

# CURRICULUM VITAE

## PERSONAL INFORMATION

- **Full name:** Blaise Binama
- **Email:** [binablaiso120@gmail.com](mailto:binablaiso120@gmail.com)
- **Mobile Phone:** +491711523669
- **Place of Residence:** Bielefeld, Germany

## EDUCATION

- **PhD (2019-2023):**
  - University of Bielefeld, Faculty of Biology, Department of Chemical Ecology
  - Doctor of Natural Science (Dr. rer. nat.)
  - Thesis title: Establishment and trait variation of a range expanding Brassicaceae species under various growth conditions
  - Supervisor: Prof. Dr. Caroline Müller
- **MSc (2016-2018):**
  - Technische Universität Dresden/IHI Zittau, Germany
  - MSc in Biodiversity and Collection Management
  - Thesis title: Cytogenetic investigations on *Fragaria* species native to Germany using Fluorescent *in-situ* Hybridization
  - Supervisors: Prof. Dr. Karsten Wesche, Dr. Christiane M. Ritz
- **BSc (2012-2016):**
  - University of Rwanda, College of Science and Technology, Biology Department
  - BSc with Honours in Biology/Botany and Conservation
  - Thesis title: *Ficus* species distribution within the home range of chimpanzees in Nyungwe National Park, Rwanda
  - Supervisor: Prof. Dr. Beth A. Kaplin

## WORK EXPERIENCE

- **Research Assistant (July 2019–March 2023):**
  - University of Bielefeld
  - Teaching: Plant defence mechanisms, biology of invasive plants, Data analysis with R programming
  - Supervision in project modules and bachelor's student
- **Individual Consultant (Nov–Dec 2022):**
  - UNESCO World Heritage Centre
  - Reviewing and support in completing nomination dossiers.
  - Finalising maps for the Gola-Tiwai Complex, Sierra Leone
- **Researcher Affiliate (Nov 2018–Jun 2019):**
  - Centre of Excellence in Biodiversity and Natural Resource Management (CoEB), UNESCO Category 2 Centre
  - Coordinated biodiversity information system project for Rwanda

- Coordinated biodiversity data management meeting organization in Rwanda (BITC2)/ Oxford University
- Contributed to the GIBF data publication.
- Contributed to the Environmental and Social Impact Assessment Report following the environmental assessment of the proposed roads and drainage infrastructure subprojects of the Rwanda Urban Development Project
- **Internship (April–May 2017):**
  - Herbarium data management, Senckenberg Görlitz
- **Lab Work (Sep 2017–Jun 2018):**
  - Molecular biology of the *Fragaria* population (strawberry) in Central Europe, Senckenberg Görlitz
- **Internship (Jun 2017):**
  - Amber Research at Palaeontology and Historical Geology, Senckenberg, Frankfurt
- **Volunteer (Jan-Jun 2016):**
  - Centre of Excellence in Biodiversity and Natural Resource Management (CoEB)
  - Communication materials design, including website and social media development
  - Participation for East African Plant Red Listing 2016

## LANGUAGES

- English: Very Good (Speaking, Writing, Listening)
- French: Good (Speaking, Writing, Listening)
- Deutsch: Intermediate B1 (Speaking, Writing, Listening)
- Kinyarwanda: Fluent (Speaking, Excellent writing, Excellent listening)
- Swahili: Good (Speaking, Writing, Listening)

## COMPUTER SKILLS

- Microsoft Office, website design
- R programming, IPSIM, Structure, PAST, SPSS, MaxEnt, CLASlite, Arc GIS, Remote Sensing, MVSP, GCMS analysis, and Chromeleon 7 (HPLC)

## RESEARCH INTERESTS

- Plant ecology and their interaction with (a)biotic factors
- Plant breeding and population genetics
- Biodiversity conservation and effect of global climate change

## PUBLICATIONS

1. **Binama, B.**, and Caroline Müller. In review. Growth and competition between plants of a naturalised and an invasive population of *Bunias orientalis*. Ecology and Evolution
2. Buschmann, S., Tushabe, D., **Binama, B.**, Herklotz, V., Neinhuis, Olbricht, K., and Ritz, C. In Prep. Genetic diversity in European native strawberries and the origin of spontaneous hybrids

3. **Binama, B.**, and Caroline Müller. Differences in functional traits among distinct populations of the plant invader *Bunias orientalis*. *Journal of Plant Ecology*, 15 (3), 524–537 (2022). [DOI](#)
4. **Binama, B.**, Behrendt, M., & Müller, C. The responses of *Bunias orientalis* to short-term fungal infection and insect herbivory are independent of nutrient supply. *Journal of Chemical Ecology*, 48, 827–840 (2022). [DOI](#)
5. **Binama, B.** (2016). *Ficus* species distribution within the home range of chimpanzees in Nyungwe National Park, Rwanda. Unpublished Data

## GRANTS

- **2022:**
  - German Botanical Society: International conference of the German Botanical Society, 28 August -1 September 2022, 400 euros
- **2015:**
  - World Wildlife Fund-Rwanda Environmental Management Authority: Sustainable solid waste management at the University of Rwanda, Huye Campus, November 2015-January 2016, 5000 dollars

## CERTIFICATES AND ACHIEVEMENTS

- **2023:**
  - Youth jury for the International Association of Horticultural Producers (AIPH) World Green City Award 2024
- **2023:**
  - Certificate of completion of the mentorship programme for African World Heritage Professionals
- **2023:**
  - Hyperspectral data for land and coastal systems is organised by ARSET and NASA
- **2018:**
  - Certificate of completion of the e-learning course on valuing biodiversity organised by UNEP and CBD
- **2014-2016:**
  - Coordinator for Rwandan University Club for Conservation of Biodiversity, University of Rwanda
- **2016:**
  - Certificate of completion of the MaxEnt training organised by RNCEAR in partnership with CoEB
- **2015:**
  - Certificate of completion of the training in indigenous knowledge and biodiversity conservation organised by RNCEAR
- **2015:**
  - Certificate of completion of the introductory training in remote sensing for conservation and tropical forest monitoring using CLASlite organised by RNCEAR
- **2013-2015:**
  - Certificate of completion of the training in public speaking and leadership skills (Competent Communicator) organised by the Toastmasters International

- **2014:**
  - Certificate of completion of the training in the use of camera trapping in ecological studies organised by the University of Rwanda alongside Antioch University students

## CONFERENCES AND SCIENTIFIC VISITS

- **2023:**
  - Posit conference: Bringing together ideas, technologies, and people (data science), Chicago (Online)
- **2022:**
  - International conference of the German Botanical Society, Bonn
- **2021:**
  - Annual conference of the ecological society, Germany
- **2017:**
  - Visit the Zoo and Botanical Garden in Liberec, Czech Republic
- **2017:**
  - Visit and Fieldwork at UNESCO Biosphere Reserve Upper Lausitz Heath and Pond Landscape, Germany
- **2017:**
  - Seminar on Nagoya Protocol, Access, and Benefit Sharing, organised by Senckenberg Museum, Germany
- **2017:**
  - Fieldwork at Bohemian Mountain, Czech Republic
- **2017:**
  - Visit the Botanical Garden in Dresden, Germany
- **2017:**
  - Visit Linnaeus Garden and Museum, Uppsala, Sweden

## MENTORSHIP PROGRAMME

- **2021-2022:**
  - Mentorship programme for African World Heritage Professionals
  - Active participation in the 44th extended session of the WHC
  - Work of consultation on the management plan of Aïr and Ténéré National Nature Reserve
  - Review of the Report on the Reactive Monitoring Process
  - Design the first Massive Open Online Course on world heritage sites
  - Support Somalia in developing their first tentative list (Natural sites)
- **2013-2015:**
  - Public speaking and leadership mentorship with Toastmasters International

## MEMBERSHIPS

- **Since 2022:**
  - Member of the German Botanical Society
- **Since 2018:**
  - Member of the Global Youth Biodiversity Network

- **2017-2018:**
  - Speaker for Senckenberg Young Scientists
- **Since 2017:**
  - Member of the British Ecological Society
- **2017-2019:**
  - Member of BUND Friends of the Earth Germany
- **Since 2016:**
  - Member of ARCOS Rwanda
- **2016-2018:**
  - Member of Senckenberg

## REFERENCES

1. **Prof. Dr. Caroline Müller**
  - Email: [caroline.mueller@uni-bielefeld.de](mailto:caroline.mueller@uni-bielefeld.de)
  - Tel.: +49 (0)521 106 5524
  - Head of the Chemical Ecology Group at the University of Bielefeld
2. **Prof. Dr. Karsten Wesche**
  - Email: [karsten.wesche@senckenberg.de](mailto:karsten.wesche@senckenberg.de)
  - Tel.: +49 3581 4760 5300
  - Chair of Biodiversity of Plants, TU Dresden/IHI Zittau/Director of Senckenberg Museum Gorlitz, Germany
3. **Prof. Dr. Beth A. Kaplin**
  - Email: [bkaplin@antioch.edu](mailto:bkaplin@antioch.edu)
  - Tel.: +250788664551
  - Director of the CoEB UNESCO Category 2 Centre, College of Science and Technology, University of Rwanda

## DECLARATION

I declare that the information provided is true to the best of my knowledge. Any misrepresentation may result in disqualification.