

Curriculum vitae

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EDUCATION

2021: PhD student in Science and Technology, Department of Zoology and Animal Biodiversity, Faculty of Sciences, University of Antananarivo, Madagascar

2016: Master's degree in Science and Technology, Department of Zoology and Animal Biodiversity, Faculty of Sciences, University of Antananarivo, Madagascar

2015: Bachelor's degree in Natural Science, Faculty of Sciences, University of Antananarivo, Madagascar

2013: University Diploma of Scientific Studies in Natural Science, Faculty of Sciences, University of Antananarivo, Madagascar

2009: Scientific Baccalaureate Diploma, Lycée Jean Joseph Rabearivelo, Antananarivo, Madagascar

PROFESSIONAL EXPERIENCE

May 01, 2022-April 30, 2023: University of Berkeley, University of Chicago, University of Antananarivo, Teaching coordinator of the training “Coding for Conservation: Quantitative training for the next generation of environmental leaders in Madagascar” focused on the manipulation of the R software.

July 2021-February 2022: Mention Zoology and Animal Biodiversity of the University of Antananarivo, Researcher (DNA extraction, PCR, qPCR, data analysis) on the project “Impact of the invasion of *Procambarus virginalis* on human health in Madagascar”

February 2019-July 2021: Pasteur Institute of Madagascar, Research assistant (capture and marking of bat individuals, data collection) on the project “Modeling the dynamics of diseases in the population of fruit bats in Madagascar”

June-August 2018: Duke Lemur Center, Research Assistant (survey) on the project “Identifying the ecological factors of infectious disease transmission in Madagascar”

June 2017: Centre Valbio, Research assistant (capture of leech individuals) on the project “Leech as a source of iDNA: a rapid technique for monitoring biodiversity by identifying the favorite hosts of leeches”

2015-2016: Mention Zoology and Animal Biodiversity, University of Antananarivo, Assistant professor during the practical and supervised course of the Animal Biology course

TRAINING

06-14 January 2020: “E2M2: Ecological and Epidemiological Modeling in Madagascar” organized by the NGO Pivot, Centre ValBio Ranomafana, Pasteur Institute of Madagascar, Mahaliana Lab.

July 01-05, 2019: “Molecular Ecology and R course” organized by Princeton Environmental Institute, Johns Hopkins, Mahaliana Lab.

November 23, 2016: “IMET: A tool to improve the planning, management and Monitoring of Protected Areas” organized by the Network of Conservation Educators and Professionals (REPC).

August 2016: “Achieving Scientific Ecological Monitoring at a few sites in Marojejy-Anjanaharibe South-Tsaratana Corridor (COMATSA)” part of the WWF MG 2013.01-Managed Resources Protected Areas and WWF MG 2009.01-Climate Change Adaptation Project, organized by the Vintsiala club of the Faculty of Sciences, University of Antananarivo, Madagascar

2013-2015: “Didactic and Communication in Sciences (DICOS)”, level 2 to 4 organized by the Faculty of Sciences, University of Antananarivo, Madagascar

RESEARCH GRANTS/FELLOWSHIPS AWARDED

May 01, 2022-April 30, 2024: Funding for the project “Assessing conservation status and population viability for the endangered Malagasy flying fox” by National Geographic Society

May 01, 2022-April 30, 2023: Funding for the training “Coding for Conservation: Quantitative training for the next generation of environmental leaders in Madagascar” by National Geographic Society

PUBLICATIONS

- (1) Andrianiana, A., Andry, S., Gentles, A., Guth, S., Heraud, J-M., Ranaivoson, H.C, **Ravelomanantsoa, N.A.F**, Treuer, T. & Brook, C.E. (2022). Reproduction, seasonal morphology, and juvenile growth in three Malagasy fruit bats. In Revision. *Journal of Mammalogy*.
- (2) Kettenburg, G., Kistler, A., Ranaivoson, H.C, Ahyong, V., Andrianiana, A., Andry, S., DeRisi, J.L, Gentles, A., Raharinosy, V., Randriambolamanantsoa, T.H,

- Ravelomanantsoa, N.A.F**, Tato, C.M, Dussart, P., Heraud, J-M. & Brook, C.E. (2022). Full genome *Nobecovirus* sequences from Malagasy fruit bats define a unique evolutionary history for this coronavirus clade. *Frontiers in Public Health* 10: 786060.
- (3) Jones, D., **Ravelomanantsoa, N.A.F**, Yeoman, C.J, Brook, C.E. & Plowright. R. (2022). Do gastrointestinal microbiomes play a role in bat' unique viral hosting capacity? *Trends in Microbiology*, 2048: 1-11.
- (4) Herrera, J.P., Rabezara, J.Y., **Ravelomanantsoa, N.A.F.**, Metz, M., France, C., Owens, A., Pender, M., Nunn, C. & Kramer, R. (2021). Food insecurity related to agricultural practices and household characteristics in rural communities of northeast Madagascar . *Food Security*, 13: 1393-1405.
- (5) **Ravelomanantsoa, N.A.F**, Guth, S., Andrianiana, A., Andry, S., Gentles, A., Ranaivoson, H.C. & Brook, C.E. (2020). The zoonotic potential of bat-borne coronaviruses. *Emerging Topics in Life Sciences*, 4(4): 1-17.
- (6) Kramer, R., Herrera, J.P., Fitzgerald, R., Moody, J., Owens, J., Pender, M., **Ravelomanantsoa, N.A.F.**, Regula, L., Tortosa, P. & Nunn, C. (2019). Biodiversity, land use change, and human health in northeastern Madagascar: an interdisciplinary study. *The Lancet Planetary Health*.
- (7) Fahmy, M., **Ravelomanantsoa, N.A.F**, Youssef, S., Hekkala, E. & Siddall, M. (2019). Biological inventory of Ranomafana National Park tetrapods using leech-derived iDNA. *European Journal of Wildlife Research*, 65(5).
- (8) **Ravelomanantsoa, N.A.F.**, Razafimalala, F., Rakotomalala, Z., Ranivo, J., Razafimanjato, G., Rene de Roland, L-A., Ramasindrazana, B., Rakotondramanana, C.F. & Goodman, S.M. (2019). Les chauves-souris du Paysage Harmonieux Protégé du Complexe Tsimembo Manambolomaty, Région Melaky, Madagascar : Diversité et biogéographie. *Malagasy Nature*, 13: 105-116.

LANGUAGE

Malagasy : Mother tongue

French: Second language

English: Level A1C

PROFESSIONAL MEMBER

Simple member of the Asity Madagascar Association

Simple member of the Ikala STEM Association, Madagascar Chapter

ADDITIONAL INFORMATION

Software: Microsoft office, R studio

Volunteering: Volunteer for the program on children's health during Operation Smile, organized by the Ministry of Communication with the Association Youth for Christ Madagascar

Hobbies : Swimming, Reading