

# ROCK ROMARIC ZAGRE

## Research Analyst

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Dakar (Senegal)

Research Analyst with more than 6 years of experience in organization, cleaning, manipulation and analysis of large household data sets. Assisting with the development and implementation of quantitative surveys, including questionnaire development, field team training, and development of software applications for recording interview responses on tablet computers. Overseeing field work in rural areas of Burkina Faso, Senegal and other West African countries. Preparation of tables and graphs for reports. Collaborating on analysis of survey data with the research team. Collaborate and communicate with implementation partners. Organizing and analyzing qualitative data. Advanced STATA skills, including programming. Solid experience of multiple data entry and CAPI software packages. Co-authored scientific manuscripts published in the Journal of Nutrition, Maternal & Child Nutrition and Current Developments in Nutrition.

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## Experience

### **MARCH 2019 – present: Research Analyst at IFPRI, Dakar**

- SHiFT projects in Vietnam and Ethiopia

I am working on the SHiFT project of which the objectives are to characterize food consumption, dietary patterns, and the nutritional and health status of consumers. The project also aims to characterize food environments (FEs) of marginalized populations, how FEs shape dietary patterns, and how consumers shape FEs. Currently, I am working on Vietnam and Ethiopia.

For SHiFT-Vietnam, I coded the CAPI programming of dietary questionnaire. I conducted the assignments for the data collection, which consisted of sending daily through the server to diet enumerators their tasks for the next day. I also conducted the complex data management of dietary

data collected. Now, I am supporting the data analysis part to generate the necessary results tables for presentation/report. I also cleaned the household datasets and I supported some part of the analysis of household data.

For SHiFT-Ethiopia, I supported the CAPI programming of dietary questionnaire, the assignments for the data collection and I am working on the data management currently.

- FRESH project in Tanzania

The FRESH project implemented in Northern Tanzania uses a holistic approach to address supply, demand, and food environment (FE) barriers to fruit and vegetables (F&V) production and intake. I am working on it, where I tested the CAPI questionnaire for some sections in particularly the agricultural section. I did the data checks and we already collected the datasets and now we are doing the final checks to prepare the cleaning part and the analysis.

- Alive & Thrive Burkina Faso project on maternal nutrition

It is an impact evaluation and is implemented in two regions of Burkina Faso (Boucle du Mouhoun et Hauts-Bassins) and studies maternal nutrition among pregnant women and recently delivered women. I did the cleaning and analysis of Baseline/Endline datasets and prepared the Baseline/Endline analysis tables for the report. I worked on the CAPI programming (SurveyCTO, Surveybe) of the questionnaires (Pregnant women and their dietary assessment, Women with children 0-5 months old, Husbands of women with children 0-5 months old, Nurses-midwives, Community health agents, Antenatal care observation & exit interview) for Endline and Baseline surveys and prepared the Baseline tables for a presentation on validity of self-reported iron-folic acid supplements received/consumed and services received during antenatal care and for an abstract on missed opportunities for maternal nutrition interventions during antenatal care visits in Burkina Faso. I also presented at a Virtual Brown Bag the impact analyses of the study on nutrition interventions in Burkina. I also made a virtual presentation of the same results to Alive & Thrive team in Burkina. I presented the main impact results of A&T study to the Maternal and adolescent nutrition of West Africa subgroup and also presented the results during the RISE session on November 2022 at IFPRI Headquarters. I also made a virtual presentation of the same results to Alive & Thrive team in Burkina. In July 2023, I presented findings during the American Society for Nutrition conference in Boston on the validation study of pregnant women's recall of iron-folic

acid supplements consumed and nutrition counseling received during antenatal care in Burkina Faso.

- Alive & Thrive Ethiopia project on maternal nutrition

I prepared the Alive & Thrive Ethiopia Endline database which included pregnant women, recently delivered mothers, health workers, etc. I also worked on the analysis part of that project and prepared the slides of main results. The project will support the government of Ethiopia to achieve targets set out in the national nutrition program (NNP II) and the National Nutrition Sensitive Agriculture Strategy (NNSAS). Alive & Thrive will focus its role on strengthening systems at the national and regional levels for achieving large scale and sustainability and strengthening the evidence base for programs and policies. Alive & Thrive will also develop and test the integration of an intensive package of maternal nutrition interventions into existing ANC services delivered through government health facilities that will align with the latest global evidence and the NNP II. It is an impact evaluation on maternal nutrition among pregnant women and recently delivered women and is implemented in two regions of Ethiopia: Southern Nations, Nationalities, and Peoples' Region and Somali.

- Accra urban adolescent nutrition study project

The Adolescent urban nutrition in Accra project aims to study the adolescent lives, nutrition and health in Accra. I conducted enumerator training for data collection and contributed to CAPI coding of household, food environment, 24 hours recall, school surveys. I cleaned the dietary assessment and the household survey dataset of adolescents and supported data analysis. I supported data management and analysis resulting in the presentation of findings during the Micronutrient Forum (international conference) held in October 2023. I am also working on food environment data by supporting static analysis of food accessibility for adolescents using GPS datasets.

- Integrated Research on Acute Malnutrition in the Sahel (IRAM) project

I worked on Inception report of IRAM project. I did a cleaning of SMART survey datasets and prepared the tables and graphs of report. UNICEF and IFPRI are engaged in a multi-country partnership to generate evidence on wasting prevention and treatment interventions in 4 countries: Chad, Mali, Mauritania, and Niger. In Chad and Mali, following an initial phase of context

analysis, impact evaluations will be conducted to generate robust evidence on the effectiveness of integrated interventions to tackle wasting. The impact evaluation in these countries will be combined with a costing study and light-touch documentation of implementation. In Mauritania and Niger, in-depth implementation research will be conducted to generate important evidence on how integrated nutrition services are implemented in the field.

- SELEVER project in Burkina Faso

I contributed to SELEVER data cleaning and support analysis. The SELEVER study is designed to evaluate the impact of an integrated agriculture-nutrition package of interventions (including poultry value chain development, women's empowerment activities, and a behavior change communications strategy to promote improved diets and feeding, care and hygiene practices) on the diets, health and nutritional status of women and children in Burkina Faso. This paper presents the rationale, study design and baseline survey findings.

- SNV project in Burkina Faso

I contributed to analysis of the determinants of the nutrition and food security of family farmers in Burkina Faso (SNV).

- Innovative Approaches for the Prevention of Childhood Undernutrition (PROMIS) project

I also worked on PROMIS project datasets in the publication process by reorganizing them. PROMIS project carried out in Burkina Faso and Mali. In both countries, the PROMIS project integrated preventive interventions into acute malnutrition screening to incentivize mothers to participate in screening and to increase community management of acute malnutrition treatment coverage and reduce acute malnutrition incidence and prevalence.

- C'est la vie! Project in Senegal

I also worked on by coding the CAPI (SurveyCTO) for phone survey and the CAPI (SurveyCTO) for Endline survey.

**DECEMBER 2018 – FEBRUARY 2019: Statistician at ISRA-BAME, Dakar**

- Voter Survey project in Senegal

CAPI programming, enumerator training and field work organization for Voter Survey project with Kiel University. ISRA-BAME is Senegalese Institute of Agricultural Research-Office of Macroeconomic Analysis.

### **OCTOBER 2017 – NOVEMBER 2018: Statistician at ISRA-BAME, Dakar**

CAPI programming (SurveyCTO), enumerator training and field work organization, working with large quantitative data sets (data cleaning, management, analysis, etc.) for Projet d'Appui aux Politiques Agricoles in Senegal (IFPRI was a partner). Preparation of tables and graphs for reports and assisting in the report writing. The datasets were as follows:

- Dry grain producer dataset
- Horticulture dataset
- Irrigated rice dataset
- Consumption dataset
- Agricultural product processor dataset
- Agricultural product trader dataset

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## **Publication**

Kim, Sunny S.; Zagr , Rock R.; Ouedraogo, Cesaire T.; Sununtnasuk, Celeste; Ganaba, Rasmane; Menon, Purnima; et al. Intensified nutrition interventions in antenatal care services increased consumption of iron and folic acid supplements and early breastfeeding practices in Burkina Faso: Results of a cluster-randomized program evaluation. *Journal of Nutrition*. Article in press. First published online June 17, 2023. <https://doi.org/10.1016/j.tjnut.2023.06.016>

Kim, S. S., Ou draogo, C. T., Zagr , R. R., Ganaba, R., Zafimanjaka, M. G., Tharaney, M., & Menon, P. (2023). Multiple modifiable maternal, household and health service factors are associated with maternal nutrition and early breastfeeding practices in Burkina Faso. *Maternal & Child Nutrition*, 19, e13457.

Ou draogo, C saire T.; Kim, Sunny S.; Zagr , Rock; Ganaba, Rasman ; Zafimanjaka, Maurice; Sawadogo, Ramatou; Combassere, Roland; and Menon, Purmina. 2020. Missed opportunities for

maternal nutrition interventions during antenatal care visits persist in Burkina Faso. Current Developments in Nutrition 4 (Supplement 2): 1055. <https://doi.org/10.1093/cdn/nzaa054> 127

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## **Language skills**

French: Reading (fluency), Speaking (fluency), Writing (fluency)

English: Reading (intermediate), Speaking (intermediate), Writing (intermediate)

Moorée: Spoken

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## **Programming skills**

Application and data collection platform: SurveyCTO, Survey Solutions, CSPro, ODK, SQL, etc. | Statistical software: STATA, R, SAS, SPSS, MATLAB, SPAD, EViews, etc. | Microsoft Office : Word, Excel, PowerPoint, Access | Microsoft Windows, Linux

- Presentation

I made a virtual presentation on the R software during a Poverty and Health Nutrition Division staff meeting at IFPRI showing the possibilities that R offers in data processing and also the domains it performs (Spatial, neural networks, Big data, etc.).

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## **Education**

### **2013-2016**

Master's degree in statistics and economics, delivered by the National School of Statistics and Economic Analysis (ENSAE) of Dakar, Senegal.

### **2008-2010**

Bachelor's degree in Mathematics, delivered by the Research Unit in Exact and Applied Sciences of the University of Ouagadougou, Burkina Faso.

**2006-2007**

Diploma of the Baccalaureate of General Education (series D, Mathematics and Natural Sciences),  
delivered by the University of Ouagadougou, Burkina Faso.

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## **Activities**

Football | Running, hiking | Bike | Weightlifting