

Dr. Magdalene N. Ngeve

Department of Plant Science and Landscape Architecture
 University of Maryland
 4291 Fieldhouse Drive
 College Park, MD 20742
 mngeve@umd.edu | magngeve@gmail.com
 Phone: 443 – 410 – 1820

Education

-
- | | |
|------|--|
| 2017 | Ph.D. in Biology (Conservation Ecology and Genetics),
Vrije Universiteit Brussel, Belgium
Advisors: Prof. Dr. Ludwig Triest & Prof. Dr. Nico Koedam |
| 2013 | M.S in Biology (Environment, Biodiversity and Ecosystems),
Vrije Universiteit Brussel, Belgium
Advisor: Prof. Dr. Marc Kochzius |
| 2010 | B.S in Zoology (minor: Medical Laboratory Technology),
University of Buea, Cameroon
Advisor: Dr. Konje Christina |

Research and Professional Experience

-
- | | |
|--------------|--|
| 2018-Present | Postdoctoral Research Associate, University of Maryland, College Park
Supervisor: Prof. Dr. Maile Neel |
| 2018-Present | Adjunct Instructor, University of Maryland, College Park
ENTM747 <i>Pollinator Health</i> ; ENTM720 <i>Native, Invasive, and Exotic Species</i> |
| 2013-2017 | Graduate Student Researcher, Vrije Universiteit Brussel, Belgium
Supervisor: Prof. Dr. Ludwig Triest |
| 2013-2017 | Teaching Assistant, Vrije Universiteit Brussel, Belgium
Supervisor: Prof. Dr. Ludwig Triest |
| 2014-2016 | Fieldwork and field experiment coordinator, Mangroves in Cameroon |
| 2015-2016 | Educational Campaign and capacity building, rural mangrove communities |
| 2011-2011 | Latex Laboratory Technician, IRAD Cameroon – Ekona Station |
| 2009-2011 | Medical Laboratory Technician, South West Regional Hospital Annex, Buea
<i>Volunteer experience and Internships</i> |
| 2016-2018 | Research Coordinator: Mangrove Ecosystem Program, RCESD, Cameroon |
| 2012 | Ecology Intern, Vrije Universiteit Brussel, Belgium |
| 2009-2010 | Counselor, SW Regional Hospital Annex, Buea, Cameroon |

Relevant Professional skills

Nucleic acid extraction and purification; DNA cloning
 Polymerase Chain Reaction (PCR)
 Next Generation Sequencing (NGS) library preparation and sequencing
 Bioinformatics skills, bash/batch scripting and coding in R, for NGS data processing
 Project management and realization
 Field expedition coordination for sample collection and experimentation
 Data curation and analytical skills
 Team-based and independent research skills
 Teaching undergraduate and graduate levels courses and labs

Manuscript and grant writing

Scientific Contribution

Publications in Peer-Reviewed Journals

Triest L, Van der Stocken T, De Ryck D, Kochzius M, Lorent S, **Ngeve M**, Ratsimbazafy HA, Sierens T, van der Ven R, & Koedam N (2021). Expansion of the mangrove species *Rhizophora mucronata* in the Western Indian Ocean launched contrasting genetic patterns. *Scientific Reports*.

Ngeve MN, Koedam N, & Triest L (2020). Runaway fathers? Limited pollen dispersal and mating system in *Rhizophora racemosa* populations of a disturbed mangrove estuary. *Aquatic Botany*.

Ngeve MN, Van der Stocken T, Menemenlis D, Koedam N, & Triest L (2017). Hidden founders? Strong bottlenecks and fine-scale genetic structure in mangrove populations of the Cameroon Estuary complex. *Hydrobiologia*.

Ngeve MN, Van der Stocken T, Sierens T, Koedam N, & Triest L (2017). Bidirectional gene flow on a river mangrove landscape and between-catchment dispersal of *Rhizophora racemosa* (Rhizophoraceae). *Hydrobiologia*.

Ngeve MN, Van der Stocken T, Menemenlis D, Koedam N, & Triest L (2016). Contrasting effects of historical sea level rise and contemporary ocean currents on regional gene flow of *Rhizophora racemosa* in Eastern Atlantic mangroves. *Plos One*.

Ngeve MN, Leermakers M, Elskens M & Marc Kochzius (2015). Assessment of trace metal pollution in sediments and intertidal fauna at the coast of Cameroon. *Environ Monit Assess*.

Marsden BW, **Ngeve MN**, Neel MC (*submitted: PlosOne*). Assessing the potential for extrapolating restoration and management based on genetic diversity to ecologically similar but geographically isolated locations in the submersed aquatic plant *Vallisneria americana*.

Ngeve MN, Engelhardt KAM, Gray M, & Neel MC (*in prep*). Swimming against the tide: Patterns of Genetic connectivity and discontinuity among *Vallisneria americana* populations of a periodically disturbed Riverbed (pdf available upon request).

Ngeve MN, Engelhardt KAM, Gray M, & Neel MC (*in prep*). Calm after the storm? Similar patterns of Genetic variation in *Vallisneria americana* populations in the lower Hudson Estuary before and after Hurricane Irene and Tropical Storm Lee (pdf available upon request).

Ngeve MN, Koedam N, & Triest L (*in prep*). Astray and away from home: Could propagules washed ashore non-forested areas provide evidence of long-distance dispersal in *Rhizophora racemosa*? (pdf available upon request).

Oral and Poster presentations

Ngeve MN. Calm after the storm? Genetic variability in *Vallisneria americana* populations of the lower Hudson Estuary before and after 2011 Hurricane Irene and Tropical Storm Lee. ESA Annual Meeting (Online oral presentation). August 2nd - 6th, 2020.

Ngeve MN. Patterns and scales of mangrove genetic connectivity, Entomology Spring Semester Seminar Series, University of Maryland, College Park. February 8, 2019.

Ngeve MN, Van der Stocken T, Koedam N, & Triest L. Patterns of regional- and local- scale genetic connectivity in Eastern Atlantic mangroves. VLIZ Marine Science Day 2017, Brugge, Belgium. March 3, 2017. (Oral presentation, 5' pitch)

Tonné N, Van der Stocken T, van Zon A, De Ryck D, **Ngeve M**, Van Nederveelde F, Venterink HO, Dahdouh-Guebas F, Triest L., Koedam N. Coming of age - The mangrove propagule, parental investment and the dual functionality towards autonomy and establishment. European Conference of Tropical Ecology Brussels, Belgium. February 7, 2017. (Oral presentation).

Ngeve MN, Van der Stocken T, Koedam N, & Triest L. Hidden founders or high connectivity or both? Investigating the expansion pathway of mangroves along the Cameroonian coastline. European Conference of Tropical Ecology Brussels, Belgium. February 9, 2017. (Oral presentation).

Ngeve MN, Van der Stocken T, Menemenlis D, Koedam N, & Triest L. Contrasting effects of historical sea level rise and contemporary ocean currents on regional gene flow of *Rhizophora racemosa* in Eastern Atlantic mangroves. The Mangrove & Macrobenthos Meeting (MMM4), Florida, USA. July 18-22, 2016. (Poster presentation).

Ngeve MN, Sierens T, Koedam N, & Triest L. Bidirectional gene flow on a river mangrove landscape and between-catchment dispersal of *Rhizophora racemosa* (Rhizophoraceae). Book of abstracts – European conference of tropical ecology Göttingen, Germany. 23 February 2016 (Oral presentation).

Ngeve MN, Sierens T, Koedam N, & Triest L. Connected but not exactly one: The genetic hierarchy in mangroves of a river linear landscape in Cameroon is caused by hydrological factors. Book of abstracts PhD day – Doctoral School of Natural Sciences and (Bioscience) Engineering (NSE). Brussels, Belgium 22 May 2015. (Poster & pitch presentation).

Ngeve MN., Elskens, M., Leermakers, M., Kochzius, M. Influence of trace metal and organic pollution on the community structure of intertidal gastropods at the coast of Cameroon, in: Mees, J. et al. (Ed.) (2013). Book of abstracts – VLIZ Young Marine Scientists' Day. Brugge, Belgium, 15 February 2013. VLIZ Special Publication, 63: pp. 74. (Poster presentation).

Awards, Grants, and Fellowships

2019-2021	University of Maryland's President's Postdoctoral Fellowship Program Postdoctoral Fellowship (> \$115,000)
2013-2017	Vrije Universiteit Brussel-International Relations and Mobility Office Doctoral Fellowship (> €150,000)
2015	Rufford Foundation, United Kingdom First Small Grant (£5000)
2016	Rufford Foundation, United Kingdom Second Small Grant (£5000)
2011-2013	Vrije Universiteit Brussel-International Relations and Mobility Office Masters Scholarship (> €55, 000).
2007-2010	Cameroon Government Presidential Excellence Award University of Buea (~ \$300)

Language Proficiency

English	Full professional proficiency/mother tongue
French	Moderate proficiency (in training)
Dutch	Elementary proficiency (in training)
R	Elementary - intermediate programming

Teaching and Mentoring Experience

2020	Guest lecture, Roosevelt University – Genetics introductory class <i>Disturbance ecology through the lens of a population geneticists: basic concepts, relevance, and case-study</i>
2018-present	Adjunct (online) Lecturer, University of Maryland ENTM747: "Pollinator Health" ENTM 720: "Native, Invasive, and Exotic Species"
2013-2017	Laboratory Instructor, Vrije Universiteit Brussel, Belgium "Conservation Genetics" practical (masters and 3 rd bachelor levels)
2014-2016	Teaching assistant, Vrije Universiteit Brussel Molecular Ecology" 3 rd year bachelor class

- 2015-2016 Mentoring students' research projects
One Masters and four Bachelor students
- 2003-2015 Peer-Education, Buea, Cameroon
Education and mentoring of young girls and teen parents in rural areas
- Relevance of education
- Prevention of teenage pregnancies
- Prevention of sexually transmitted infections

Professional Service

Journal Reviews: *Marine Ecology Progress Series, Forests, Plant Ecology & Diversity, Environmental Monitoring Assessment.*

References

Dr. Maile Neel (Postdoc supervisor, Director of the Norton-Brown Herbarium, Professor)
University of Maryland College Park, Department of Plant Science and Landscape Architecture &
Department of Entomology, AGNR & CMNS
mneel@umd.edu | (301) 405 9780

Dr. Ludwig Triest (Ph.D. advisor, Professor)
Vrije Universiteit Brussel, Belgium, Department of Biology and Bioengineering Sciences
ludwig.triest@vub.be | +32-2-6293421

Dr. Nico Koedam (PhD co-advisor, Professor))
Vrije Universiteit Brussel, Belgium, Department of Biology and Bioengineering Sciences
nikoedam@vub.be | +32-2-6293413

Dr. Marcia Shofner (Director MPAE Program, Senior Lecturer)
University of Maryland College Park, Department of Entomology, CMNS
mshofner@umd.edu | (301) 405 3938

Dr. Emily Dangremond (Assistant Professor)
Roosevelt University, Department of Biological, Chemical and Physical Sciences
edangremond@roosevelt.edu | (847) 330 4519