

Curriculum Vitae: Heveakore Maraia

Personal information:

Nationality: Papua New Guinea

Address: New Guinea Binatang Research Centre,
P.O.Box 604, Madang 511, Papua New Guinea

Phone: (+675) 72976484

Email: maraiah205@gmail.com

Professional Preparation:

- 2013 Bachelor of Science in Forestry, Papua New Guinea University of Technology
- 2017 MSc in Forestry, at the Department of Forestry, Papua New Guinea University of Technology- Awaiting graduation (8th April 2019)

Selected awards:

- Final Year Scientific Research Project Award (Bachelor degree, Forestry)
- British American Tobacco Scholarship Award (2012-2013)
- Dendrology/Tree Identification Award (2nd year forestry)

Research Interest:

- Forest Biodiversity; focus on using plants, as bio-indicator of species-rich biodiversity hotspots; Forest Ecology—dispersal and pollination mechanism of plant species leading to speciation; Botany and Plant Systematics; Forest Conservation; Community Forestry and Environmental Impact Assessments studies

Volunteer history:

16th Aug–23rd Nov 2016

Biodiversity Expedition to the Baining Mountains, New Britain Island: Regional Biodiversity Survey funded by UNDP, CEPA and Bishop Museum, Honolulu, Hawaii, USA, to establish conservation areas in non-conservation sites in Papua New Guinea.

15th Nov 2012–27th Jan 2013

PNG Forest Research Institute (Biology Department)—Participated in volunteer work with PNG Forest Research Institute under the supervision of Senior Botanist, Mr. Kipiro Damas (Plant Biology Section). Assisted in herbarium work specifically, entering details of collection done by various collectors all over PNG and West New Guinea into Ledger books as references for verification. Also, sorting of plants specimens into their respective cabinets.

05th March–19th April 2012

Industrial training with National Forest Service, Bulolo Forest Plantation Project:

Responsibilities included planting trees, plantation inventory, researching, constructing forest roads and bridges, mapping, raising seedlings, and forest survey and enumeration.

13th Dec 2011–11th Feb 2012

Assisted Professor Robert J. Johns on a project titled: Regional Vegetation Classification System for Western Pacific Botanical collections, identification of plants at PNG Forest Research Institute and University of PNG herbaria respectively.

Work Experience:

March 2018-Present

New Guinea Binatang Research Centre Ltd- currently working as a botanist in several projects including;

- 1) Succession and forest regeneration,
- 2) Effect of herbivores on plants,
- 3) Ethno-biology,
- 4) Assessment of 50 ha dynamic plot in Wanang Conservation Area, Madang Province, Papua New Guinea (including data basing of all the plant species in the 50-ha plot using Microsoft Access),
- 5) Community Facilitation on Climate Change & Adaptation and Biodiversity

Conservation, and

6) How to make plants good and bad for insects: Plants defence mechanisms.

Nov 2013 – Feb 2014

Papua New Guinea Forest Authority (Policy and Planning Directorate-Inventory Section)—
Participated in National Forest Inventory Project (NFI Project, PNG Forest): Vegetation
classification under funding of FAO.

Short Courses:

7th –14th April 2017

Participated in the Botanical training at Varirata National Park

—I ran a training program on botanical survey to locals on how to collect specimens in the
field— what materials to be collected, how to do pressing, labelling and documentation, drying
and preservation and finally for transportation to storage places (Herbaria or Museums)

27th Jan–07th Feb 2014

Attended the Mangrove Carbon Biomass Assessment at Motupore Island, Central Province,
hosted by University of PNG under MARSH project.

26th Nov–07th Dec 2012

Attended the Basic ArcGIS training hosted by PNGFA & JICA at PNG University of
Technology, Forestry Department.

11th May–05th Jun 2012

Attended the Six-week training on timber harvesting, at Bulolo Forestry College plantation

27th Apr–07th May 2012

Participated in a two-week Forest Inventory and Assessment conducted in Kau Wildlife
Management Area, Madang Province Papua New Guinea

Publications

Boronyak, L., Jacobs, B., McKenna, K., Dem, F., Pomoh, K., Sui, S., Jimbudo, M and **Maraia, H.** (2018) Engagement on Biodiversity Conservation and Climate Change Adaptation in Papua New Guinea. Prepared for USAID by the Institute for Sustainable Futures, University of Technology Sydney, Australia and the New Guinea Binatang Research Centre

Maraia, H., Orsak, L., Weiblen, G., Whitfeld, Novotny, V & Okpul, T. (2019) Niche partitioning in three sympatric *Ixora* L. species at Wanang Conservation Area, Madang Province, Papua New Guinea, in Preparation

Maraia, H., Orsak, L., O. Gideon & Okpul, T. (2019) An update on the distribution and morphology of *Ixora amplexifolia* in Papua New Guinea. Phytotaxa, In Press

Maraia, H. (2017) Investigating aspects of niche partitioning in *Ixora* L. (Rubiaceae) and its spatial and genetic diversity in Papuasias (**MSc. Thesis**). Papua New Guinea University of Technology, PNG

Seminar Presentations

03rd Oct 2017, Genetic Diversity and Distribution of Papuasian *Ixora* L. (Ixoroideae, Rubiaceae) — PNG Unitech Post Graduate Research Seminar

17th May 2017, Why Biological Diversity Assessments Are Important: Case Study of Baining Expedition (East New Britain)—Forestry Departmental Seminar

14th May 2014, Carbon inventories in the mangrove forests of central province— Forestry Departmental Seminar

October 2013, Variation in plant diversity and life form within a 300m elevation forest in Oomsis, Morobe Province, Papua New Guinea—Undergraduate Research Project Presentation

Referees:

1. Professor Vojtech Novotny
Director,
New Guinea Binatang Research
Centre, P.O. Box 604 Madang,
Papua New Guinea
Email: novotny@entu.cas.cz
Phone: (+675) 79686878

2. Professor Tom Okpul
Acting Director,
Unitech Biotechnology Centre - Agriculture
Department, PNG University of Technology,
Private Mail Bag, Lae, Morobe Province 411.
Papua New Guinea
Email: tom.okpul@pnguot.ac.pg
Phone: (+675) 71405554