Parmutia Makui

PERSONAL DETAILS

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SKILLS

Software	R: A Language and Environment for Statistical Computing
	LaTeX, Microsoft Office, *tidyverse*
Data skills	Mobile data collection applications using ODK
	Managing of data collection using ONA, SurveyCTO, KoboToolbox
	Data management of complex datasets, R training
	Netw
	Databases, MySQL
Languages	Maa
	Swahili
	English

EXPERIENCE

Data Scientist
World Agroforestry Centre, 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 anaytical 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 Centre, 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 Centre
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. Zougmoré, 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 participativode 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., Zougmoré, 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. Gachuiri, 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. Gachuiri, 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
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United Nations Avenue, Gigiri
Nairobi, Kenya

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World Agroforestry Centre
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Mieke Bourne
Shared Facilitator
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