

# CURRICULUM VITAE

\*Name: **KEVIN AANYU**

\*Date of birth: **30.03.1978**

\*Sex: **FEMALE**

\*Nationality: **UGANDAN**

## **Education:**

2011 PhD: Geosciences: Disputation date: 23.09.2011.

Department of Tectonophysics, Faculty of Chemistry, pharmacy and Geosciences; Johannes-Gutenberg University, Mainz-Germany:

Title of thesis: Implications of regional fault distribution and kinematics for the uplift of rift flanks around the Rwenzori Mountains, Southwestern Uganda (161pp).

2004 Master: Geology: Department of Geology, Makerere University, Kampala-Uganda

Title of thesis: Structure and tectonic evolution of the Aswa shear zone between Sironko and Soroti, Eastern Uganda. Unpublished MSc. thesis, Makerere University Kampala-Uganda (157pp).

2004 BSc (Hons) Geology, Chemistry (second-class upper);  
Department of Geology, Faculty of Science, Makerere University Kampala-Uganda.

## **Work experience:**

2012-to date Lecturer, Department of Geology and Petroleum Studies, Makerere University, Kampala

2006-2011 Assistant Lecturer, Department of Geology and Petroleum Studies, Makerere University, Kampala

2004-2006 Teaching Assistant, Department of Geology and Petroleum Studies, Makerere University, Kampala

2002-2004 Geologist, Department of Geological Survey and Mines, Entebbe-Uganda

## **Related Short course trainings attended:**

2018 (Oct)-  
2019 (Mar) Doctoral Supervisory Training; Makerere University

2013 (Sept) Introduction to PETROMODE petroleum systems modelling software. Delivered at Makerere University by Sami Sheyh Husein; Schlumberger Information Solutions.

2013 (Feb) Rift tectonics and sedimentation; delivered at Makerere University by Prof. Rob Gawthorpe; University of Bergen(UiB) Norway.

2012 (Oct) Reservoir geology and log analysis; delivered at Makerere University by Prof. M. Mille; Total professors Association (TPA).

2012 (May) Field course: Deposition and deformation of clastic sediments on the Colorado Plateau; by Prof. Haakon Fossen and John, A. Howell of University of Bergen.

## **Administrative experience**

- 2016-present* Project coordinator, Departmental undergraduate field geological mapping projects
- 2017-present* Examinations Moderation Committee, Department of Geology and Petroleum Studies-Makerere University
- 2015-2018* Acting Head at Department of Geology and Petroleum Studies-Makerere University, from time to time as requested
- 2014-present* Participation, as often as invited, with doctorate committees, Viva voce panels for Master dissertations, departmental higher degrees committee, departmental staff recruitment committees, etc;
- 2012-present* Coordination and supervision of undergraduate dissertations, Department of Geology and Petroleum Studies

## **Teaching activities**

- 2005-present* Field training and supervision for undergraduate field geological mapping projects and dissertations;
- 2012-present* Graduate field course trainings for MSc Petroleum Geoscience
- 2012-present* Supervision of Makerere University undergraduate students on internships/industrial training
- 2004-present* Undergraduate and graduate courses in structural geology & tectonics; Health, Safety and Environmental aspects of Petroleum development; Natural hazards; and geomorphology.

## **Supervision of graduate students and research fellows**

Since 2013- to date present: 1 PhD in progress; 14 MSc completed, 3 MSc in progress

## **Research**

- 2020 – 2021* Dry Rifting in Albertine-Rhino Graben, Uganda; US-National Science Foundation Grant
- 2020 – 2021* Participatory Futures Project; UKRI - GCRF Clusters Grant (Sustainable Futures in Africa Network)
- 2017 – 2019* Socio-ecological interdisciplinary research with the Sustainable Futures in Africa (SFA) Network in communities of Apala/Abia Sub-counties in Alebtong district and Kitoba Sub-county, Kibanjwa village in Hoima district
- 2006 – 2011* Participated in research with RIFTLINK project component titled “Rift Dynamics, Uplift and Climate Change in Equatorial Africa: Interdisciplinary Research Linking Asthenosphere, Lithosphere, Biosphere and Atmosphere”. Project B1; Structural Expression of Extreme RiftFlank Uplift. Funded by the German research Foundation (Deutscher Forschungs Gemeinschaft-DFG)

## Key interests

Structural geology and tectonics, analysis of sedimentary basins and HSE aspects of the petroleum industry, geomorphology and natural hazards.

## Other currently held responsibilities:

Members of the Vice Chancellors Standing 100 committee on sexual harassment, Makerere University

Member, Board of Directors of the Petroleum Authority of Uganda

## Publications:

(Other authors) ..., **Aanyu, K.**, Nagudi, B., 2023. **Chapter 3: Oil and Gas Exploration, Development and Production in Emerging Markets and Developing Economies.** In: *The Economics of the Global Oil and Gas Industry Emerging Markets and Developing Economies, Part II: Oil and Gas Development and Fiscal Arrangement.* 1st edition. Forthcoming by Routledge. (eds) Joshua Yindenaba Abor, Amin Karimu, Runar Brännlund; 336pp. ISBN 9781032324425

Perry, M., Robinson, J., Zaman, S., Duclos, V., Checchia, V., Catanzano, B., Barrett, B., **Aanyu, K.**, McLean, H., Modise, O.M., Strachan, Z., Todd, H., Sharp, J., (Contributors) 2020. A Critical Resource for Ethical International Partnerships: Whose world-view has framed your research? DOI 10.17605/OSF.IO/DJTN4

Jess, S., Koehn, D., Fox, M., Enkelmann, E., Sachau, T., **Aanyu, K.** (2020). Paleogene initiation of the Western Branch of the East African Rift: The uplift history of the Rwenzori Mountains, Western Uganda. *Elservier, Earth and Planetary Science Letters*, 552, (116593) 1-13. <https://doi.org/10.1016/j.epsl.2020.116593>

Hollinsworth, A.D., Koehn, D., Dempster, T.J., **Aanyu, K.**, 2019. Structural controls on the interaction between basin fluids and a rift flank fault: Constraints from the Bwamba Fault, East African Rift. *Journal of Structural Geology* 118, 236-249. <https://doi.org/10.1016/j.jsg.2018.10.012>

Koehn, D., Steiner, A., **Aanyu, K.**, 2019. Modelling of extension and dyking-induced collapse faults and fissures in rifts. *Journal of Structural Geology* 118, 21-31. <https://doi.org/10.1016/j.jsg.2018.09.017>

Koehn, D., Link, K., Sachau, T., Passchier, C. W., **Aanyu, K.**, Spikings, A., Harbinson, R., 2016. The Rwenzori Mountains, a Palaeoproterozoic crustal shear belt crossing the Albertine rift system. *International Journal of Earth Sciences (Geol Rundsch)* 105, 1693–1705. <https://doi.org/10.1007/s00531-015-1167-1>

**Aanyu, K.**, Koehn, D., 2011. Influence of pre-existing fabrics on fault kinematics and rift geometry of interacting segments: Analogue models based on the Albertine Rift (Uganda), Western Branch-East African Rift System. *Journal of African Earth Sciences* 59, 168–184, <https://doi.org/10.1016/j.jafrearsci.2010.10.003>

Koehn, D., **Aanyu, K.**, Haines, S., Sachau, T., 2008. Rift nucleation, rift propagation and the creation of basement micro-plates within active rifts. *Tectonophysics* 458, 105-116.

Koehn, D., Lindenfeld, M., Ruempker, G., **Aanyu, K.**, Haines, S., Passchier, C. W., Sachau, T., 2010. Active transection faults in rift transfer zones: evidence for complex stress fields and implications for crustal fragmentation processes in the western branch of the East African Rift. *International Journal of Earth Sciences (Geol Rundsch)* 99 (7), 1633–1642, doi: 10.1007/s00531-010-0525-2

Link, K., Koehn, D., Barth, M., Tiberindwa, J., Barifajjo, E., **Aanyu, K.**, Foley, S., 2010. Continuous cratonic crust between the Congo and Tanzania blocks in western Uganda. *International Journal of Earth sciences* 99 (7), 1559–1573, doi: 10.1007/s00531-010-0548-8

## Conference abstracts

- Koehn, D., Aanyu, K., Haines, S. and Sachau, T. (2007): Modelling Rift Segment Interaction, Micro-plate Rotation and Inversion In the EARS. Abstract volume for the International Conference on the East African Rift System (EARS), 23-25 July 2007, Kampala, Uganda.
- Haines, S., Koehn, D., Aanyu, K., Sachau, T., Van der Pluijm, B (2007): Clay Mineral Assemblages in Fault Gouges of the Rwenzori Mountains, Uganda. Abstract volume for the International Conference on the East African Rift System (EARS), 23-25 July 2007, Kampala, Uganda.
- Koehn, D., Aanyu, K., Haines, S. and Sachau, T. (2007): Rift Nucleation, Rift Propagation and the Creation of Basement Micro-plates Within Active Rifts. Geophysical Research Abstracts Vol.9,11381. European Geosciences Union (EGU) General Assembly 2007, Vienna, Austria.
- Koehn, D., Lindenfeld, M., Rumpker, G., Aanyu, K., Haines, S., Passchier, C.W., Sachau, T., (in review, Geology) Fragmentation processes, transection faults and rotating stress fields in rift transfer zones.
- Koehn, D., Aanyu, K., Haines, S., Sachau, T., (2006) Rifting and the creation of microplates. AGU San Francisco.
- Koehn, D., Aanyu, K., Haines, S., Sachau, T., (2007) Rift nucleation, rift propagation and the creation of basement micro-plates within active rifts. EGU General Assembly.
- Koehn, D., Aanyu, K., Haines, S., Sachau, T., (2007) Rift nucleation and rift propagation. DRT Milano.
- Koehn, D., Lindenfeld, M., Ruempker, G., Aanyu, K. (2008) Abnormal fault populations in rift-transfer settings, EGU General Assembly.
- Koehn, D., Lindenfeld, M., Ruempker, G., Aanyu, K., Haines, S., Sachau, T., (2008) Local inversion triggered by micro-plate rotation. TSK structural geology meeting Karlsruhe.
- Koehn, D., Aanyu, K., Rumpker, G., Lindenfeld, M., Haines, S., Stamps, S., Calais, E., Sachau, T., (2008). Neotectonics of the Albertine rift and the Rwenzori mountains, Uganda. RiftLink meeting, Neustadt.
- Sachau, T., Koehn, D., Aanyu, K., Haines, S., (2008). Micro-plate capturing and related rift flank uplift. RiftLink meeting, Neustadt.
- Koehn, D., Lindenfeld, M., Ruempker, G., Aanyu, K., Haines, S., Sachau, T., 2008, Mountain building in extensional terrains, Geo 2008, Aachen.
- Aanyu, K., Koehn, D., Link, K., Haines, S., Passchier, C., Sachau, T., (2008). Basement geology of the Rwenzori mountains, Uganda. RiftLink meeting, Neustadt.

## Academic Theses

- Aanyu Kevin (2011): Implications of regional fault Distribution and Kinematics for the uplift of Rift flanks around the Rwenzori Mountains, Southwestern Uganda. PhD thesis, Johannes Gutenberg University, Mainz-Germany.
- Aanyu Kevin (2004): Structure and Tectonic Evolution of the Aswa Shear Zone between Sironko and Soroti, Eastern Uganda. An unpublished MSc. thesis, Makerere University Kampala, Uganda.