for Radioactive and Isotope, (Khartoum/SUDAN) (December/ 2009).
- Conference of the Imaging of the Brain: Techniques and Modalities, Sudanese Society of Radiologists, (Khartoum/SUDAN) (Augustus/ 2009).
- Students Assessment, Nile College, (Khartoum/SUDAN) (June/ 2009).
- Case - Based Learning for Basic Sciences, Sudan International University, (Khartoum/SUDAN) (December/ 2008).
- OSPE & OSCE Workshop, University of Science & Technology, (Khartoum/SUDAN) (October/ 2008).
- Enhanced Teaching Anatomy by Plastination, Khartoum University, (Khartoum/SUDAN) (Augustus/ 2008).
- Conference of the Sudanese Islamic Medical Association-SIMA, (Khartoum/SUDAN) (June/ 2008).
- The Second International Conference of the Medical Education, Khartoum University, (Khartoum/SUDAN) (March/ 2007).

- MCQs Construction, Soba Hospital, (Khartoum/SUDAN) (March/ 2007).
- Small Group Teaching, Soba Hospital, (Khartoum/SUDAN) (March/ 2007).
- An Introduction to Educational Planning, University of Science & Technology, (Khartoum/SUDAN) (October/ 2006).
- E. Learning at University of Science & Technology, (Khartoum/SUDAN) (June/ 2006).

Lectures on Conferences and Workshops

- Quantitative MRI of the Temporal Lobe Structures in Patients with Chronic Schizophrenia, 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology, (Dubai/ UNITED ARAB EMIRATES) (December 2015).
- Estimation of Volume and Volume Fraction on Macroscopic and Radiological Sections, Intensive Hands on Stereology Training Workshop, Turkish Society of Stereology, (Dubai / UNITED ARAB EMIRATES) (December 2015).
- Strategies for using EndNote effectively while writing a manuscript & Track Changes in Microsoft Word work, Workshop on Scientific Writing, University of Sarajevo, (Sarajevo/ BOSNIA AND HERZEGOVINA), (May 2015).
- Selecting title and writing abstract of manuscript, 5th International Scientific Writing Workshop, Ondokuz Mayıs University, (Samsun/TURKEY), (April/2015).
- Estimation of Volume and Volume Fraction on Macroscopic and Radiological Sections, Stereology & Neuroscience Symposium, Sokoine University of Agriculture, (Morogoro/ TANZANIA) (June 2014).
- New Methods to Obtain Quantitative Data from Direct Roentgenograms, 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University, (Samsun/TURKEY), (April/2014).
- Estimation of Volume and Volume Fraction on Macroscopic and Radiological Sections, 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University, (Samsun/TURKEY), (April/2014).
- Estimation of Volume and Volume Fraction on Macroscopic and Radiological Sections, First Asian and African Stereology Congress, Ondokuz Mayıs University, (Samsun/TURKEY) (November/2012).

Oral Presentations for the Conferences

- Bünyamin Sahin, **Amani, Elfaki**, Mert Nahir (2018). Normalized total brain, cortex and white matter volumes shows sex dependent differences between the control subjects and schizophrenics: A brain segmentation study. International Mediterranean Anatomy Congress and 19th National Anatomy Congress: Konya/ TURKEY.
- **Ahmed Mohammed Awad Elhaj**, Tahir Osman Ali, Bunyamin Sahin, Abdelgani Elshiekh, Amira Mohamed Osman, **Amani Abdelrazag Elfaki** (2018). The 7th Annual Psychiatric Conference: Khartoum/ SUDAN.
- **Abdelgani Elsheikh**, Tahir Osman Ali, Bunyamin Sahin, Amira Mohamed Osman, **Amani Abdelrazag Elfaki** (2018). Basal forebrain in the context of schizophrenia. The 7th Annual Psychiatric Conference: Khartoum/ SUDAN.

- Amira Mohamed Osman, Tahir Osman Ali, Bunyamin Sahin, Abdelgani Elsheikh, **Amani Abdelrazag Elfaki** (2018). The role of the thalamus in schizophrenia. The 7th Annual Psychiatric Conference: Khartoum/ SUDAN.
- **Amani Abdelrazag Elfaki**, Tahir Osman Ali, Abdelgani Elshiekh, Amira Mohamed Osman, Bunyamin Sahin (2018). Structural Analysis of the Basal Ganglia in Schizophrenia. The 7th Annual Psychiatric Conference: Khartoum/ SUDAN.
- **Amani Elfaki**, Tahir Osman Ali, Amira Mohamed Osman, Murat Golpinar, Fikri Ozdemir, Ibrahim Erkan, Mert Nahir, Bunyamin Sahin (2017). Midsagittal Surface Area of the Corpus Callosum in Schizophrenia: A Magnetic Resonance Imaging Analysis. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- **Amani Elfaki**, Aida Sarac Hadzihalilovic, Tahir Osman Ali, Abdelgani Elsheikh, Meltem Acar Gudek, Murat Golpinar, Ibrahim Erkan, Bunyamin Sahin (2017). Superior Temporal Gyrus and Primary Auditory Cortex in Schizophrenia: Automatic Brain Segmentation Study. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- Hosam Eldeen Gasmalla, Tahir Osman Ali, Bunyamin Sahin, Alaa Ibrahim, Fikri Ozdemir, Abdelrahman Mohamed, **Amani Elfaki** (2107). Volume of the Primary Motor Cortex among Healthy Adults Sudanese: an Automatic Brain Segmentation Study. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- Alaa Ibrahim, Tahir Osman Ali, Bunyamin Sahin, Hosam Eldeen Gasmalla, Fikri Ozdemir, Abdelrahman Mohamed, **Amani Elfaki** (2017). Volumetric MRI Analysis of Primary Sensory Cortex among Sudanese Healthy Adults. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- Bunyamin Sahin, **Amani Elfaki** (2017). Variables effecting the estimation of quantitative data on sectional radiological images. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- **Amani Elfaki**, Tahir Osman Ali, Mert Nahir, Ibrahim Erkan, Fikri Ozdemir, Murat Golpinar, Meltem Acar Gudek, Bunyamin Sahin (2017). Recent diagnosis of schizophrenia depending on the abnormality of subcortical structures. The 1st International Conference of Women in Science Women in Science Without Borders (WISWB): Cairo/ EHYPT.
- Wegdan Ahmed, Tahir Osman, Bunyamin Sahin, **Amani Elfaki** (2017). A New Approach for the Quantitative Evaluation of the Frontal Lobe Structures in Sudanese Population. The 1st International Conference of Women in Science Women in Science Without Borders (WISWB): Cairo/ EHYPT.
- **Amani Elfaki**, Aida Sarac Hadzihalilovic, Tahir Osman Ali, Abdelrazag Elfaki, Abdelgani Elsheikh, Amira Mohamed Osman, Bunyamin Sahin (2016). Neuroanatomical Changes of Patients with Schizophrenia in Association with the Clinical Symptoms: A Comparative Brain Segmentation Study. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
- **Amani Elfaki**, Mert Nahir, Meltem Acar Gudek, Tahir Osman Ali, Abdelgani Elsheikh, Amira Mohamed Osman, Bunyamin Sahin (2016). Quantitative Evaluation of the Frontal Lobe Abnormalities in Chronic Schizophrenia: a

- comparative brain segmentation study. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
- Bunyamin Sahin, Alaa Ibrahim, Tahir Osman Ali, Abdelrahman Mohamed, Fikri Ozdemir, Murat Golpınar, **Amani Elfaki** (2016). A New Approach for Evaluation of the Medial Surface Area of the Brain in Schizophrenia on Midsagittal Section. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
 - Bunyamin Sahin, **Amani Elfaki** (2016). Evaluation of the Efficiency of the BrainSuite and FreeSurfer for the Brain Segmentation and Parcellation. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
 - **Amani Elfaki** (2016). How do Sudanese's educators approach cultural diversity within the Turkish Universities settings? International conference on Sudanese - Turkish relations past to present and opportunities for the future: Khartoum/ SUDAN.
 - **Amani Elfaki**, Bunyamin Sahin, Tahir Osman, Abdelrazag Elfaki, Amira Mohamed, Fikri Ozdemir, Abdelgani Elsheikh (2016). Structural brain changes of the motor cortex in relation to positive symptoms in Sudanese patients with schizophrenia. The 5th International Psychiatric Conference: Khartoum/ SUDAN.
 - **Amani Elfaki**, Bunyamin Sahin, Tahir Osman, Abdelrazag Elfaki, Amira Mohamed, Fikri Ozdemir, Abdelgani Elsheikh (2016). Structural brain changes of the motor cortex in relation to negative symptoms in Sudanese patients with schizophrenia. The 5th International Psychiatric Conference: Khartoum/ SUDAN.
 - Amira Mohamed Osman, Abdelgani Elsheikh, Bunyamin Sahin, Tahir Osman, Abdelrazag Elfaki, Fikri Ozdemir, **Amani Elfaki** (2016). Structural brain changes of the sensory cortex in relation to clinical symptoms in Sudanese patients with schizophrenia: The 5th International Psychiatric Conference: Khartoum/ SUDAN.
 - **Amani Elfaki**, Tahir Osman Ali, Amira Osman, Meltem Acar Gudek, Murat Golpınar, Bunyamin Sahin (2015). Right-left and sex dependant differences of hippocampus and amygdala sizes and their relation to the clinical symptoms in schizophrenics: a comparative brain segmentation study. XXIV International Symposium on Morphological Sciences, University of Istanbul: Istanbul/TURKEY.
 - **Amani Elfaki**, Bunyamin Sahin, Tahir Osman, Abdelgani Elsheikh, Amira Mohammed Osman, Abdelrahman Mohamed, Murat Gölpınar (2013). Corpus Callosum Abnormalities in Schizophrenia. 15th National Anatomical Conference, Ondokuz Mayıs University: Samsun/TURKEY.
 - Bunyamin Sahin, **Amani Elfaki** (2012). Estimation of the Volume and Volume Fraction of Brain Structures in Schizophrenics. First Asian and African Stereology Congress, Ondokuz Mayıs University: Samsun/TURKEY.
 - **Amani Elfaki**, Tahir Osman, Abdelgani Elsheikh, Anas Hamdoun, Bunyamin Sahin (2012). Quantitative evaluation of the brain in schizophrenic patients using stereological methods on magnetic resonance images. Stereology, Spatial Statistics and Stochastic Geometry 7th International Conference, Charles University: Prague/ CZECH REPUBLIC.

- **Amani Elfaki**, Tahir Osman, Abdelgani Elsheikh, Anas Hamdoun, Bunyamin Sahin (2011). Quantitative evaluation of the cerebrum in schizophrenic patients using stereological methods on magnetic resonance mages. 10th Turkish Neuroscience Conference, Istanbul University: Istanbul/ TURKEY.
- **Amani Elfaki**, Tahir Osman, Abdelgani Elsheikh, Anas Hamdoun, Bunyamin Sahin (2010). Quantitative evaluation of the corpus callosum in schizophrenic patients using planimetric and stereological methods on magnetic Resonance images. International Life Sciences, Students' Conference: Radboud University, Nijmegen/ NETHERLANDS.
- **Amani Elfaki**, Tahir Osman, Abdelgani Elsheikh, Anas Hamdoun, Bunyamin Sahin (2010). Introduction to Basic Concepts and Methods of Modern Stereology. Conference of the Neuroimaging, Sudanese Society of Radiologists: Khartoum/ SUDAN.

Poster Presentations for the Conferences and Workshops

- Ahmed MohmmedAwad Elha, **Amani Abdelrazag Elfaki** (2018). Structural Changes of the Basal Ganglia in Patients with Huntington Disease, An MRI Study. International Mediterranean Anatomy Congress and 19th National Anatomy Congress: Konya/ TURKEY.
- **Amani Elfaki**, Tahir Osman Ali, Alaa Ibrahim, Ahmed Elhaj, Abdelrahman Mohamed, Bunyamin Sahin (2017). Volumetric changes of pineal gland in patients with schizophrenia. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- Murat Golpınar, **Amani Elfaki**, Fikri Ozdemir, **Alaa Ibrahim**, Bunyamin Sahin (2017). An Overview of the Hamstring Muscles: Variations and Clinical Significance. The 9th International Symposium of Clinical and Applied Anatomy: Innsbruck/ AUSTRIA.
- **Aida Sarac-Hadzihalilovic**, **Amani Elfaki**, Senad Sljuka, Izeta Aganovic-Musinovic, Almira Luinovic, Bunyamin Sahin (2016). Appliment of different calculation for formulas of theoretical weight in order to obtain body mass index by a standard general pattern. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
- **Amani Elfaki**, **Meltem Acar Gudek**, Mert Nahir, Tahir Osman Ali, Abdelgani Elsheikh, Amira Mohamed Osman, Bunyamin Sahin (2016). Parietal Lobe Abnormalities in Chronic Schizophrenia: a comparative brain segmentation study. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
- Bunyamin Sahin, **Murat Golpınar**, Alaa Ibrahim, Tahir Osman Ali, Mennan Ece Pirzirenli, Abdelrahman Mohamed, **Amani Elfaki** (2016). Evaluation of the Midsagittal Sectional Surface Area of the Cerebellum in Chronic Schizophrenia. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
- Fikri Ozdemir, **Mahmut Ozel**, Murat Golpınar, Mert Nahir, Ibrahim Erkan, Ahmed Ibrahim Abdi, **Amani Elfaki** (2016) The proportion of the contact surface area of the toes to the total contact surface area of foot. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.

- Gursel Ak Guven, **Amani Elfaki**, Alaa Ibrahim, Meltem Acar Gudek, Bunyamin Sahin (2016). Assessment of the Volume of the Scaphoid Bone on Magnetic Resonance Images Using the Stereological Techniques. The 8th International Symposium of Clinical and Applied Anatomy: Budapest/ HUNGARY.
- Wegdan Ahmed, Tahir Osman, Bunyamin Sahin, **Amani Elfaki** (2016). Age and Sex Dependent Analysis of the Cortical Structures of the Frontal Lobe in Sudanese Population. 5th General Assembly and International Conference, Kuwait Institute for Scientific Research: KUWAIT
- **Amani Elfaki**, Tahir Osman, Murat Golpinar, Mert Nahir, Alaa Ibrahim, Bunyamin Sahin (2015). Gender sensitivity of the colossal abnormalities associated with behavioural changes of schizophrenics. 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology: Dubai/ UNITED ARAB EMIRATE.
- **Amani Elfaki**, Tahir Osman Ali, Abdelgani Elsheikh, Murat Golpinar, Meltem Acar Gudek, Bunyamin Sahin (2015). Volumetric MRI study of superior and transverse temporal gyri and their relation to the clinical symptoms in schizophrenics. 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology: Dubai/ UNITED ARAB EMIRATE.
- Wegdan Ahmed, Tahir Osman, Bunyamin Sahin, and, **Amani Elfaki** (2015). Sex and Age Dependent Changes of the Cerebral Cortex in Young Adult Sudanese: A Brain Segmentation Study. 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology: Dubai/ UNITED ARAB EMIRATE.
- Sahar Shareef, Tahir Osman Ali, Bunyamin Sahin, Fatima ALhaider, **Amani Elfaki** (2015). Structural Alteration of Temporal Lobe in Autistic Males Using Stereological Methods on Magnetic Resonance Images. 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology: Dubai/ UNITED ARAB EMIRATES.
- **Amani Elfaki**, Tahir Osman Ali, Abdelgani Elsheikh, Meltem Acar Gudek, Murat Golpinar, Bunyamin Sahin (2015). Morphological changes of the temporal lobe structures in schizophrenia and their link to the clinical symptoms: a comparative brain segmentation study. XXIV International Symposium on Morphological Sciences, University of Istanbul: Istanbul/TURKEY
- Mennan Ece Pirzirenli, **Amani Elfaki**, Tahir Osman Ali, Amira Osman, Meltem Acar Gudek, Bunyamin Sahin (2015). Schizophrenics have smaller putamen and thalamus when it is compared to the healthy subjects. XXIV International Symposium on Morphological Sciences, University of Istanbul: Istanbul/TURKEY
- Bunyamin Sahin, **Amani Elfaki**, Murat Golpinar (2015). Evaluation of the software for anatomical brain segmentation and parcellation. Medicine and Pharmacy Faculty –22 Boulevard Gambetta: 76000 Rouen/ FRANCE.
- Murat Golpinar, Ferhat Say, **Amani Elfaki**, Ozdemir Fikri, Bunyamin Sahin (2015). A new approach for the assessment of the degree of scoliosis: projection areas per length squares. International Congress of Clinical Anatomy: Medicine and Pharmacy Faculty –22 Boulevard Gambetta: 76000 Rouen/ FRANCE.

- Fikri Ozdemir, Micheal Mazonacis, Bunyamin Sahin, **Amani Elfaki**, Ozcan Yilmaz, Mustafa Bekir Selcuk (2014). Assesment of the heart volume using CT and MR images. 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University: Samsun/TURKEY.
- Ilkay Camlidag, Mert Nahir, Fikri Ozdemir, **Amani Elfaki**, Murat Golpinar, Bunyamin Sahin (2014). Does the proportion of the brainstem change in the Parkinsonism? 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University: Samsun/TURKEY.
- Bunyamin Sahin, Emrah Altunsoy, Fikri Ozdemir, **Amani Elfaki**, Ilkay Camlidag, Meltem Acar Gudek (2014). Volume fraction of the cerebellum in Parkinson's patients. 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University: Samsun/TURKEY.
- Meltem Acar Gudek, **Amani Elfaki**, Fikri Ozdemir, Ilkay Camlidag, Emrah Altunsoy, Bunyamin Sahin (2014). Evaluation of the Volume and volume Fraction of the lateral ventricles in the Parkinsonism. 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University: Samsun/TURKEY.
- **Amani Elfaki**, Murat Golpinar, Ilkay Camlidag, Ersoy Kocabıçak, Mert Nahir, Bunyamin Sahin (2014). Changes of the Corpus Callosum in the Parkinsonism. 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University: Samsun/TURKEY.
- Wegdan Ahmed, Bunyamin Sahin, Tahir Osman, **Amani Elfaki** (2014). Volume and volume fractional changes of the white and grey matters in the cerebral hemispheres depending on the sex in young adult Sudanese. 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University: Samsun/TURKEY.
- Yasmin Altuntas, Bunyamin Sahin, **Amani Elfaki** (2012). Stereological comparison of the white and grey matter volume of the cerebellum between sexes African race. International Symposium of Clinical and Applied Anatomy, Ankara University: Ankara/TURKEY.
- **Amani Elfaki**, Tahir Osman, abdelgani Elsheikh, Anas Hamdoun, Bunyamin Sahin (2011). Evaluation of the intra-rater variation for the estimation of volume of cerebral structures using the Cavalieri principle on magnetic resonance images. Joint Meeting of Anatomical Societies, Uludag University: Bursa/ TURKEY.

Membership of Scientific Committee of the Conferences and Workshops

- 2nd Asian and African Stereology Congress and 7th International Scientific Writing Workshop, Turkish Society of Stereology, (Dubai/ UNITED ARAB EMIRATES) (December 2015).
- Workshop on Scientific Writing, University of Sarajevo, (Sarajevo/ BOSNIA AND HERZEGOVINA), (May 2015).
- 5th International Scientific Writing Workshop, Ondokuz Mayıs University, (Samsun/TURKEY), (April/2015).
- Stereology & Neuroscience Symposium, Sokoine University of Agriculture, (Morogoro – TANZANIA) (June 2014).
- 3rd Scientific Writing & Stereology Workshop, Ondokuz Mayıs University, Samsun/TURKEY. (April/2014).

- 15th National Anatomical Conference, Ondokuz Mayıs University, (Samsun/TURKEY) (September/2013).
- First Asian and African Stereology Congress, Ondokuz Mayıs University, (Samsun/TURKEY) (November/2012).

Publications

- Wegdan Ahmed, Tahir Osman, Bunyamin Sahin, **Amani Elfaki** (2021). The effect of sex and age on cortical grey and white matter volumes of frontal lobe. *J Exp Clin Med* 38(3): 227-234.
- Abd-Elmagid, A.E.M., **Elfaki, A.A.**, Şahin, B., Ali, Q.M. and Babikir, H.E. (2020), Curved length morphometry of the ear external canal as a diagnostic tool for otitis media. *The FASEB Journal*, 34: 1-1. doi:10.1096/fasebj.2020.34.s1.06684.
- Wegdan Ahmed, Tahir Osman, Bunyamin Sahin, **Amani Elfaki** (2020). Measurements of the cerebral cortical thickness in healthy Sudanese subjects during third and fourth decades of age. *Khartoum Medical Journal* 13(1): 1694 – 1699.
- Sahar Shareef, Tahir Ali, Bunyamin Sahin, **Amani Elfaki**, Raeesa Abdel Tawab Mohammad, Aly Mohamed Ahmed, Amal AlRabiah, Tahani Ahmad Al-Matrafi, Samar Al-Saggaf, Abdul-Aziz Haji Ahmed, Muhammad Atteya (2018). Structural alteration of motor and sensory cortices in Parkinson's disease using magnetic resonance imaging: Automatic brain segmentation. *International Journal of Advanced and Applied Sciences* 5(9): 101-109.
- **Amani Elfaki**, Tahir Osman Ali, Abdelgani Elsheikh, Ibrahim Erkan, Meltem Acar Gudek, Murat Golpinar, Bunyamin Sahin (2017). Morphological changes of the temporal lobe structures in schizophrenia and their link to the clinical symptoms regarding the gender difference and asymmetry. *Journal of experimental and clinical medicine: J. Exp. Clin. Med.*34 (2): 99-110.
- **Amani Elfaki**, Tahir Osman Ali, Amira Mohamed Osman, Meltem Acar Gudek, Murat Golpinar, Ibrahim Erkan, Bunyamin Sahin (2016). Right-left and sex dependent differences of hippocampus and amygdala sizes and their relation to the clinical symptoms of schizophrenia: a comparative brain segmentation study. *Folia Med. Fac. Med. Univ. Saraeviensis* 51(2): 62-69.
- Aida Sarac-Hadzihalilovic, **Amani Elfaki**, Senad Sljuka, Izeta Aganovic-Musinovic, Almira Luinovic, Bunyamin Sahin (2016). Appliment of different calculation for formulas of theoretical weight in order to obtain body mass index by a standard general pattern. *Folia Med. Fac. Med. Univ. Saraeviensis* 51(2): 92-96.
- **Elfaki A**, Elfaki A, Osman T, Elsheikh A, Sahin B, Elsheikh A, Mohamed A, Hamdoun A, Mohammed A, (2013). Stereological Evaluation of Brain Magnetic Resonance Images of Schizophrenic Patients. *Image Analysis & Stereology* 32: 145-153.
- Sahin B, **Elfaki A** (2012). Estimation of the Volume And Volume Fraction of Brain and Brain Structures on Radiological Images. *NeuroQuantology* 10(1): 87-97.
- **Elfaki A**, Osman T, Sahin B, Elsheikh A, Osman A (2012). Application of Stereological Methods to Study White and Grey Matter in Schizophrenic Patients. *Khartoum Medical Journal (KMJ)* 4(3): 632-643.

- **Elfaki A**, Osman T, Sahin B, Elsheikh A, Mohammed A (2012). Volume and Volume Fraction of the Lateral Ventricles in Schizophrenic Patients. Sudan Medical Monitor (SMM) 7(1): 37-45.
- **Elfaki A**, Osman T, Elsheikh A, Hamdoun A, Sahin B (2011). Evaluation of the Intra-Rater Variation for the Estimation of Volume of Cerebral Structures Using the Cavalieri Principle on Magnetic Resonance Images. Journal of Experimental and Clinical Medicine 28: 22-25.
- **Elfaki A**, Osman T (2010). Measurements of the Lateral Ventricles in Normal Subjects. Science and Technology University Magazine 2: 26-36.

Published Book

- Amani A Elfaki. Aida Sarac H. Mert Nahir, Qurashi M Ali (2020). Guide to Practical Anatomy. National University Publishing House: First Edition.

Books for Publications

- Hand-out of MR Images Analysis

Supervision

- **MSc. Thesis of:** Saif Ali Badawi
 - **Title:** Average of Intracranial Volume in Sudanese using MRI based on Stereological Methods
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **MSc. Thesis of:** Omer Mohamed Ali
 - **Title:** Measurements of corpus callosum and its subdivisions on MRI brain normal individuals with regard to the gender difference
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **MSc. Thesis of:** Salih Mohamed Hassan
 - **Title:** Estimation of Volume and Volume fraction of Hippocampus on MRI
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **MSc. Thesis of:** Mouaz Abdallah Sheichmonwar
 - **Title:** Profile measurements of motor cortex on MRI brain of normal individuals with regard to the gender difference
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **MSc. Thesis of:** Abdalla Fathi Ballah
 - **Title:** Measurements of Sensory Cortex on MRI of Normal Individuals with Regard to the Gender Difference
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.

- **MSc. Thesis of:** Moaz Kamaleldin Eltayeb
 - **Title:** The relationship between the Degree of Spinal Canal Stenosis and the Severity and Progress of Neurologic Symptoms
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Wegdan Mohammed Mustafa
 - **Title:** Quantitative Evaluation of the Frontal Lobe Structures in Sudanese Population on Magnetic Resonance Imaging Using Brain Segmentation.
 - **Institution:** National Ribat University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Sahar Hussain Shareef
 - **Title:** Quantitative Evaluation of the Motor and Sensory Cortex of Parkinsonism Using Brain Segmentation.
 - **Institution:** National Ribat University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Ahmed Elsir Mokhtar Abd-Elmagid
 - **Title:** Quantitative Evaluation of the Intracranial Structures in Otitis Media Using Stereological Methods on Magnetic Resonance Images
 - **Institution:** Gezira University, Faculty of Graduate studies and Scientific Research. Wad Madni, SUDAN.
- **PhD. Thesis of:** Khalid Mohammed Taha
 - **Title:** Auto segmentation of hippocampus, amygdala and prefrontal cortex in depressive disorder patients.
 - **Institution:** National Ribat University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Dalya Ibrahim Ahmed
 - **Title:** Structural Changes of the Brain among Sudanese Asthmatic Patients.
 - **Institution:** National Ribat University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Tamer Sayed Jubartallah
 - **Title:** Quantitative Evaluation of the Brain Structures in Aging with Memory Disturbance Correlation
 - **Institution:** National Ribat University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Abdellah Elamin
 - **Title:** Brain Gray and White Matter Changes in Sudanese Migraine Patients.
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Selma Shimet
 - **Title:** The Prefrontal Cortex Structural Changes in Patients in Post-traumatic Stress Disorder.
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.

- **PhD. Thesis of:** Hisham Mohamed
 - **Title:** Structural Changes of the Brain in Diabetic Patients.
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.
- **PhD. Thesis of:** Ahmed Elhaj
 - **Title:** Neuroimaging in Parkinsonism
 - **Institution:** National University, Faculty of Graduate studies and Scientific Research. Khartoum, SUDAN.

External Examiner for the Following:

- **University of Shendi, Shendi/ SUDAN**
 - PhD. Thesis: Comparison Between Fingerprint Pattern of the Siblings and their Parents.
 - Sami Mohamed Ahmed Abdalhalim
- **Alzaiem Alazhari University, Khartoum North/ SUDAN**
 - PhD. Thesis: The effect of gestational diabetes on the morphology of placenta, umbilical cord and neonatal weight in Sudanese.
 - Mohamed Nouh Mohamed Ahmed
- **Gezira University, Wad Madni/ SUDAN**
 - MSc. Thesis: Prevalence and Morphology of Gantzer's muscle: Cadaveric Based Study.
 - Wafa Hago Elnour Mohammed
- **Gezira University, Wad Madni/ SUDAN**
 - MSc. Thesis: Index of Congenital Anomalies of Urinary System among Sudanese on Hemodialysis at Gezira Hospital for Renal Diseases and Surgery; Sonographic Study
 - Prof. Taha Ahmed Elmukashfi Elsheikh

General Interests

- MR Images Analysis of Brain Structures.
- The Software that Apply the Talaraich Atlas and MIN Atlas.
- Volume and Volume Fraction Estimations with the Combination of Stereological Methods on CT scan and MR imaging techniques.
- Conferences, Workshops, and Special Lectures in the Field of Human Anatomy and Neuroscience.

Research Experience

- Progress in Deep Brain Stimulation in Movement Disorder.
- Brain MRI Images Analysis Using Automatic Segmentation.
- Macroscopic Structures Estimation Using Cavalieri Principle of the Stereological Methods and Microscopic Structures Estimation Using Optical Disector.

Ongoing Research

- Neuroimaging in Huntington's disease. National University, Khartoum/ SUDAN
- Structural Changes of the Brain in Diabetic Patients. National University, Khartoum/ SUDAN
- Structural Changes of the Brain in Patients in Post-traumatic Stress Disorder. National University, Khartoum/ SUDAN
- Brain Changes in Sudanese Patients with Migraine. National University, Khartoum/ SUDAN
- The Role of the Pineal Gland in the Breast Cancer. National University, Khartoum/ SUDAN
- Sub-cortical Structures in
- Patients with Chronic Schizophrenia: Quantitative MRI Study. Ondokuz Mayıs University, Samsun/ TURKEY.
- Morphology of the Corpus Callosum in Neurodegenerative Disease: Ondokuz Mayıs University, Samsun/ TURKEY.
- MRI Study of the Motor and Sensory Cortices in Neurodegenerative Disease: Ondokuz Mayıs University, Samsun/ TURKEY.
- Structural Alterations of the Temporal Lobe in Autism. National Ribat University, Burri/SUDAN.

Membership of Scientific Organizations

- Organization for Women in Science for the Developing World (OWSD).
- Sudanese women in science organization (SWSO).
- Turkish Society of Stereology.

Computer Skills and Competences

- **Applications**
 - Microsoft Office applications
 - Microsoft Project
 - Reference Manager Software
 - EndNote Library Software
- **Stereological Software**
 - 3D Slicer Software
 - DicomWorks Software
 - ImageJ Software
 - MRicro Software
 - Onis Software
 - BrainSuite Software
 - ITK Software
 - FreeSurfer Software
- **Statistical Packages**
 - Epi Info
 - SPSS for windows

Referees

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