



Curriculum Vitae

Personal information **Félicien Tosso**

Work experience

1. Employer: Federal Agency for Medicines and Health Products
 - Start date: 032024
 - End date:
 - Position: Data management coordinator
 - Activities: data initiatives coordination - supports the transversal collaboration within the FAMHP in data science domain
 - Country: Belgium
2. Employer: NMBS-SNCB
 - Start date: 032021
 - End date: 022024
 - Position: Data scientist
 - Activities: Data management - data analysis (including statistical modelling : machine learning, deep learning and artificial intelligence) - developed models and tools based on data and analytics for the strategy development and decision-making for business - data project management
 - Country: Belgium
3. Employer: Nature+
 - Start date: 082018
 - End date: 022021
 - Position: Project manager
 - Activities: project management - data management - business plan drafting and business analysis using data science approaches (data management and analysis)
 - Country: Belgium
4. Employer: Université Libre de Bruxelles
 - Start date: 092013
 - End date: 012021
 - Position: Scientific collaborator in bioinformatics
 - Activities: Next generation sequencing (DNA and RNA) data analysis - Research collaboration on several scientific projects (machine learning, frequentist and bayesian statistics and bioinformatics)
 - Country: Belgium
5. Employer: United Nations Development Program
 - Start date: 122009
 - End date: 072012
 - Position: Spatial data analyst
 - Activities: Data management and analysis of spatial data – project management
 - Country: Benin

Education and training

1. Université d'Abomey-Calavi
 - 092004

- 112009
- Bioengineer
- Benin

2. Gembloux Agro-Bio Tech, Université de Liège

- 092012
- 082013
- M.Sc. Environmental Sciences
- Belgium

3. Gembloux Agro-Bio Tech, Université de Liège

- 092012
- 082013
- Ph.D. Agronomic sciences and biological engineering
- Belgium

Additional information

Publications

Articles 1. Makemba, R. N., Moupela, C., Tosso, F., Brostaux, Y., Drouet, T., Oslisly, R., ... & Doucet, J. L. (2022). New evidence on the role of past human activities and edaphic factors on the fine-scale distribution of an important timber species: *Cylicodiscus gabunensis* Harms. *Forest Ecology and Management*, 521, 120440. 2. Adjalla Christian, Félicien Tosso, Kolawolé Valère Salako and Achille Ephrem Assogbadjo (2022). Soil seed bank characteristics along a gradient of past human disturbances in a tropical semi-deciduous forest: Insights for forest management. *Forest Ecology and management*, 503, 119744. 3. Bibang Bengono, G., Souza, A., Tosso, F., Doucet, R., Richel, A., & Doucet, J. L. (2021). Les Dialium de la région guinéo-congolaise (synthèse bibliographique). *Biotechnologie, Agronomie, Société et Environnement*, 25(3), 172-191. 4. Daïnou, K., Tosso, F., Bracke, C., Bourland, N., Forni, E., Hubert, D., ... & is Life, F. (2021). Guide pratique des plantations d'arbres des forêts denses humides d'Afrique. Les Presses Agronomiques de Gembloux. 5. Tosso F., Daïnou K., Sonké B., Levicek C., Bracke C., Forni E., Jobé-Duval B., Ligot G., Tchuanté Tité V., Gourlet-Fleury S., Doucet J.-L. (2020). Sentiers de suivi de la croissance, de la mortalité et de la phénologie des arbres tropicaux : Guide méthodologique. Gembloux, Belgique : Les Presses Agronomiques de Gembloux, 119 p. 6. Ndiade-Bourobou, D., Daïnou, K., Hardy, O. J., Doumenge, C., Tosso, F., & Bouvet, J. M. (2020). Revisiting the North-South genetic discontinuity in Central African tree populations: the case of the low-density tree species *Baillonella toxisperma*. *Tree Genetics & Genomes*, 16(1), 1-11. 7. Tosso, F., Doucet, J. L., Daïnou, K., Fayolle, A., Hambuckers, A., Doumenge, C., ... & Hardy, O. J. (2019). Highlighting convergent evolution in morphological traits in response to climatic gradient in African tropical tree species: The case of genus *Guibourtia* Benn. *Ecology and evolution*, 9(23), 13114-13126. 8. Makemba, R. N., Tosso, F., Moupela, C., Dainou, K., & Doucet, J. L. (2019). *Cylicodiscus gabunensis* Harms: a popular species in international trade. A review. *BASE*, 23(3), 188-202. 9. Tosso, F., Hardy, O. J., Doucet, J. L., Daïnou, K., Kaymak, E., & Migliore, J. (2018). Evolution in the Amphi-Atlantic tropical genus *Guibourtia* (Fabaceae, Detarioideae), combining NGS phylogeny and morphology. *Molecular phylogenetics and evolution*, 120, 83-93. 10. Douh, C., Daïnou, K., Loumeto, J. J., Moutsambote, J. M., Fayolle, A., Tosso, F., ... & Doucet, J. L. (2018). Soil seed bank characteristics in two central African forest 2 types and implications for forest restoration. *Forest Ecology and Management*, 409, 766-776. 11. Daïnou K., Blanc-Jolivet C., Degen B., Kimani P., Ndiade-Bourobou D., Donkpegan A. S., Tosso F., Kaymak E., Bourland N., Doucet J.L. & Hardy O. J. (2016). Revealing hidden species diversity in closely related species using nuclear SNPs, SSRs and DNA sequences—a case study in the tree genus *Milicia*.

BMC Evolutionary Biology, 16(1), 259. 12. Tosso, F., Doucet, J. L., Migliore, J., Daïnou, K., Kaymak, E., Kameni, F. S. M., & Hardy, O. J. (2017). Characterization of Microsatellite Markers in the African Tropical Tree Species *Guibourtia ehie* (Fabaceae, Detarioideae). *Applications in Plant Sciences*, 5(7), 1700023. 13. Monthe F. S., Duminil J., Tosso F., Migliore J., & Hardy O. J. (2017). Characterization of Microsatellite Markers in Two Exploited African Trees, *Entandrophragma candollei* and *E. utile* (Meliaceae). *Applications in Plant Sciences*, 5(2), 1600130. 14. Tosso F., Doucet J. L., Kaymak E., Daïnou K., Duminil J., & Hardy O. J. (2016). Microsatellite development for the genus *Guibourtia* (Fabaceae, Caesalpinioideae) reveals diploid and polyploid species. *Applications in Plant Sciences*, 4(7), 1600029. 15. Demenou B. B., Migliore J., Tosso F., Kaymak E., & Hardy, O. J. (2015). Development and characterization of microsatellite markers in the African deciduous tree *Terminalia superba* (Combretaceae). *Applications in plant sciences*, 3(12), 1500070. 16. Félicien Tosso, Georges Lognay, Gauthier Cherchye, Olivier J. Hardy, Kasso Daïnou, Nikki Tagg, Stéphanie Heuskin, Barbara Haurez, Alain Souza, and Jean[1]Louis Doucet (2017). Characterization of animal communities involved in seed dispersal and predation of *Guibourtia tessmannii* Harms (J. Léonard), a species newly listed on Appendix II of CITES. *African Journal of Ecology*, DOI. 10.1111/aje.12480 17. Tosso F., Daïnou K., Hardy O.J., Sinsin B. et Doucet J.L. (2015). Le genre *Guibourtia* Benn., un taxon à haute valeur commerciale et sociétale (synthèse bibliographique). *Biotechnologie, Agronomie, Société et Environnement*, 19 (1) : 71-88. 18. Félicien Tosso, Jean-Louis Doucet, Kasso Daïnou, Alain Hambuckers, Adeline Fayolle, Honoré Agbazahou, Charles Doumenge, Olivier J. Hardy. Phylogenetic patterns of diversification across ecological niches in the African trees of genus *Guibourtia* support convergent evolution of morphological traits along a climatic gradient. Submitted to *Journal of Ecology* 19. Sikirou, R., Ezin, V., Beed, F., Paterne, S.A., Afoha, E., Tosso, F. & Idrissou, F.O. (2015). Geographical distribution and prevalence of the main tomato fungal wilt 3 diseases in Benin. *International Journal Biological Chemical Sciences*. 9:2, 603- 613. 20. Sikirou, R., Zannou, A., Gbèhounou, G., Tosso, F., & Komlan, F. A. (2010). Fungicide emect of banana column juice on tomato southern blight caused by *Sclerotium rolfsii*: Technical and economic efficiency. *African Journal of Agricultural Research*, 5(23), 3230-3238. 21. Tosso Félicien, Olivier Hardy, Jean-Louis Doucet, Kasso Daïnou, Esra Kaymak and Jérémy Migliore. Evolution in the African-Neotropical genus *Guibourtia* (Fabaceae, Caesalpinioideae), combining NGS phylogeny and morphology. *European Conference of Tropical Ecology*, 6-10 Feb 2017, Bruxelles, Belgium. 22. Tosso Félicien, Olivier J. Hardy, Jérémy Migliore, Kasso Daïnou, Alain Hambuckers, Honoré Agbazahou, Charles Doumenge, Adeline Fayolle and Jean[1]Louis Doucet. How far ecological niche influences organism morphology among related African species within the *Guibourtia* (Leguminosae) genus. 53th , ATBC congress, Montpellier 2016, France. 23. Tosso Félicien, Daïnou Kasso, Hardy J. Olivier, Lejeune Philippe, Doucet Jean[1]Louis. Functional traits and speciation of tropical african species: the case of genus *Guibourtia* Benn. 7 février 2014, le "19th National Symposium on Applied Biological Sciences", Gembloux, Belgium. 24. Félicien Tosso, Kasso Daïnou, Alain Hambuckers, Louis François, Brice Sinsin, Olivier J. Hardy, Jean-Louis Doucet. Importance of niche-based modelling in the management of exploited tropical species: the case of taxa such *Guibourtia* Benn. 23 juillet 2014, Cairns, Australie. DOI:10.13140/2.1.4526.8804. 25. Hambuckers, A., Dury, M., Tosso, F., Trolliet, F., Huynen, M. C., Haineaux, D., ... & François, L. (2014). Modelling the future range and productivity of African tree species. Perspectives and limits. In *First International Conference on Biodiversity in the Congo Basin*, Juillet 2014, Kisangani, RDC. 26. Tosso Félicien, Daïnou Kasso, Hardy J. Olivier et Doucet Jean-Louis. Le genre *Guibourtia* Benn: un modèle biologique idéal pour comprendre les mécanismes de spéciation. 6 novembre 2013, Symposium Paul DuVigneaud, Bruxelles, Belgium. 27. Félicien Tosso, Jean-Louis Doucet, Kasso Daïnou, Alain Hambuckers, Adeline Fayolle, Honoré Agbazahou, Charles Doumenge, Olivier J. Hardy. How far ecological niche influences organism morphology among

related African species within the *Guibourtia* (Fabaceae) genus? 19-23 June, ATBC 2016 Annual Meeting, Montpellier, France 28. Tosso Félicien, Olivier Hardy, Jean-Louis Doucet, Kasso Daïnou, Esra Kaymak and Jérémy Migliore. Evolution in the African-Neotropical genus *Guibourtia* (Fabaceae, Caesalpinioideae) combining NGS phylogeny and morphology. 6-10 February 2017, European Conference of Tropical Ecology, Bruxelles, Belgium 4 29. Félicien Tosso, Jean-Louis Doucet, Kasso Daïnou, Alain Hambuckers, Adeline Fayolle, Honoré Agbazahou, Charles Doumenge, Olivier J. Hardy. Phylogenetic patterns of diversification across ecological niches in the African trees of genus *Guibourtia* support convergent evolution of morphological traits along a climatic gradient.

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