



ACADEMIC STAFF PROFESSIONAL PROFILE FORM

1. Personal Data

Name: Samuel C. J. Otor.
Title/Qualifications: PhD
Department: Environmental Sciences.
Contact Address: School of Environmental Studies, Kenyatta University. P. O. Box 34844 – 00100, Nairobi, Kenya.
Mobile Phone: +254-725634258.
Position: Senior Lecturer.
Area of Specialization: Statistics/Demography.
Research Interests:
<ol style="list-style-type: none"> 1. Mathematical model building and simulation of human fertility behaviour in the biosocial context. 2. Research on the design and measurement of adolescent sexual behaviour –basis for anticipatory rather than remedial policy making. 3. Environmental impacts of human population dynamics / Demographic impact assessment (DIA). 4. Impacts of environmental and occupational exposures on human reproduction. 5. Gender inequality and reproductive health. 6. Communicating population, health and environmental research to policy makers. 7. Attrition and survival analysis of human reproductive phenomena.

2. Conference Presentations(Selected)

S/No	Presenter(s)	Title of Paper presented	City/Country	Date of Conference	Funding (US\$)
1.	Otor, Samuel C.J. and P.C. Saxena	On Estimating Premarital Conception and Fecundability from a Probability Model Describing Wider Heterogeneity in First Conceptive Delays.	12 th Annual Conference of the Indian Society of Probability and Statistics (ISPS), Bombay, India.	December 3-7, 1990.	-
2.	Otor, Samuel C. J.	Primary and Secondary Sterility in Pathologically and Infertility-Afflicted	10 th Annual Conference of the Indian Society of Medical	November 14-18, 1995.	-

		Population: Relationship Re-examined.	Statistics(ISMS), Bombay, India.		
3.	Otor, Samuel C. J. and Arvind Pandey.	Fertility Transition in Sudan: A Biosocial Perspective.	Census Users Conference, Khartoum, Sudan.	September 17, 1995.	-
4.	Otor, Samuel C. J.	Estimating Premarital Conceptions and Fecundability from First Coceptive Delays Using Inflated Probability Model.	Organized by International Biometrics Society, Nairobi, Kenya.	October 3, 1996.	-
5.	Pandey, Arvind and Samuel C. J. Otor.	Infertility in Sub-Saharan Africa: A Case Study of Sudan.	International Union for the Scientific Study of Population (IUSSP), Manila, Philippines.	September 24-27, 1996.	-
6.	Otor, Samuel C. J.	Heterogeneous Social Environment and Land Care and Community Stewardship in the Eastern Africa Region: A Looming Social Dilemma.	9 th Annual Conference of the Eastern Africa Environment Network (EAEN), Nairobi, Kenya.	May 28-29, 1999.	-
7.	Otor, Samuel C. J.	Female Adolescent Transition to Coitus: A Probability Life-Length Model.	2 nd Biennial Conference of the Population Association of Kenya (PAK), Nairobi, Kenya.	January 23-26, 2000.	-
8.	Otor, Samuel C. J.	Population Displacement in South Sudan: Implications for Network for Environmental Conservation.	10 th Annual Conference of EAEN, Nairobi, Kenya.	May 26-27, 2000.	-
9.	Otor, Samuel C. J.	Gender and Empowerment: An Intervention for Intra-Household Micro- Networking in Eastern Africa Region.	11 th Annual Conference of EAEN, Nairobi, Kenya.	May 25-26, 2001.	-

10.	Mugendi, D. N., ..., Samuel C. J. Otor,	Soil Fertility Strategies for Improved Food Production in Central Kenya.	African Crop Science Conference, Lagos, Nigeria.	November, 2001.	-
11.	Mucheru, M. W., ..., and Samuel C. J. Otor	Enhancement of Food Productivity Using Locally Available Soil Replenishment Inputs in Central Kenya.	19 th Soil Science Society of East Africa (SSSEA) Conference, Moshi, Tanzania.	December 2-7, 2001.	-
12.	Otor, Samuel C. J.	Heterogeneous Social Environment and Optimal Family Size Strategies in Sub-Saharan Africa: Implications for Empirical Research.	3 rd Biennial Conference of PAK, Machakos, Kenya.	27 th Feb. – 1 st March, 2002.	-
13.	Kangai, R.A., Mucheru, M. W., Mugendi, D. N., Otor, S. C. J. and Waswa, W. S.	Pre-survey of the Adoption Potential of Soil Fertility Improvement Strategies in Chuka, Eastern Kenya.	20 th SSSEA Conference, Mbare, Uganda.	December 1 – 6, 2002	-
14.	Mutegi, J.K., Mugendi, D. N., Kung'u, J. B., Otor, S. C.J. and Mugwe, J.	Farmers' Evaluation of Counter Hedges for Soil Conservation and Nutrient Cycling: A Case Study of Central Highlands of Kenya.	20 th SSSEA Conference, Mbare, Uganda	December 1 - 6, 2002.	-
15.	Kangai, R. A., Mugendi, D. N., Mucheru, M. W., Otor, S. C. J. , Waswa, B. S., Kung'u, J. B. and Mugwe, J.	Cost-Benefit Analysis of Farmer-Tested Soil Fertility Replenishment Technologies in Kirege Location, Chuka Division, Eastern Kenya.	21 st SSSEA Conference, Eldoret, Kenya.	December 1 - 5, 2003.	-
16.	Mucheru, M., Mugendi, D. N., Kangai,	Farmer Participation in Enhancing Food Productivity	International Symposium, Kenyatta University,	April 14-16, 2003.	-

	R., Kung'u, J., Mugwe, J. and Otor, S. C. J.	through Agroforestry in the Central Highlands, Kenya.	Nairobi, Kenya.		
17.	Otor, Samuel C. J.	The Ecoregional Model and its Implications for Environmental Justice in Africa: overthrowing the False God of Modernization Paradigm.	14 th Annual Conference of EAEN, Nairobi, Kenya.	May 14-15, 2004.	-
18.	Otor, Samuel C. J.	Environmental Issues in Sudan: Addressing the Normative and Post-War Challenges for Sustainable Use of Nature.	16 th Annual Conference of EAEN, Nairobi, Kenya.	May 26-27, 2006.	-
19.	Otor, Samuel C. J.	Biological Predisposition and Cultural Norms in Female Adolescent Sexual and Reproductive Behaviours: Health Risks and Policy Implications.	Conference on 'Integration on HIV/AIDS, Sexual and Reproductive Health in Africa', Kenya Institute of Education (KIE), Nairobi, Kenya.	May 23-24, 2008.	
20.	Otor, Samuel C. J.	Energy Sourcing and Expenditure, and Gender Prejudice: impacts on Women's Status and Reproductive Health.	19 th Annual Conference of EAEN, Nairobi, Kenya.	May 22-23, 2009.	

3. Research

S/ No	Researcher	Year	Title	Donor	Funding (US\$)

4. Funded projects

S/ No	Researcher (s)	Year	Title	Granting Body	Funding (US\$)

1.	Eucharia Kenya (KU Liaison Officer); Samuel Otor and Ethel Monda (Collaborators).	2007/2008	Nurturing Grant Proposal to facilitate Training of Master of Science Students at Kenyatta University.	Regional Universities Forum(RUFORUM) for Capacity Building in Agriculture, based in Kampala, Uganda.	66,250

5. Publications(selected)

S/No.	Author	Year	Title	Journal/Book Title	ISBN/ISSN Reference No.
1.	Otor, Samuel C. J.	1994	Primary and Secondary Sterility in Pathologically, and Infertility-Afflicted Populations: Relationship Re-examined.	Biosocial Aspects of Human Fertility – Models and Applications. Pp. 115-132.	ISBN: 81-7018-802-4
2.	Otor, Samuel C. J. and Arvind Pandey	1998	Puberty and the Family Formation Process in Sudan: Age-a-menarche Differential Fecundity Hypothesis Revisited.	Journal of Social Biology. 45(3-4): 246-259.	ISSN: 0037-766X
3.	Otor, Samuel C. J. and Arvind Pandey	1999	Adolescent Transition to Coitus and Pre-marital Childbearing in Sudan: A Biosocial Context.	Journal of Biosocial Science. 31(3): 361-374.	
4.	Otor, Samuel C. J. and Arvind Pandey.	2001	Child Spacing in Sudan: An Indirect Estimation from the 1993	Dynamics of Population Change: Emerging Issues of the 21 st	ISBN: 81-7541-079-5

			Census Data.	Century. Pp. 47-52.	
5.	Mugendi, D., M. Mucheru, J. Kung'u, S. Otor , A. Michemi and J. Mugwe.	2001	Soil Fertility Improvement Strategies for Increased Food Production in the Central Highlands of Kenya.	Journal of African Crop Science Society. Vol. 5: 897-904.	ISSN: 1023-070X/2001
6.	Otor, Samuel C. J. and Arvind Pandey	2002	Sub-fecundity and its Reproductive Health Implications: An Analysis of Change and Continuity in Parity Distribution in Sudan.	Journal. of the Indian Association for the Study of Population. 31(1): 37-49.	ISSN: 0970-454X
7.	Otor, Samuel C. J.	2003	Heterogeneous Social Environment and Optimal Family Size Strategies in Sub-Saharan Africa: Implications for Empirical Research.	Population Association of Kenya Occasional Publication. Pp. 1-12.	ISBN: 9966-9701-0-4
8.	Pandey, Arvind and Samuel C. J. Otor	2005	Analysing Infertility in Sub-Saharan Africa: A Case of Sudan.	Journal of Empirical Research in Social Science (JERSS). 1(1): 1-15.	ISSN: 0973-2985.
9.	Otor, Samuel C. J. and Arvind Pandey.	2006	A Life-Length Model of Female Adolescent Sexual Behaviour: Implications for Policy Options.	<i>Demography India</i> , Journal of the Indian Association for the Study of Population. 35(2): 233-246.	ISSN: 0970 – 454X

10.	Waswa, F. , Samuel C. J. Otor and Daniel Mugendi.	2006	Environment and Sustainable Development Nexus	Environment and Sustainable Development – A Guide for Tertiary Education in Kenya (Vol.1). Pp. 1-19.	ISBN: 9966-776-02-8
11.	Maina, L., G. Owino and Samuel C. J. Otor.	2006	Gender and Environmental Management	Environment and Sustainable Development – A Guide for Tertiary Education in Kenya(Vol. 1). Pp. 142-157.	ISBN: 9966-776-02-8
12.	Otewa, John, Richard Kerich, Samuel C. J. Otor and James E. Otiende.	2007	Mainstreaming Environment and Sustainability in Pupils’ Perception: Challenges for Tertiary Education in Kenya.	Environment and Sustainable Development – A Guide for Higher Education in Kenya (Vol. II). Pp. 39-48.	ISBN: 9966-776-34-6
13.	Kung’u, James B. and Samuel C. J. Otor.	2008	The Role of Forestry Education in Rural Strategies to Cope with HIV/AIDS in Sub-Saharan Africa.	New Perspectives in Forestry Education. Pp. 401-412.	ISBN: 978-92-9059-221-1
14.	Kung’u, James B., Esther Wangombe and Samuel C. J. Otor.	2008	Community Participation in Dry Land Forest Conservation: The Case of Nuu and Iveti Hills in Kenya.	African Journal of Environmental Studies and Development (AJESD). 1(1): 87-91.	ISSN: 1995-1329
15.	Achieng, Celline O., Samuel C. J. Otor , Ayub N. Macharia and Peter Okoth.	2009	Policy Framework for Utilization and Conservation of Below-Ground Biodiversity in Kenya	Journal of Tropical and Subtropical Agroecosystems. 11(2): 397-405.	ISSN: 1870-0462

16.	Mukolwe,Gaudencia O., Samuel C. J. Otor and Ayub N. Macharia.	(In Press)	Mothers as High Risk Sub-Population in Malaria Transmission in Bondo District in Kenya: Implications for Control Strategies.	African Journal of Environmental Studies and Development (AJESD).	ISSN: 1995-1329
17.	Tonui, Warkach K. Samuel C. J. Otor and Ephantus W. Kabiru.	(In Press)	Malaria Control at District Level in the Highlands of Western Kenya: A Case Study of Kericho District.	African Journal of Environmental Studies and Development (AJESD).	ISSN: 1995-1329

6. Affiliation to Professional Bodies(Current/Past)

S/No	Name of professional body
1.	Member of the African Statistical Association (AFSA).
2.	Member of the Indian Society of Probability and Statistics (ISPS).
3.	Member of the Indian Society of Medical Statistics (ISMS).
4.	Member of the International Biometrics Society (IBS).
5.	Member of the International Union for the Scientific Study of Population (IUSSP).
6.	Member of the International Environmetrics Society (TIES).

7.	Member of the Eastern Africa Environmental Network (EAEN).
8.	Member of the Population Association of Kenya (PAK).
9.	Member of the Organization for Social Science Research in Eastern and Southern Africa (OSSREA).

7. National and International awards and Recognitions

S/No	Name of award or Recognition	Awarding Organization/Body	Year
1.	Vice-Chancellor's Award on Publications.	Kenyatta University, Nairobi, Kenya.	2001
2.	Environmental Leadership Award.	Eastern Africa Environmental Network (EAEN), Nairobi, Kenya.	2007
3.	Certificate of Recognition for the University's Attainment of First Position in Performance Contracting 2006/2007 Cycle.	Kenyatta University, Nairobi, Kenya.	2008

8. External Examination (if any)

S/No	Institution	Year
1.	Population Studies and Research Institute (PSRI), University of Nairobi, Kenya.	1. 2000 – 2004. 2. 2008 – To date.
2.	University of Dar Es Salaam, Tanzania.	1. 2004. 2. 2005.
3.	Banaras Hindu University, India.	2008.

9. Supervision of postgraduate students (if any)

S/No	Name of student/Institution	Thesis title	Status of project(e.g.Fiest year etc)
I	PhD Students		
1.	John O. Otewa (PhD) – Dept. of Environmental Sciences, Kenyatta University.	Pupils' Understanding of the Concept of Environment: A Case Study of Standard Seven Pupils in Nyanza Province, Kenya.	Completed and graduated in 2006.
2.	Kipkorir W. Tonui (PhD) – Dept. of Environmental Sciences, Kenyatta University.	Environmental Determinants of Patterns and Trends of Occurrence of Unstable Malaria in Kericho District, Kenya.	Completed and graduated in 2008.

3.	Gaudencia M. Okumbe (PhD) – Dept. of Environmental Sciences, Kenyatta University.	Environmental Determinants of Maternal Morbidity and Mortality in Bondo District, Kenya.	Completed and graduated in 2009.
4.	John Mageror Makoha (PhD) – School of Environmental Studies, Moi University.	Environmental Determinants of Infant and Child Mortality in Rural Kenya: A Case Study of Busia District, Kenya.	On-going.
5.	Daniel G. Manguriu (PhD) – Dept. of Environmental Education, Kenyatta University.	Information Exchange Among Stakeholders in Participatory-Dissemination of Soil Fertility Improvement Technologies in Meru South and Mbeere Districts of Kenya.	On-going.
6.	Phares B. O. Ochola (PhD) – School of Business, Kenyatta University.	The Determinants of E-Commerce Adoption In Selected Small and Medium Enterprises: A Case of Nairobi, Kenya.	On-going.
7.	Francis K. Kiarie (PhD) – Dept. of Management Science, Kenyatta University.	HIV/AIDS Prevalence in Kenya: Application of USAID Estimation and Projection Package and Bayesian Melding Model.	On-going.
8.	Vincent Onguso Oeba (PhD) – Dept. of Environmental Sciences, Kenyatta University.	Statistical Modelling of Forest Cover and Carbon Sequestration in Central Kenya.	On-going.
9.	Beatrice Ghattuba Akunga (PhD) – Dept. of Environmental	Impacts of Climate Change and Variability on	On-going.

	Sciences, Kenyatta University.	Coastal Small-Scale Inshore Fishing in Kenya.	
10.	Joseph Kurauka Kathiai (PhD) – Dept. of Environmental Sciences, Kenyatta University.	Comparative Analysis of Soil Fertility Implication of Integrating Trees with Food Crops in Different Agro-Ecosystems in Kenya.	Proposal stage.

II	Masters/Postgraduate Project Students		
1.	Joseph Kibet Tanui (Masters) – School of Environmental Studies, Kenyatta University.	Farmer-Trainer Extension Approach in Agroforestry: An Application of Cost-Benefit Analysis in Selected Projects in Kenya.	Completed and graduated in 2002.
2.	Duncan Odiwour Onyango (Masters) – School of Environmental Studies, Kenyatta University.	The Influence of Land Use Patterns on Runoff and Soil Erosion in the River Nyando Basin at Kobong'o Area in Kenya.	Completed and graduated in 2003.
3.	Elizabeth W. Mwangi (Masters) – School of Environmental Studies, Kenyatta University.	Small-Holder Farmers' Marketing Channels for On-farm Timber in Kenya.	Completed and graduated in 2003.
4.	Ruth Kangai Adiel (Masters) – School of Environmental Studies, Kenyatta University.	Assessment of Factors Affecting Adoption of Soil Fertility Improvement Technologies in Kenya: The Case of Kirege , Chukka Division.	Completed and graduated in 2004.
5.	Esther M. Wangombe (Masters) – School of Environmental Studies, Kenyatta University.	Forest Resource Valuation: A Case Study of Nuu and Iveti Hills in Eastern Province, Kenya.	Completed and graduated in 2004.
6.	Joseph Kurauka Kathiai (Masters) – School of Environmental Studies, Kenyatta University.	An Investigation of Wood Products Consumption in Kisumu Town, Kenya: Implications for Sustained Tree Planting.	Completed and graduated in 2005.
7.	Barake Lukas Moenga (Masters) – School of Environmental Studies, Kenyatta University.	Community-Based Interventions for Sustainable Management of the Mount Kenya	Completed and graduated in 2005.

		Ecosystem: A Study of Hombe Forest Area.	
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8.	Celline Achieng Oduor (Masters) – School of Environmental Studies, Kenyatta University.	Utilization and Conservation of Below-Ground Biodiversity in Gatunduri and Kibugu Divisions of Embu District, Kenya: An Analysis of Policy Framework.	Completed and graduated in 2008.
9.	Stephen W. Kahunyo (Masters) – School of Environmental Studies, Kenyatta University.	Evaluation of the Growth Performance of Eucalyptus Tree Hybrids Planted in Various Agro-Climatic Areas in Kenya.	Completed and graduated in 2008.
10.	Maureen A. Osula (Masters) – School of Environmental Studies, Kenyatta University.	The Impact of Culture on the Wetland Conservation in Nyando District, Kenya.	Defended and graduates in 2010.
11.	Simon Mugwe Weru (Masters) – School of Environmental Studies, Kenyatta University.	Distribution, Utilization and Management Strategies of Prunus Africana (Hook.f) in Gichugu Division, Kirinyaga District, Kenya.	On-going.
12.	Cecilia Wacheru Kioria (Masters) – School of Environmental Studies, Kenyatta University.	Contribution of Wild Food Plants to Household Food Security of Communities Bordering Arabuko-Sokoke Forest, Kilifi, Kenya.	On-going.
13.	Peter W. Mukiri (Masters) – School of Environmental Studies, Kenyatta University.	Effects of Wildlife Barriers on Human-Wildlife Conflict: The Case of Hombe and Kabaru Settlements in Nyeri District, Kenya.	On-going.