

CURRICULUM VITAE

Name:	Michiel-Nell Jonker
Physical Address:	82 Gordon Oval, 5 th street, Bergbron, Gauteng, South Africa
Contact Numbers:	084 585 7479 (C) 011 753 2974 (H)
E-mail:	ecotone-sa@mweb.co.za

Education

MSc. Environmental Management (2009-current) University of Johannesburg

This is a lectured Masters degree focussing on the concepts and principles of environmental management. The MSc. includes three modules: (1) Environmental management, biosphere and the environment. (2) Environmental management skills and (3) A mini dissertation in related field works.

MSc. Aquatic Health (cum laude) (2007-2008) University of Johannesburg

This Masters study has an ecotoxicological basis. It deals with the effects of androgenic and estrogenic growth-promoting hormones, used in cattle feeding lots, on aquatic freshwater ecosystems. It aims to incorporate biomarkers in fish (metabolomics and cellular energy allocation) as well as studies of general water quality, sediment composition and invertebrate community structures.

BSc. Honours (cum laude) (Zoology) (2006) University of Johannesburg

Related course work: *Laboratory and field skills, Philosophy and research methodology, population genetics, project management, mammal diversity, eco-physiology, parasite ecology, ichthyology, research project, biological systems integrity, terrestrial ecology, nature conservation.*

Honours Project: Aquatic invertebrate differences in dams and pans (a preliminary study to create a sensitivity index for lentic systems).

BSc. Natural and Environmental Sciences (2003-2005) University of Johannesburg

. Majors: Geography and Zoology
. Minors: Environmental management, botany, chemistry, environmental chemistry, biogeochemistry, statistics, information science

Related course work: *Cartography, biogeography, soil science, climatology and geomorphology, economic and urban geography, GIS, Geography of Africa and South Africa, invertebrate and vertebrate diversity, parasitology, ecotoxicology, terrestrial ecology and limnology, animal physiology, economic and ethno-botany, plant diversity, plant-water relations, organic and physical chemistry.*

Work Experience

- Aquatic Consultant – Ekoinfo – Klipriviersberg Full Aquatic assessment (January. 2009)
- Aquatic Consultant – Ekoinfo – Lonmin Aquatic biodiversity assessment (January 2009).
- Aquatic Consultant – NSS– Optimum Coal Fish diversity assessment (March 2009)
- Aquatic Consultant –NSS – Chapudi proposed coal mine diversity assessment (March 2009).
- Aquatic Consultant – MSA – Aquatic scoping assessment for proposed mining development (March 2009).
- Aquatic Consultant – Lonmin- aquatic biodiversity assessment and action plan (January, 2009).
- Aquatic Consultant – SASOL – aquatic ecosystem impact assessment for proposed pipeline development (January 2009).
- Aquatic Consultant – Arcus Gibb - Aquatic biodiversity assessment for proposed coal mining development (December 2008).
- Aquatic Consultant – ESKOM - Biomonitoring for proposed railroad construction for Eskom (October 2008- current).
- Junior Scientist – Enviross cc - Aquatic macro-invertebrate biodiversity study for proposed feedlot Mpumalanga 2007. (November 2007)
- Junior Scientist – Enviross cc - Tshwane sewerage works bio-monitoring. (September 2007).
- Junior Scientist – Econ@uj - Ecological state of five estuaries in the Wild coast for proposed heavy mineral mining (October 2007).
- Aquatic Consultant – Ekoinfo - Aquatic ecological assessment for proposed golf course development in North West province for Sun City (August 2007).
- Junior Scientist – Enviross cc - Firgrove industrial development in Somerset West 2007 (July 2007) 2007.
- Junior Scientist – Enviross cc - Aquatic health determination and eco-classification for ANGLO coal (Mpumalanga) in 2007 (2007).
- Junior Scientist – Econ@uj - Aquatic health determination and eco-classification for TOTAL coal in 2006 (May 2006).
- Junior Scientist – Econ@uj - Aquatic health and fish diversity assessment at Klipplaat nature reserve, 2006 (September 2006).

- Technical Assistant - University of Johannesburg Zoology department - Aquatic health and biodiversity of the Crocodile West Marico and Magaliesburg system, 2007 (February 2007).
- Technical Assistant – Enviross cc - Owl surveys, 2007 (March 2007).
- Project Manager - University of Johannesburg Zoology department - Aquatic health and biodiversity of lake Chrissie in Mpumalanga, 2007 (April 2007)
- Technical Assistant - University of Johannesburg Zoology department - PhD study regarding effects of pesticides on the freshwater aquatic health in the Levubu River in Venda (Limpopo Province) (February 2008)
- Researcher - University of Johannesburg Zoology department - Presented poster at Zoological society South Africa (ZSSA) in July 2007: Abiotic factors influencing invertebrate community structures in pan and dams in the Mpumalanga highveld area (June 2007)

Workshop and courses

- Accredited practitioner of the SASS5 Macro-invertebrate Assessment Protocol (2007)
- License Holder of a Category “R” skippers licence (2008)
- Computer-literate (Microsoft Office, CANOCO, Primer, SPSS)
- Certificate Holder of an Advanced Driving Course in 4X4 training (2006).
- Attended the Department of Water Affairs and Forestry’s Wetland Delineation course (2008)

Societies

- Member of the Southern African Society of Aquatic Scientists (SASAqS) (Jan 2006).
- Member of the Zoological Society of Southern Africa (ZSSA) (Jan 2009).

Presentations

- July 2007: Zoological Society of Southern Africa Conference, Potchefstroom.
Presented at the 33rd Bi-annual Conference of the ZSSA .

Computer skills

- MS Project, MS Word, MS Excel, MS Power Point.
- Ecostatus Response (FRAI)
- PRIMER statistical suite
- Conoco statistical suite