Project: Enhancing access to graduate training for disadvantaged students in Benin - RUFORUM NURTURING-GRANT

Project number: RU- 2016 –NG
Period: August 2016 – September 2018
Budget: $ 27,000 US

First year technical report

Project Coordinator
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Rector, University of Abomey-Calavi
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Email: achille.assogbadjo@fsa.uac.bj
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1. Introductory message

The University of Abomey-Calavi (UAC), the largest one in Benin was created in 1970. Its mission is to contribute to sound scientific research and to foster unemployment reduction through quality training of the students. The university offers degrees such as BSc. MSc., and PhD. In 2015 UAC counted about 90,000 registered students in 24 Faculties, Polytechnics, High Schools, and Institutes. In line with its vision and mission, UAC intends through this project to train the youth to acquire skills to tackle development bottlenecks in their communities. The project targets economically disadvantaged and brilliant master students that will register at the University of Abomey-Calavi in Republic of Benin. As expected outputs, twelve scholars will successfully complete their MSc study with a partial financing support provided by RUFORUM through Nurturing Grant support. This will leverage socio-economic transformation not only in their family but also at the community level. Activities include enrolment of students, capacity building, monitoring and evaluation. The project is aligned with the RUFORUM Nurturing Grant vision, which is to address gaps identified in implementation of Competitive Grants, broaden participation and address emerging issues/opportunities. The project started in October 2016 and will close in September 2018. The project total cost is USD 27,000. The project will be managed and coordinated by the Rector’s Office at University of Abomey-Calavi in Republic of Benin. The project will deliver 12 MSc Theses, 12 Journal articles, and several knowledge communication products including among others, Newsletter articles, profiles of recruited students, impact storylines.

Table 1 summarizes the number of student originally planned per master programme along with their respective cost.

### Table 1. Budget for two years project

<table>
<thead>
<tr>
<th>Rubric</th>
<th>Quantity</th>
<th>Unit amount (USD)</th>
<th>Total amount for 2 years (USD)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fees for students to be registered for the MSc programme in Biodiversity and Natural Resources</td>
<td>4 students/year x 2 years</td>
<td>1125</td>
<td>9000</td>
</tr>
<tr>
<td>Fees for students to be registered for the MSc programme in Biostatistics</td>
<td>4 students/year x 2 years</td>
<td>1125</td>
<td>9000</td>
</tr>
<tr>
<td>Fees for students to be registered for the MSc programme in Food Sciences and Nutrition</td>
<td>4 students/year x 2 years</td>
<td>750</td>
<td>6000</td>
</tr>
<tr>
<td>2. Coordination support</td>
<td>1 support/year x 2 years</td>
<td>1200</td>
<td>2400</td>
</tr>
<tr>
<td>3. Bank charges</td>
<td>1 time/year x 2 years</td>
<td>300</td>
<td>600</td>
</tr>
<tr>
<td><strong>Total for 2 years (USD)</strong></td>
<td></td>
<td></td>
<td><strong>27000</strong></td>
</tr>
</tbody>
</table>

*Exchange rate for calculation in July 2016: USD 1 = FCFA 580

This document is the report of the first year of the project.
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<td>9000</td>
</tr>
<tr>
<td>Fees for students to be registered for the MSc programme in Biostatistics</td>
<td>4 students/year x 2 years</td>
<td>1125</td>
<td>9000</td>
</tr>
<tr>
<td>Fees for students to be registered for the MSc programme in Food Sciences and Nutrition</td>
<td>4 students/year x 2 years</td>
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<td>6000</td>
</tr>
<tr>
<td><strong>2. Coordination support</strong></td>
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<tr>
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<td></td>
<td></td>
<td><strong>27000</strong></td>
</tr>
</tbody>
</table>

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2. Profiles of the Nurturing grant beneficiaries

In total, 13 students were selected after a competitive process. A call for application was lunched via social media and administration of the Faculty of Agronomic Sciences. A selection board was set up to examine the applications. From this assessment, 13 students were selected i.e. one more than planned in the official project document. Three (23 %) were female while ten (77%) were males (Figure 1a).

The students were registered in four master programmes. Three (23 %) were registered in the Biostatistics master programme, two (15 %) in the Management of Natural Resources and Biodiversity master programme, and four (31 %) each in the Food science and technology master programme and Forestry and Management of Natural Resources master programme (Figure 1b).

Figure 1. Distribution of the beneficiaries between gender (a) and master programmes (b)

Altogether, 3 (instead of 4) were registered for the MSc programme Biostatistics, 2 (instead of 4) for MSc programme in Biodiversity and Natural Resources and 8 (instead of 4 in MSc programme in Food Sciences and Nutrition) for MSc programme in Food Sciences and Nutrition, and Forestry and Natural Resources Management. The difference with what was previously planned (see Table 1) has allowed to enrol one additional student, making 13 beneficiaries instead of 12 originally planned (further explanations are provided in the financial report).

Table 2 gives details (first name and surname, gender, master programme, and contact details) of the project beneficiaries. Figure 2 shows a photograph of the beneficiaries of the RUFORUM Nurturing Grant with Dr Moses of RUFORUM.
Table 2. List of Nurturing Grant Beneficiaries at the Faculty of Agronomic Sciences starting in the academic year 2016-2017: name, master program registered for, and contact details

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Gender</th>
<th>Master program registered for</th>
<th>Phone number (+229)</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AGLASSA Cossi Aubin</td>
<td>M</td>
<td>Management of Natural Resources and Biodiversity (RESBIO)</td>
<td>96153012</td>
<td><a href="mailto:cosaubin@gmail.com">cosaubin@gmail.com</a></td>
</tr>
<tr>
<td>2</td>
<td>CHABI Hermann Ghislain</td>
<td>M</td>
<td>Management of Natural Resources and Biodiversity (RESBIO)</td>
<td>96031035</td>
<td><a href="mailto:chaghisher@gmail.com">chaghisher@gmail.com</a></td>
</tr>
<tr>
<td>3</td>
<td>HOUENOU Jésugnon Ezéckiel</td>
<td>M</td>
<td>Management of Natural Resources</td>
<td>66999196</td>
<td><a href="mailto:jehezeckiel@gmail.com">jehezeckiel@gmail.com</a></td>
</tr>
<tr>
<td>4</td>
<td>GANDAHO M Cléo-Claudia</td>
<td>F</td>
<td>Management of Natural Resources</td>
<td>97716079</td>
<td><a href="mailto:cgandahoi5@gmail.com">cgandahoi5@gmail.com</a></td>
</tr>
<tr>
<td>5</td>
<td>SEWA Samuel Jonathan</td>
<td>M</td>
<td>Food science and technology</td>
<td>67763374</td>
<td><a href="mailto:jonathansewa@gmail.com">jonathansewa@gmail.com</a></td>
</tr>
<tr>
<td>6</td>
<td>AGBOHESSOU Mariette</td>
<td>F</td>
<td>Management of Natural Resources</td>
<td>96155825</td>
<td><a href="mailto:magbohessou@gmail.com">magbohessou@gmail.com</a></td>
</tr>
<tr>
<td>7</td>
<td>FASSINOU Finagnon Toyi Kévin</td>
<td>M</td>
<td>Food science and technology</td>
<td>97787793</td>
<td><a href="mailto:faskeve@yahoo.fr">faskeve@yahoo.fr</a></td>
</tr>
<tr>
<td>8</td>
<td>FONTON Johnnor Murillos Yatoundé</td>
<td>M</td>
<td>Food science and technology</td>
<td>97477940</td>
<td><a href="mailto:murillosfonton@gmail.com">murillosfonton@gmail.com</a></td>
</tr>
<tr>
<td>9</td>
<td>GBEDAN Roméo</td>
<td>M</td>
<td>Food science and technology</td>
<td>66810177</td>
<td><a href="mailto:romeogbedan@gmail.com">romeogbedan@gmail.com</a></td>
</tr>
<tr>
<td>10</td>
<td>AGOUNDE Gafarou</td>
<td>M</td>
<td>Management of Natural Resources</td>
<td>96692934</td>
<td><a href="mailto:agoundegafarou@gmail.com">agoundegafarou@gmail.com</a></td>
</tr>
<tr>
<td>11</td>
<td>SACLA-AIDE Edmond</td>
<td>M</td>
<td>Biostatistics</td>
<td>66720575</td>
<td><a href="mailto:saclaaideedmond@yahoo.fr">saclaaideedmond@yahoo.fr</a></td>
</tr>
<tr>
<td>12</td>
<td>OROUNLA B. Rachidatou</td>
<td>F</td>
<td>Biostatistics</td>
<td>66371821</td>
<td><a href="mailto:rachobiss@gmail.com">rachobiss@gmail.com</a></td>
</tr>
<tr>
<td>13</td>
<td>VIAYINON Jean-Hénock</td>
<td>M</td>
<td>Biostatistics</td>
<td>67458320</td>
<td><a href="mailto:henockjean@gmail.com">henockjean@gmail.com</a></td>
</tr>
</tbody>
</table>

Figure 1. Nurturing grant beneficiaries with Dr Moses of RUFORUM
3. Academic progress

Most of the students have completed the exam of the first year of their respective master program and are waiting for their marks and grades (See Appendix 1). In addition, twelve out of the thirteen already have the topic of their master research and are currently drafting their proposal (see Table 3).
<table>
<thead>
<tr>
<th>N°</th>
<th>Name</th>
<th>M.Sc Thesis supervisor</th>
<th>M.Sc Thesis co-supervisor(s)</th>
<th>M.Sc. Topic</th>
<th>Stage of evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AGLASSA Cossi Aubin</td>
<td>Prof Ahamidé</td>
<td>Not applicable</td>
<td>Biological and socio-economic assessment of threatened species in the district of Lokossa, southern Benin</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>2</td>
<td>CHABI Hermann Ghislain</td>
<td>Prof Assogbadjo</td>
<td>Dr Gbédomon</td>
<td>Ecosystem disservices of the Reserve of Biosphere of Pendjari: Trade-offs and implication for sustainable conservation of the reserve</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>3</td>
<td>HOUENOU Jésugnon Ezéckiel</td>
<td>Prof Assogbadjo</td>
<td>Dr Idohou</td>
<td>Local perception and habitat suitability modelling for ecological restoration of <em>Milicia excelsa</em> in Benin (West Africa)</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>4</td>
<td>GANDAHO M Cléo-Claudia</td>
<td>Prof Assogbadjo</td>
<td>Dr Idohou</td>
<td>Impact of climate changes on the distribution of the threatened <em>Ipomoea beninensis</em> in Benin (West Africa)</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>5</td>
<td>SEWA Samuel Jonathan</td>
<td>Prof Hounhouigan</td>
<td>Dr Chadaré</td>
<td>Effect of peeling, formulation and pasteurisation process units on the microbiological and physico-chemical quality of pineapple juice from Benin.</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>6</td>
<td>AGBOHESSOU Mariette</td>
<td>Prof Assogbadjo</td>
<td>Dr Salako</td>
<td>Comparative analysis of performances of cuttings and air marcotting in propagating <em>Irvingia gabonensis</em> and <em>Adansonia digitata</em> in Southern Benin</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>7</td>
<td>FASSINOU Finagnon Toyi Kévin</td>
<td>Prof Hounhouigan</td>
<td>Dr Chadaré</td>
<td>Infant food formulation based on two selected food trees and shrubs from Benin</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>8</td>
<td>FONTON Johnnor Murillos Yatoundé</td>
<td>Prof Hounhouigan</td>
<td>Dr Chadaré</td>
<td>Effect of storage on microbiological, physico-chemical and nutritional quality of optimally pasteurized pineapple juice from Benin.</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>9</td>
<td>GBEDAN Roméo</td>
<td>Prof Hounhouigan</td>
<td>Dr Chadaré</td>
<td>Under discussion</td>
<td>Not applicable</td>
</tr>
<tr>
<td>10</td>
<td>AGOUNDE Gafarou</td>
<td>Prof Assogbadjo</td>
<td>Dr Salako / Dr Idohou</td>
<td>Predicting climate change impact on elephant food resources in the Pendjari National Park</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>11</td>
<td>SCLA-AIDE Edmond</td>
<td>Prof Glélè Kakai</td>
<td>Dr Chadaré / Dr Salako</td>
<td>Relative performances of optimization using mixture design</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>12</td>
<td>OROUNLA B. Rachidatou</td>
<td>Prof Glélè Kakai</td>
<td>Not applicable</td>
<td>Multiples Correspondence Analysis for typology of cows breeder in Benin</td>
<td>Proposal drafting</td>
</tr>
<tr>
<td>13</td>
<td>VIAYINON Jean-Hénock</td>
<td>Prof Glélè Kakai</td>
<td>Not applicable</td>
<td>Nonlinear Mixed Effect Models</td>
<td>Proposal drafting</td>
</tr>
</tbody>
</table>
4. Conclusion

The project has effectively started and the activities of the first year which mainly were (i) to recruit the beneficiaries, and (ii) enrol them in their respective master programmes were successfully achieved. In addition, it was possible to register one more student (13 instead of 12). The second academic year will start in October 2017. The next challenge for beneficiaries if to successfully complete the second year as he first one. For the management team, the next challenge is to ensure successful supervision of the beneficiaries such that they complete their master and contribute to building the capacity of human resources in agricultural sector.

Acknowledgment

Both beneficiaries and the project management team express their gratitude to the RUFORUM for providing such opportunity.
6. Appendices

Individual first year report by the project beneficiary
<table>
<thead>
<tr>
<th>STUDENT NAME, PICTURE AND PROGRAM</th>
<th>SEX AND AGE</th>
<th>ACADEMIC RECORD</th>
<th>ACADEMIC PROGRESS</th>
<th>LEARNING EXPERIENCE</th>
<th>CHALLENGES AND HOW THEY CAN BE ADDRESSED</th>
<th>SUPERVISOR (FULL NAME)</th>
<th>TENTATIVE RESEARCH TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHABI Hermann Ghislain UAC/FSA/RESBIO</td>
<td>M</td>
<td>25/09/1986</td>
<td>Année en cours</td>
<td>FSA/ MASTER EN GESTION DES RESSOURCES NATURELLES ET DE LA BIODIVERSITE (RESBIO)</td>
<td>• Aménagement et conservation des ressources naturelles, • Aménagement des produits forestiers non ligneux et ligneux, • Aménagement des systèmes agro-forestier traditionnels, • Aménagement des aires protégées, • Analyse, traitement statistique et interprétation scientifique des données biologiques, • Étude d’impact Environnemental, • Elaboration et mise en œuvre de Projets de développement et de recherche scientifique, • Suivi évaluation de projets, • Atténuation et adaptation aux effets néfastes des changements climatiques sur l’environnement, • Monographie de la diversité biologique (Ressources forestières animales),</td>
<td>Renforcement de la résilience des couches les plus vulnérables <strong>Address:</strong> Tel: 0022996031035 ou 0022995198009 Email: <a href="mailto:chaghisher@gmail.com">chaghisher@gmail.com</a></td>
<td>Prof Dr ir ASSOGBADIO Achille E.</td>
</tr>
<tr>
<td>STUDENT NAME, PICTURE AND PROGRAM</td>
<td>SEX AND AGE</td>
<td>ACADEMIC RECORD</td>
<td>ACADEMIC PROGRESS</td>
<td>LEARNING EXPERIENCE</td>
<td>CHALLENGES AND HOW THEY CAN BE ADDRESSED</td>
<td>SUPERVISOR (FULL NAME)</td>
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</tr>
</tbody>
</table>
| AGLASSA Cossi Aubin              | Masculin 01/03/1981 à Savalou | Année en cour (pas encore de notes) | FSA/ Master en Gestion des Ressources Naturelles et de la Biodiversité (RESBIO) | - Aménagement des aires protégées,  
- Analyse, traitement statistique et interprétation des données biologiques,  
- Étude d’impacts Environmental,  
- Élaboration et mise en œuvre de Projets de développement et de recherches scientifiques,  
- Atténuation et adaptation aux effets néfastes du changement climatique sur l’environnement,  
- Monographie de la diversité biologique (Réssources forestières animales),  
- Aménagement et conservation des ressources naturelles,  
- Aménagement des produits forestiers non ligneux et ligneux,  
- Aménagement des systèmes agro-forestiers traditionnels, | Atténuation de la vulnérabilité des couches les plus vulnérables/ promotion des essences fruitières et des produits forestiers non ligneux (PNFL)  
Tél: 0022995462704/ 0022996153012  
Email: cosaubin@gmail.com | Prof Dr Ir ASSOGBADJO Achille E. | Contribution à l’étude biologique et socio-économique des essences menacées dans la commune de Lokossa |
<table>
<thead>
<tr>
<th>STUDENT NAME, PICTURE AND PROGRAM</th>
<th>SEX AND AGE</th>
<th>ACADEMIC RECORD</th>
<th>ACADEMIC PROGRESS</th>
<th>LEARNING EXPERIENCE</th>
<th>CHALLENGES AND HOW THEY CAN BE ADDRESSED</th>
<th>SUPERVISOR (FULL NAME)</th>
<th>TENTATIVE RESEARCH TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>FONTON Johnnor Murillos</td>
<td>Male</td>
<td>Biological value of food: 15,50 Applied Nutrition: 13 Development and operation of food composition tables: 16,50 Toxicology and food safety: 12,80 Harvest quality, storage and food preservation: 11,10 Rheology of food: 14,50 Food additives and spices: 16,50 Dynamics of food consumption patterns: 13,25 Sensory evaluation: 15,50</td>
<td>The year being not finished we have not yet written exams in the courses below Biochemical basis and physiology of nutrition, genesis and evolution of equipment, unit operations of the food process, integrated quality management, linear model 1 and 2, agricultural experimentation 2, agricultural research, scientific writing technique, gender and development, scientific English, ethics and nutrition research, biochemical composition and functional quality of food, formulation and optimization of nutritional value of food, nutrition and dietetics, advanced nutrition physiology, food and nutritional security, food and nutrition in emergencies, Research methodology in laboratories and research stations, chromatographic methodology, nutritional surveys planning, computer science applied to nutrition, scientific seminar, rural monography</td>
<td>This master 1 course allows me to acquire skills in the following domains: food formulation, dietetic nutrition, food safety and nutrition, planning nutritional surveys nutrition in emergency situations and sensory analyses.</td>
<td>Dr Chadaré / Prof HOUNHOUIGAN</td>
<td>Effect of storage on microbiological, physico-chemical and nutritional quality of optimally pasteurized pineapple juice from Benin</td>
<td></td>
</tr>
<tr>
<td>STUDENT NAME, PICTURE AND PROGRAM</td>
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<td>ACADEMIC RECORD</td>
<td>ACADEMIC PROGRESS</td>
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<td>CHALLENGES AND HOW THEY CAN BE ADDRESSED</td>
<td>SUPERVISOR (FULL NAME)</td>
<td>TENTATIVE RESEARCH TOPIC</td>
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<td>------------------------</td>
</tr>
</tbody>
</table>
| GBEDAN Mahumawon Ghislain Roméo    | Male 27 years old | Biological value of food: **15**  
Applied Nutrition: **15,75**  
Food composition tables: 17,50  
Toxicology and food safety: **13**  
Harvest quality, storage and food preservation: **12.80**  
Rheology of food: **14.50**  
Food additives and spices: **16,50**  
Dynamics of food consumption patterns: **13.25**  
Sensory evaluation: **14,50**  
Bioactive compound of food: **17,75** | This academic year (2016-2017) being not yet ended, we have not yet been evaluated in some subjects and in this wise, we have not get the marks of these subjects. In the number of these subjects, we can mention:  
Biochemical basis and physiology of nutrition, genetics and evolution of equipment, unit operation of the food process, integrated quality management, linear model 1 and 2, agricultural experimentation, agricultural research, scientific writing technique, gender and development, angal Science, ethics and nutrition research, biochemical composition and functional quality of food, formulation and optimization of nutritional value of food, nutrition and dietetics, advanced nutrition physiology, food and nutritional security, food and nutrition in emergencies, Research methodology in laboratories and research stations, chromatographic methodology, nutritional surveys planning, computer science applied to nutrition, scientific seminar, real-life monography | This master 1 course allows us to strengthen our skills in the following fields: dietetics and nutrition, food design, food safety, nutritional planning of surveys, feeding and nutrition in emergency situations. | Prof. Joseph D. HOUN-HOUIGAN | Under discussion |
<table>
<thead>
<tr>
<th>STUDENT NAME, PICTURE AND PROGRAM</th>
<th>SEX AND AGE</th>
<th>ACADEMIC RECORD</th>
<th>ACADEMIC PROGRESS</th>
<th>LEARNING EXPERIENCE</th>
<th>CHALLENGES AND HOW THEY CAN BE ADDRESSED</th>
<th>SUPERVISOR (FULL NAME)</th>
<th>TENTATIVE RESEARCH TOPIC</th>
</tr>
</thead>
</table>
| **Samuel Jonathan SEWA**          | Male 25 years old | **Summary of courses followed and evaluated:**  
+ Dynastic of models of food consumption: **14.75**  
+ Applied nutrition: **11**  
+ Biological value of foods: **16.5**  
+ Rheology: **15.5**  
+ Sensory analysis: **13**  
+ Quality harvest, storage and conservation: **10.55**  
+ Additives: **17**  
+ Food safety and toxicology: **11.75**  
| **Summary of the specialty courses followed and not yet evaluated:**  
+ Basic biochemical and physiological nutrition  
+ The process engineering unit operation  
+ Integrated quality management  
+ Scientific writing  
+ Ethics and research in | For this first year of master courses, we have 30 theoretical courses which are finished by:  
+ Practical training on the field “rural monography”, which will be also noted.  
| **Summary of the specialty courses not completed:**  
+ Emergency situations  
+ Computer science applied to nutrition.  
+ Genesis and evolution of equipment and food procedures  
+ Development and operation of food consumption tables  
+ Training course of methodology research in the laboratory  
| I have acquired through already completed courses, a clear picture and thorough knowledge on foods, the secrets of a food combination perfect for not only development, maintenance and protection of the body but also the biological values of food, the relationship of these with the physiological needs of the body for proper operation. Also I had the enlightened mind in support of the forms of malnutrition and hunger in Benin. In front of such a vision, I also had to take care of survival and the research of working material: a computer for the practical work and statistical data processing and also a bike for the moving during the practice works and to save time. RUFORUM gave me a great chance to continue studies. So to better meet this | **Supervisors:**  
Dr. Chadare Flora  
/ Prof. Joseph HOUNHOUIGAN | **Effect of peeling, formulation and pasteurisation process units on the microbiological and physico-chemical quality of pineapple juice from Benin.** |
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutrition science and food technology</td>
<td>+ Conference scientific seminar + Nutritional survey planning + Chromatographic method + Food and nutrition in emergency situation + Food and nutritional security + Physiology advanced nutrition + Formulation and optimization of the nutritional value of foods</td>
</tr>
<tr>
<td>Linear model 1 and 2</td>
<td>+ Gender and development + Scientific English + Agricultural experimentation.</td>
</tr>
<tr>
<td>Development and planning of nutritional surveys and emergency situations and support to vulnerable people. I have also been enlightened on the physicochemical and microbiological analytical methods, which are laboratory work that ensures the safety of food.</td>
<td>- I have written exams for 8 courses and still have to write 23.</td>
</tr>
<tr>
<td></td>
<td>chance I had to run also for these needs, way parallel, while maintaining a level of understanding necessary of course. For the rest of the course, I will optimize performance to gather a good average which can favor me for the thesis, if God made me grace.</td>
</tr>
<tr>
<td>STUDENT, NAME, PICTURE AND PROGRAM</td>
<td>SEX AND AGE</td>
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</tbody>
</table>
| AGBOHESOU MARIETTE               | FEMALE, 23 years (30/04/1994) | 1- Animal ethology: 0.50  
2- SIG: 08.50  
3- Conservation Biology: 9.25  
4- Sociology of Natural Resources: 9.75  
5- Climate Changes: 12.50  
6- Functioning of Forest’s Ecosystems: 14.50  
7- Functioning of Savannah Ecosystems: 14.50  
8- Measure of biological biodiversity: 15.00  
9- Landscape’s Ecology: 15  
10- Soils’ Ecological restoration: 15.25  
11- Genetic of population: 17  
12- Applied hydrobiology: 19.5 | 2011-2012: 1st Year of Bachelor degree  
2012-2013: 2nd Year of Bachelor degree  
2013-2014: 3rd Year of Bachelor degree  
2016-2017: Master 1 (Ongoing) | -Study of vegetation,  
-Forest inventory,  
-Nursery of forest species,  
-Management of agroforestry system  
-Ethnobotanical investigations,  
-Using of GPS,  
-Morphometric measurement,  
-Implementation of forest planting | CHALLENGE  
-Instable Internet connection for doing research at University, so we need to go to internet cafe outside of school,  
-Collect of data at the end on species with large values is very important challenge for conservation and valorization,  
-Another challenge is to write a scientific article on our results and to publish it in a Journal with impact factors | Pr. Dr. Ir. Achille E. ASSOGBADIO  
Dr. Ir. Valère Kolawolé SALAKO | Comparative analysis of the performancy of cuttings and marcotting in propagating Irvingia gabonensis and Adansonia digitata in Southern Benin |
<table>
<thead>
<tr>
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<th>CHALLENGES AND HOW THEY CAN BE ADDRESSED</th>
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</tr>
</thead>
</table>
| **Name:** GANDAHO Mahugnon. Mihinnoudéa. Cléo-Claudia       | Male | Master 1 record: Some notes  
- Genetics of the population: 16  
- General Hydrobiology: 18.25  
- Geographic information system, teledetection and cartography: 9.25  
- Ecosystem of savannas: 12  
- Dynamic of the animal populations: 14.50  
- Ethology: 13  
- Sociology of the natural resources: 11.50  
- Ecological Restoration: 13.45  
- Measure biodiversity: 14.25  
- Scientific drafting: 15.25  
- Biology of the conservation: 12.80  
- Climatic change: 09  
- Ecology of the landscape: 11.45  
- Ecology forest: 14.25 | End of Master 1 (This year)  
Beginning of Master 2 (Next Academic year) | - Know how on use of field works tools  
- Knowledge on how to field works  
- Good knowledge in R programming software  
- Knowledge I all basic statistics software  
- Knowledge in phytosociology records | - Difficulty to easily access materials due to financial support  
- Issues of internet access for research works  
- Lack of funds to finance practical works  
- I need financial support in order to address all these above challenges. | Prof Achille ASSOGBADJO Dr. ir. Rodrigue IDOHOU | Impact of climate changes on the distribution of the threatened Ipomoea beninensis in Benin (West Africa) |
# INDIVIDUAL REPORT FORM _ NURTURING GRANTS _ RUFORUM

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<th>SUPERVISOR (FULL NAME)</th>
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<tbody>
<tr>
<td>Family Name: HOUENOU</td>
<td>Sex: Male</td>
<td>- Licence, bachelor degree</td>
<td>- Master in progress (Available Scores per course)</td>
<td>- Ethnobotanical investigations;</td>
<td><strong>CHALLENGES</strong> The mean challenge here is to collect the data on species with large values of use with a view to passing later to their conservations and valorizations.</td>
<td>Prof Achille ASSOGBADJO</td>
<td>Local perception and habitat suitability modelling for ecological restoration of Milicia excelsa in Benin (West Africa)</td>
</tr>
<tr>
<td>Given Name: Jésugnon Ezéckiel</td>
<td>Age: 23 years old</td>
<td>First year of Master</td>
<td>- Forest inventory;</td>
<td>- Nursery and agroforestry system;</td>
<td><strong>HOW THEY CAN BE ADDRESSED</strong> This project can only be carried out on the basis of financial resources.</td>
<td>Dr. ir. Rodrigue IDOHOU</td>
<td></td>
</tr>
<tr>
<td>Program: Master</td>
<td></td>
<td></td>
<td>-Fauna knowledge and animal ethology: 10.7</td>
<td>- Morpho metric measurement.</td>
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<td></td>
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<td>-Biology of conservation: 11</td>
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<td></td>
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<td>-Dynamic of forest ecosystems: 15</td>
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<td>-Dynamic of savannah ecosystems: 12.5</td>
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<td>-Hydro -biology: 18</td>
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<td>-Scientific redaction: 13</td>
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<td>-Climate change: 9.75</td>
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<td>-GIS, cartography and remote sensing: 13.25</td>
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<td>-Sociology of natural resources: 12</td>
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<td>-Measurement of biodiversity: 12.8</td>
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<td></td>
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<td>-Dynamic of animal populations: 17.5</td>
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<tr>
<td>AGOUNDE GAFAROU</td>
<td>MALE</td>
<td>Population genetic: 17</td>
<td>2012-2013: Licence1</td>
<td>-2016: Internship at the Laboratory of Biomathematics and Forestry Estimation (LABEF) at the Faculty of Agronomic Sciences (FSA) of Abomey Calavi University (UAC)</td>
<td>-Finish second year of Master</td>
<td>Prof Achille ASSOGBADJO</td>
<td>Predicting climate change impact on elephant food resources in the Pendjari National Park</td>
</tr>
<tr>
<td></td>
<td>27</td>
<td>Hydrobiology: 15.5</td>
<td>2013-2014: Licence2</td>
<td>-2016: Training in English at BENIN-AMERICAN LANGUAGE CENTER (BALC) from Vodjè to Cotonou.</td>
<td>-Go to finally internship</td>
<td>Dr KOLAWOLE VALERE SALAKO</td>
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<tr>
<td></td>
<td></td>
<td>Biologie of conservation: 14</td>
<td>2014-2015: Licence3</td>
<td>-2015: Internship at the Tchaourou slaughterhouse and participation in the vaccination campaign against CBPP and bovine pasteurellosis;</td>
<td>-Draw a document for getting Master certificate</td>
<td>Dr RODRIGUE IDOHOU</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Forestery ecology: 13.75</td>
<td>2016-2017: Master1</td>
<td>-2015: End of training course on the fish farm Linssoussi Eugénie Anastasie (LEA) of Abomey;</td>
<td>-Undertake and return what we’re learnt in the professionals area.</td>
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<td></td>
<td></td>
<td>Measure of biodiversity: 14.60</td>
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<td>-2014: Internship in veterinary pharmacy and care of farm animals at the veterinary pharmacy of Marcel FADAIRO in Kétou;</td>
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<td></td>
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<td>Restauration of soils: 14.15</td>
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<td>-2014: Real-life Monography Course (MMR), conducted in Songhai Savalou;</td>
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<td>Scientific redaction: 17</td>
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<td>-2013: Internship of Discovery of the Rural Environment (DMR), carried out in the commune of Kétou.</td>
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<td>Climatologie: 12.5</td>
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<td>Landscape ecology: 12.35</td>
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<td>Ethology: 11</td>
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<tr>
<td>Name: Jean-Henock Sèmèvo VIAYINON</td>
<td>AGE: 23</td>
<td>Master 1 records (in progress)</td>
<td>Finishing Master1</td>
<td>Statistical Computation and Simulation: have learnt programing with R, MATLAB and Minitab. Quantitative genetics: have learnt how to use statistical methods to improve quantitative characters involved in plants and animals’ production Geostatistics: have learnt how to apply probabilistic models to geographical data multivariate statistical methods: have learnt how to explore and describe relationship between variables in a multidimensional database Database: Have learnt how to build, clean, manage database and interact with data Survival analysis: Have learnt how to analyze survival dataset Linear Models: Have learnt about simple and multiple linear regression Statistical Methods in Economy: have mastered econometry Others: Have learnt about machine learning in Python, coding web page using html and CSS, big data, business analysis, design thinking and making, problems solving.</td>
<td>Challenge 1: Degree completion Can be addressed by hard learning, personal researching and working about the courses’ contents and the thesis topic Challenge 2: PhD in Statistics &amp; Machine Learning Can be addressed by both completing master and still being motivated to learn and research deeper about artificial intelligence and machine learning requirements.</td>
<td>Prof. Dr. Ir Romain Lucas GLELE KAKAI</td>
<td>Nonlinear Mixed Effect Models</td>
</tr>
<tr>
<td>Program: Master in Statistics major biostatistics</td>
<td></td>
<td></td>
<td>Details Class attendance: Have well attended and passionately the courses Class assignments: Have completed all the assignment by the way. Homework: Well doing Behavior: Respectful and always motivated to learn more</td>
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<tr>
<td>Kevin Finagnon Toyi FASSINO</td>
<td>Male</td>
<td>Master I in progress.</td>
<td>Master I in progress.</td>
<td>Through this Master I, my level in nutrition and food science has increased.</td>
<td>Limited access to documentation was our main challenge. To face this challenge, we use usually the document which we have by internet access.</td>
<td>Dr. Ir. Flora Josiane CHADARE / Prof. Joseph D. HOUNHOUIGAN</td>
<td>Infant food formulation based on 2 selected food trees and shrubs from Benin.</td>
</tr>
<tr>
<td>Master in Nutrition and Food Science</td>
<td>24 years old</td>
<td>Below, the list of the courses that we have followed</td>
<td>Regarding this academic year, all courses was done (Except two courses “Informatique appliqué” and “Rédaction scientifique”) which are starting but not fishing.</td>
<td>During year I, we have performed a field practical training of “Rural monography” for 1.5 month</td>
<td>In the second part we have to improve our knowledge in laboratory analyses. To reach this aim, we can do a practical training after our course.</td>
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<td></td>
<td></td>
<td>• Valeur Biologique des Aliments : 16.5</td>
<td>• Modèle linéaire I</td>
<td></td>
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<td></td>
<td></td>
<td>• Qualité des récoltes, stockage et conservation : 12.42</td>
<td>• Modèle linéaire II</td>
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<td></td>
<td></td>
<td>• Bases biochimique et Physiologique de la Nutrition : 15.25</td>
<td>• Expérimentation Agricole</td>
<td></td>
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<td></td>
<td></td>
<td>• Nutrition appliquée : 16.5</td>
<td>• Anglais</td>
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<td></td>
<td></td>
<td>• Composés Bioactifs et qualité fonctionnelle des aliments : 17.16</td>
<td>• Genre et développement</td>
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<td></td>
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<td>• Evaluation Sensorielle : 18</td>
<td>• Nutrition et diététique</td>
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<td></td>
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<td>• Elaboration et Exploitation des tables : 17</td>
<td>• Alimentation et nutrition en cas d’urgence</td>
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<td>• Toxicologie et Sécurité Sanitaire des Aliments : 15</td>
<td>• Sécurité alimentaire et nutritionnelle</td>
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<td></td>
<td>• Rhéologie des aliments : 17</td>
<td>• Genèse des industries agroalimentaires</td>
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<td></td>
<td></td>
<td>• Additifs Alimentaires et épices : 17</td>
<td>• Opération unitaire du génie des procédés</td>
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<td></td>
<td></td>
<td>• Dynamique des modèles de consommation : 16</td>
<td>• Chromatographie</td>
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<tr>
<td></td>
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<td>However, except this list of the courses which we have followed, five exams were done but yet we don’t have our performance.</td>
<td>• Physiologie avancée de la nutrition</td>
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<td></td>
<td></td>
<td></td>
<td>• Informatique appliqué</td>
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<td></td>
<td></td>
<td></td>
<td>• Rédaction scientifique</td>
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<tr>
<td>Name: SACLA AIDE Edmond</td>
<td>Age: 22</td>
<td>Male</td>
<td>Master 1 records</td>
<td>Finishing Master 1</td>
<td>My main challenge is to well complete</td>
<td>-Prof GLELE KAKAI</td>
<td>Relative performances of optimization using mixture design</td>
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<td>Program: Master in Statistics</td>
<td>Sex: Male</td>
<td>(in progress)</td>
<td>This first year</td>
<td>Master 1 very</td>
<td>the master program. This can be</td>
<td>Romain</td>
<td></td>
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<tr>
<td>major Biostatistics</td>
<td></td>
<td>Details</td>
<td>interesting. The</td>
<td>interesting. The</td>
<td>addressed by learning very hard,</td>
<td>Dr CHADARE Flora</td>
<td></td>
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<td></td>
<td></td>
<td>• English: 17,83</td>
<td>courses were very</td>
<td>courses were very</td>
<td>improving my personal researching.</td>
<td>Josiane</td>
<td></td>
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<td></td>
<td></td>
<td>• Univariate: 15</td>
<td>fascinating and</td>
<td>fascinating and</td>
<td>My second challenge is to associate</td>
<td>Dr SALAKO Kolawole</td>
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<td></td>
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<td>• Probability: 14,40</td>
<td>well attended. I</td>
<td>well attended. I</td>
<td>biostatistics with nutrition and food</td>
<td>Valere</td>
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<td></td>
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<td>• Analysis: 12</td>
<td>have learned so</td>
<td>have learned so</td>
<td>sciences</td>
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<td>• Partial</td>
<td>much specially</td>
<td>much specially</td>
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<td>Differential</td>
<td>the group’s work</td>
<td>the group’s work</td>
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**INDIVIDUAL REPORT FORM _ NURTURING GRANTS _ RUFORUM**

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<th>STUDENT NAME, PICTURE AND PROGRAM</th>
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<th>ACADEMIC RECORD</th>
<th>ACADEMIC PROGRESS</th>
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<th>CHALLENGES AND HOW THEY CAN BE ADDRESSED</th>
<th>SUPERVISOR (FULL NAME)</th>
<th>TENTATIVE RESEARCH TOPIC</th>
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| Name: Bissilimou Rachidatou OROUNLA | Sex: Female  
Age: 23 | Master 1 records  
Actually, we have not the final result (in progress)  
**Details**  
- English: 14.82  
- Univariate: 13  
- Probability: 13.2  
- Partial Differential Equation: 15.50  
- Geostatistics: 15.25  
- Genetics: 18 | Finishing Master 1  
The courses have been well doing. This imply a motivation to learn more | Concepts in:  
- Mathematical, probability and Statistical Methods in Economy  
- Statistical Computation and Simulation (programing with Minitab, MATLAB and R)  
- Quantitative genetics (use statistical methods to improve quantitative characters involved in plants and animal’s production)  
- Geostatistics (to apply probabilistic models to geographical data)  
- Multivariate statistical methods (explore and describe relationship between variables)  
- Linear Models (simple and multiple linear regression)  
- Database (how to build, clean, manage database and interact in Access and Cpro)  
- Survival analysis (to analyze survival dataset) | No challenge | Prof. Dr. Ir. Romain Lucas GLELE-KAKAI | Multiples Correspondence Analyses and typology of cows breeder |