

Dr. S. K. Kwofie

NATIONALITY: Ghanaian

SUMMARY

Dr. Samuel Kojo Kwofie is a Lecturer in the Biomedical Engineering Department of the Faculty of Engineering Sciences at the University of Ghana, where he teaches and conducts research addressing local issues in biomedical engineering and healthcare industry. Currently, he is exploring leveraging his involvement in engineering education as a platform to implement broad spectrum of engineering projects. Additionally, he has special interest in undertaking large-scale project in environmental impact assessment pertaining to mining as well as oil and gas. Samuel has considerable experience in project and policy development, implementation and evaluation. Also, he possesses expertise in Intellectual Property (IP) management and commercialization of end-stage innovative research into market viable spin-off companies. After completing his PhD in Bioinformatics from the University of the Western Cape in South Africa, Samuel taught research design and methodology, as well as data analysis courses to post graduate students and undertook research in both biomedicine and science education policy. Previously, Samuel worked as Marketing and Research Manager at Kinapharma Limited, where he managed designated business activities of the foremost pharmaceutical company in West Africa. Samuel has presented talks at numerous international conferences and workshops, and won various accolades for his professionalism and hard work.

EDUCATION

- **PhD in Bioinformatics**, University of the Western Cape, South Africa, 2011
- **MSc in Structural Biology**, University of Cape Town, South Africa, 2006
- **Post Graduate Certificate in Education- Cum Laude**, University of the Western Cape, South Africa, 2007
- **BSc Hons in Biochemistry**, Kwame Nkrumah University of Science and Technology, 2000
- **Certificate Course in Marketing, Advertising and Public Relations**, 1-26 September 2003 Institute: Ghana Institute of Journalism, Accra- Ghana

EMPLOYMENT RECORD

Lecturer, 20-08-2013 – present, Department of Biomedical Engineering, Faculty of Engineering Sciences, University of Ghana, Legon, Accra, Ghana

Postdoctoral Research Fellow: 01-02-2012 to 31-12-2012, Faculty of Natural Sciences; University of the Western Cape, South Africa.

Academic Researcher and Co-ordinator of Postgraduate Studies/Associate Lecturer (Part-time): 01-02-2012 to 31-12-2012, Division for Postgraduate Studies; University of the Western Cape, South Africa.

Science Education Lecturer and Researcher (Part-time): 2009- December 2011, School of Science and Mathematics Education (SSME), Faculty of Education, University of the Western Cape.

Graduate Research Intern: 2006-2007, National Bioinformatics Network (NBN), 2nd floor, BTG Building, Golf Park1 Raapenberg Rd, Pinelands 7405, P.O. Box 268, Howard Place, 7450. Cape Town- SA

Marketing and Research manager/Regional Manager- Kinapharma Limited 10-07-2003 to 9-02-2004

PROFESSIONAL EXPERIENCE

Biomedical Engineering Projects

- Hospital and Clinical Engineering
- Design of low-cost biomedical devices
- Health informatics and patient data management systems
- Biomedical Software and database development
- Drug development
- Biotechnology
- Modeling and simulation
- Electronic and biometric voting systems
- Bioinformatics and genomics
- Medical Research and reporting
- Health policy and molecular epidemiology

General Engineering Projects

- Environmental impact assessment for mining, oil and gas

Other Projects

- Project proposal and implementation
- Data analysis and statistics
- Science Education Research and curricula development
- Bioscience enterprise and business development
- Development and drafting of Intellectual Property (IP) Policies
- Commercial exploitation of innovative IPs via spin-off companies

PROFESSIONAL AFFILIATIONS

- Member: Ghana Biomedical Convention: 2008-present
- Founding member, Board Member and Secretary to Board- Ghana Biomedical Convention: 2008- 2010
- Member, International Society for Computational Biology (ISCB): 2007 and 2011
- African Society for Bioinformatics and Computational Biology (ASBCB): 2009- 2012
- Member, Southern African Association for Research in Mathematics, Science and Technology (SAARMSTE): 2011-2012

PUBLICATIONS

- **Kwofie, S. K.**, Radovanovic, A., Sundararajan, V. S., Maqungo, M., Christoffels, A., & Bajic, V. B. (2011). Dragon exploratory system on Hepatitis C Virus (DESHCV). *Infect Genet Evol.* 11(4), 734-739.
- Maqungo, M., Kaur, M., **Kwofie, S. K.**, Radovanovic, A., Schaefer, U., Schmeier, S., et al. (2011). DDPC: Dragon Database of Genes associated with Prostate Cancer. *Nucleic Acids Res*, 39(Database issue), D980-985.
- **Kwofie, S. K.**, Schaefer, U., Sundararajan, V. S., Bajic, V. B., & Christoffels, A., (2011). Hepatitis C Virus Protein Interaction Database (HCVpro). *Infect Genet Evol.* 11(8),1971-1977
- **Kwofie, SK.** et al. (Eds.) (2013). Proceedings of the 21st Annual meeting of the Southern African Association for Research in Mathematics, Science and Technology (Book of Long Paper), University of the Western Cape, Cape Town. 14- 17 January 2013.
- **Kwofie, SK.** et al. (Eds.) (2013). Proceedings of the 21st Annual meeting of the Southern African Association for Research in Mathematics, Science and Technology (Book of Abstracts), University of the Western Cape, Cape Town. 14- 17 January

2013.

- **Kwofie, S. & Ogunniyi, M.B. (2011).** Effects of dialogical argumentation-based workshops on primary and secondary school teachers' ability to co-construct the concept of solubility. Proceedings of 19th Annual meeting of the Southern African Association for Research in Mathematics, Science and Technology (SAARMSTE), 18-21 January 2011 at North-West University, Mafikeng. Pages 277-286.
- **Kwofie, S. & Ogunniyi, M.B. (2011).** Using food science concepts to enact science-indigenous knowledge systems classroom-based discourses. Proceedings of the 19th Annual meeting of the Southern African Association for Research in Mathematics, Science and Technology (SAARMSTE), 18-21 January 2011 at North-West University, Mafikeng. Pages 387-408.
- Ogunniyi, M.B. & **Kwofie, S. (Eds.) (2011).** Proceedings of the 3rd SIKSP International Conference on the Integration of Science and Indigenous Knowledge Systems. Cape Town: University of the Western Cape, pp.110.