Full Name, Title
David Pelster, Dr.

Motivation
My research focuses on the detailed understanding of nitrogen cycling (including greenhouse gas (GHG) exchange) in a variety of ecosystems such as forests, grasslands, cropping systems (both large and smallholder farms) and livestock systems. I focus primarily on understanding the processes involved in the movement of nitrogen into, within, and out of natural and agricultural systems and then work to link these processes to system level drivers. The purpose is to provide information for land managers on how to reduce nitrogen losses in order to improve efficiencies and therefore production while reducing detrimental environmental effects.

Short CV
Academic career

from April 2013 onwards | Scientist, Mazingira Centre, International Livestock Research Institute (ILRI), Nairobi, Kenya
2010 – 2013 | Postdoctoral Researcher, Agriculture and Agri-Food Canada, Ste-Foy, Québec, Canada.
2009 – 2010 | Postdoctoral Researcher, Faculty of Forestry, Lakehead University, Thunder Bay, Ontario, Canada
2005 – 2009 |Ph.D. candidate, Faculty of Forestry, Lakehead University, Thunder Bay, Ontario, Canada. Thesis: "Development of Key Components of a Nitrogen Budget for a Forested Watershed on the Canadian Boreal Plain."
9/1997 – 9/2000 | Undergraduate studies, University of Alberta, Edmonton, Alberta, Canada

Teaching

2007 - 2009 | Lecturer “Forest Watershed Management” in collaboration with Prof. Ellie Prepas at Lakehead University, Thunder Bay, Ontario, Canada.

Supervision

Yuhao Zhu ongoing (Ph.D. candidate since 05/2016)
Jesse Owino ongoing (Ph.D. candidate since 01/2015)
Ibrahim Wanyama ongoing (Ph.D. candidate since 10/2013)
David Musuya (M.Sc. thesis, finished 2016)
Betty Gisore (M.Sc. thesis, finished 2016)
Fredrick Wandera (M.Sc. thesis completed 2015)
Patrick Gauthier (B.Sc. thesis, finished May 2010)

Expertise
Nitrogen cycling in agricultural and forested systems, including gaseous and aqueous exchanges.

Publications
Google Scholar Citations
ResearchGate Profile
Researcher ID: K-6103-2012

Miscellaneous activities

Reviewer

Agriculture, Ecosystems and Environment; Biogeochemistry; Biology and Fertility of Soils; Canadian Journal of Soil Science; Journal of Environmental Quality; Plant and Soil; Science of the Total Environment,