

Parmutia Makui

PERSONAL DETAILS

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SKILLS

<i>Software</i>	R: A Language and Environment for Statistical Computing L ^A T _E X, Microsoft Office, <i>tidyverse</i>
<i>Data skills</i>	Mobile data collection applications using ODK Managing of data collection using ONA, SurveyCTO, KoboToolbox Data management of complex datasets, R training Network analysis Databases, MySQL
<i>Languages</i>	Maa Swahili English

EXPERIENCE

Data Scientist

World Agroforestry (ICRAF), October 2019 - present

Research Methods Group

- Contributing to improved digital and electronic systems of collecting survey data within ICRAF's projects
- Devising and applying automated workflows for survey data management and validation to ensure cleanliness, completeness and uniformity
- Lead novel data analysis and data mining approaches of survey data
- Provide guidance and mentoring to researchers on statistical analysis of survey data and using advanced R packages
- Lead training and capacity building activities of ICRAF's projects and regions in research methods
- Work closely with the Gender and Livelihoods Expert to develop data management and analytical workflows.
- Work closely with the Data System Specialist to ensure that ICRAF research data repository contains high value data
- Lead documentation of tools and methods
- Contribute to preparation of scientific publications
- Presenting information using data visualization techniques

Junior Statistician

3 years

World Agroforestry (ICRAF), June 2016 - September 2019***Research Methods Group***

- Provide support to all ICRAF projects and scientists in data analysis and data mining of survey data as a member of RMG.
- Help in statistical data management and analytical workflows.
- Support training and capacity building activities of ICRAF projects and regions in research methods.
- Provide guidance and mentoring to researchers on statistical analysis of survey data and application of R
- Lead documentation of tools and methods
- Lead development and documentation of ODK applications for several projects implemented in more than one country.
- Carried out R training for new R users within ICRAF R Users community

Data Assistant

1 year

World Agroforestry (ICRAF), June 2015 - May 2016***Research Methods Group***

- Statistical data analysis using R of socio-economic data from 25 sites in 8 different regions, covering 13 countries.
- Support in writing of research papers.
- Ensure that all analysis is reproducible to enhance transparency.
- Reproducing data analysis reports for each of the regions by writing R scripts to combine statistical analysis and explanation text.
- Develop indicators at household level to enable comparison of households across various sites within each region.
- Communicate data analysis processes and final reports with colleagues

EDUCATION

BSc. Applied Statistics with I.T

2008-2012

Maseno University

- Major: **Applied Statistics**
- Minors: **Information Technology and Mathematics**

PUBLICATIONS

1. Brian Chiputwa, Priscilla Wainaina, Tebila Nakelse, Parmutia Makui, Robert B. Zougmore, Ousmane Ndiaye, Peter A. Minang, [Transforming climate science into usable services: The effectiveness of co-production in promoting uptake of climate information by smallholder farmers in Senegal](#), Climate Services, Volume 20, 2020
2. Zinngrebe, Y., Borasino, E., Chiputwa, B. et al. [Agroforestry governance for operationalising the landscape approach: connecting conservation and farming actors](#). Sustain Sci 15, 1417–1434 (2020).
3. Robiglio, V., Reyes Acevedo M., y **Makui, P.**, 2019. DriveNet: una metodología para el análisis participativo de las causas y mecanismos de deforestación. Lima, Perú. World Agroforestry, ICRAF, Oficina Regional para América Latina.
4. Chiputwa, B.; Wainaina, P.; **Makui, P.**; Nakelse, T., Zougmore, R.; Ndiaye, O. (2019) [Evaluating the Impact of the Multidisciplinary Working Group Model on Farmers' Use of Climate Information Services in Senegal](#), Washington, D.C., United States Agency for International Development.
5. Duguma, L. A., P. A. Minang, D. Foundjem-Tita, **P. Makui**, and S. Mandiefe Piabuo. 2018. [Prioritizing enablers for effective community forestry in Cameroon](#), Ecology and Society 23(3):1.
6. Bourne, Mieke; Gassner, Anja; **Makui, Parmutia**; Muller, Alice; Muriuki, Jonathan, [A network perspective filling a gap in assessment of agricultural advisory system performance](#), Journal of Rural Studies, 50, 2017, pp. 30-44
7. Gachuri, Agnes; Carsan, Sammy; Karanja, Esther, **Makui, Parmutia**, Kuyah, Shem, [Diversity and importance of local fodder tree and shrub resources in mixed farming systems of Central Kenya](#), Forests, Trees and Livelihoods, Vol 26, Issue 3, 2017.
8. Chiputwa, Brian; **Makui, Parmutia**; Gassner, Anja, [A Gendered perspective of forest-based livelihoods within countries in the Sentinel Landscapes Network](#), 2016
9. Nderitu, M. W; Oludhe, C; Ali, A. A; Omondi, P; **Makui, P**; [Analysis of Rainfall and Temperature Variability in Kieni; Nyeri County](#), 2016
10. Gachuri, Agnes; Carsan, Sammy; **Makui, Parmutia**, Kuyah, Shem, [Contribution of local tree fodder resources in smallholder mixed production system of central Kenya](#), 2016
11. Bourne, Mieke; **Makui, Parmutia**; Muller, Alice; Gassner, Anja, [Social network analysis for determining gender-differentiated sources of information and tree seedlings](#), A User Guide to Gender Analysis in Agroforestry, 2014

REFERENCES

Brian Chiputwa, PhD
Livelihoods and Gender Specialist
World Agroforestry (ICRAF)
United Nations Avenue, Gigiri
Nairobi, Kenya

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