

CURRICULUM VITAE: MESFIN WONDAFRASH GOSSA

PERSONAL DATA

Full name Mesfin Wondafrash Gossa
Gender Male
Date of birth 13 November 1978
Current position Postdoctoral Research Fellow
Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Crn. Lynnwood Road and University Road, Hatfield 0002, Pretoria, South Africa
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EDUCATION

2017 to date Post-doctoral Research Fellow, University of Pretoria, South Africa
Research project: Diversity and distribution of Eucalypt insect pests and their natural enemies in sub-Saharan Africa

2013-2016 Ph.D. University of Pretoria, South Africa
Entomology
Dissertation: Ecology and diversity of introduced Pissodes (Coleoptera: Curculionidae) in South Africa

2010-2012 MSc. Universiteit Gent, Belgium; Universität Bielefeld; Germany; Universidade de Évora, Portugal and Universidad de Jaén, Spain
European Master of Science in Nematology
Thesis: Effects of root feeding nematodes on shoot herbivorous insects (conducted at Radboud University Nijmegen, The Netherlands)

2005-2007 MSc. Addis Ababa University, Ethiopia
Insect Sciences
Thesis: Effects of neem extracts on the feeding, survival, longevity and fecundity of African bollworm, Helicoverpa armigera (Lepidoptera: Noctuidae)

1998-2002 BSc. Alemaya University, Ethiopia
Plant Sciences
Senior project: Diversity and spatial structure of home-garden plant species in Alemaya district, Ethiopia

TRAININGS AND WORKSHOPS ATTENDED

2017	Mass-rearing of Insects Workshop, Department of Conservation Ecology and Entomology, Stellenbosch University, South Africa
2015	Microsoft 2013 Advanced Editing Workshop, University of Pretoria, South Africa
2014	Advanced Phylogenetics Workshop, University of Pretoria, South Africa
2013	Introductory Microsatellite Workshop, University of Pretoria, South Africa
2009	Crop Growing and Cropping Systems Modelling Workshop, Haramaya University, Ethiopia
2008	SAS and GenStat Training, Haramaya University, Ethiopia
2006	Basic training on principles of biometrics and computer software and SAS computer program, Ethiopian Agricultural Research Organization (EARO), Ethiopia
2005	Biometrics in Agriculture, Ethiopian Biometrics Society and Addis Ababa University, Ethiopia
2003	SAS Software and Basic Biometrical Methods Workshop, Werer Agricultural Research Centre, Ethiopia

EMPLOYMENT HISTORY

2017 to date	Postdoctoral Research Fellow Dept. of Zoology and Entomology, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa
2008 to 2013	Lecturer and Researcher School of Plant Sciences, Haramaya University, Ethiopia
2007	Lecturer and Researcher Dept. of Plant Sciences, Arba Minch University, Ethiopia
2005-2007	Assistant Researcher Werer Agri. Research Centre, Ethiopian Agri. Research Organization (EARO), Ethiopia

- 2003-2005 Junior Researcher
Werer Agri. Research Centre, Ethiopian Agri. Research Organization (EARO), Ethiopia
- 2001 Intern
National Wheat Research Project, Kulumsa Agri. Research Centre, Ethiopia

RESEARCH

Peer-reviewed publications

[Please kindly be informed that I use my first and middle name (Mesfin Wondafrash) in all my publications]

Van Dam NM, **Wondafrash M**, Mathur V & Tytgat TO (in press) Differences in hormonal signaling triggered by two root-feeding nematode species result in contrasting effects on aphid population growth. *Frontiers in Ecology and Evolution*.

Wondafrash M, Slippers B, Garnas J & Hurley BP (2017). Parasitoid assemblage associated with a North American pine weevil in South Africa. *Agricultural and Forest Entomology*. Agricultural and Forest Entomology DOI: 10.1111/afe.12246

Wondafrash M, Slippers B, Garnas J, Roux G, Foit J, Langor DW & Hurley BP (2016) Identification and genetic diversity of two *Pissodes* spp. Germar (Coleoptera:Curculionidae) in their introduced range in the southern hemisphere. *Biological Invasions* 18: 2283-2297.

Abebe E, Mekete T, Seid A, Meressa BH, **Wondafrash M**, Addis T, Getaneh G & Abate BA (2015) Research on plant-parasitic and entomopathogenic nematodes in Ethiopia: a review of current state and future direction. *Nematology* 17: 741-759.

Wondafrash M, Van Dam NM & Tytgat TO (2013) Plant systemic induced responses mediate interactions between root parasitic nematodes and aboveground herbivorous insects. *Frontiers in Plant Science* 4: 1-15.

Wondafrash M, Getu E & Terefe G (2012a) Life-cycle parameters of African bollworm, *Helicoverpa armigera* (Hubner)(Lepidoptera: Noctuidae) affected by neem, *Azadirachta indica* (A. Juss) extracts. *Agricultural Science Research Journal* 2: 335-345.

Wondafrash M, Getu E & Terefe G (2012b) Neem, *Azadirachta indica* (A. Juss) Extracts Negatively Influenced Growth and Development of African Bollworm, *Helicoverpa armigera*(Hubner)(Lepidoptera: Noctuidae). *Academic Journal of Entomology* 5: 22-27.

Wondafrash M, Getu E & Terefe G (2012c) Survival and Feeding of African Bollworm, *Helicoverpa armigera*(Hubner)(Lepidoptera: Noctuidae) Affected by Neem, *Azadirachta indica*(A. Juss) Extracts. World Journal of Agricultural Sciences 8: 280-285.

Presentations at conferences/meetings

Wondafrash M, Slippers B, Garnas J & Hurley BP (2017) Novel natural enemy encounters of an invasive forest insect pest. The 2017 Combined Congress of the Entomological Society of Southern Africa and the Zoological Society of Southern Africa, 03-07 July, Pretoria, South Africa (Oral presentation)

Wondafrash M, Slippers B, Garnas J & Hurley BP (2016) Interactions between two invasive insect species co-occurring on non-native pine trees. XXV International Congress of Entomology, 25-30 September, Orlando, USA (Oral presentation)

Wondafrash M, Slippers B, Garnas J & Hurley BP (2016) Ecology and diversity of introduced *Pissodes* (Coleoptera, Curculionidae) in South Africa. The 27th Annual Meeting of the Tree Protection Co-operative Programme (TPCP) and the DST-NRF Centre of Excellence in Tree Health Biotechnology (CTHB). The University of Pretoria, 16-18 May, Pretoria, South Africa (Oral presentation)

Wondafrash M, Garnas J, Slippers B & Hurley BP (2015) The deodar weevil, *Pissodes nemorensis* Germar, in South Africa: Identity and diversity. The 19th Congress of the Entomological Society of Southern Africa and the 37th Congress of the Zoological Society of Southern Africa, 12-17 July, Grahamstown, South Africa (Oral presentation)

Wondafrash M, Slippers B, Garnas J & Hurley BP (2014) The pine weevil in South Africa: Identity and diversity. The 25th Annual Meeting of the Tree Protection Co-operative Programme (TPCP) and the DST-NRF Centre of Excellence in Tree Health Biotechnology (CTHB). The University of Pretoria, 12-14 May, Pretoria, South Africa (Oral presentation)

Hurley BP, **Wondafrash M**, Garnas J & Slippers B (2014) The genetic diversity of the deodar weevil, *Pissodes nemorensis* Germar (Coleoptera: Curculionidae) in its introduced range in South Africa. International Union of Forest Research Organizations (IUFRO), 5-11 October, Salt Lake City, UT, USA. (Poster presentation)

Rasulova MF, **Wondafrash M**, Braeckman BP, Moens T & de Goede RGM (2012) Can nematode community analysis help students to understand the concept of bioindicators using a short-term experiment? The 2nd International Symposium on Nematodes as Environmental Bioindicators, 5-6 July, Ghent, Belgium (Poster presentation)

Technical reports

- 2005 Terminal Report, Entomology Research Division, Werer Agricultural Research Centre, Ethiopia
- 2004/2005 Progress Report, Entomology Research Division, Werer Agricultural Research Centre, Ethiopia

Conferences and scientific meetings attended

- 2012 5th Ecogenomics day of the Netherlands, Ecogenomics Research Organization (NERO), NIOO-KNAW, Wageningen, The Netherlands
- 2012 NWO-ALW meeting of Experimental Plant Sciences, Lunteren, The Netherlands
- 2012 63rd International Symposium of Crop Protection, Ghent, Belgium
- 2011 64th International Symposium of Crop Protection, Ghent, Belgium

TEACHING

Courses presented (Postgraduate level)

- 2012 Agricultural Nematology, Haramaya University, Ethiopia

Courses presented (Undergraduate level)

- 2009-2010 Agrometeorology, Haramaya University, Ethiopia
- 2009-2010 Applied Climatology, Haramaya University, Ethiopia
- 2009 Weeds and their Management, Harar Agro-technical College, Ethiopia
- 2008-2010 Management of Crop Pests and Diseases of Economic Importance, Haramaya University, Ethiopia
- 2007 General Entomology, Arba Minch University, Ethiopia
- 2007 Applied Entomology, Arba Minch University, Ethiopia

Student supervision/mentorship

- 2008-2012 Supervised 19 Senior Seminar and 18 Practical Attachment projects of undergraduate students, Haramaya University, Ethiopia

Curriculum Vitae-Mesfin Wondafrash Gossa

2015 Supervised 1 mentorship project of an undergraduate student, University of Pretoria, South Africa

PROFESSIONAL SERVICES

2015 Assisted with practical sessions on a “Workshop on the biological control of Eucalypt insect pests”, organized by the Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa

2010 Delivered training on “Botanical Insecticides” and “Methods of Insect Rearing” to crop protection practitioners, organized by Haramaya University, Ethiopia

2009 Trained ground growers how to identify and manage insect pests of groundnut, Babile, Ethiopia

2005 Trained junior researchers on “Identification of major insect pests of cotton, sesame and groundnut and their management”, organized by Tigray Region Agricultural Research Institute, Ethiopia

VISITS TO UNIVERSITIES AND RESEARCH INSTITUTES

2012 Department of Ecogenomics, Radboud University Nijmegen, Nijmegen, The Netherlands

2011 E-nema Biocontrol Company, Kiel, Germany

2011 Department of Biotechnology and Biological Control, Christian-Albrechts-Universität zu Kiel, Kiel, Germany

2011 Julius Kuhn Institute, Institute for Epidemiology and Pathogen Diagnostics, Munster, Germany

2011 Institute of Crop Science and Resource Protection, Bonn University, Bonn, Germany

2011 Nematology Laboratory, Wageningen University, Wageningen, The Netherlands

2011 Applied Plant Research, Wageningen UR, Lelystad, The Netherlands

2011 Plant Research International, Wageningen UR, Wageningen, The Netherlands

2011 Koppert Biological System, Berkel en Rodenrijs, The Netherlands

MEMBERSHIP IN PROFESIONAL SOCIETIES

2017 to date Entomological Society of Southern Africa

2017 to date British Ecological Society

2004 - 2012 Plant Protection Society of Ethiopia

PARTICIPATION IN COMMITTEES AND SOCIAL CLUBS

2016 Member of Social Club, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa

2009 Member of Curriculum Review and Development Committee, School of Plant Sciences, Haramaya University, Ethiopia

2005 Member of Staff Recruitment Committee, Werer Agricultural Research Center, Ethiopia

2005 Member of Farm Planning Committee, Werer Agricultural Research Center, Ethiopia

2003-2005 Member of Publication Committee, Werer Agricultural Research Centre, Ethiopia

LEADERSHIP AND ADMINISTRATIVE CONTRIBUTIONS

2017 Laboratory Manager, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa

2009 - 2010 Deputy Coordinator, Summer In-service Program, Haramaya University, Ethiopia

2008 - 2009 Academic Coordinator, School of Plant Science, Haramaya University, Ethiopia

2004 - 2005 Head, Entomology Research Division, Werer Agricultural Research Center, Ethiopia

AWARDS, GRANTS AND HONORS

2017 - 2018	University of Pretoria, Postdoctoral Research Fellowship Award
2014 - 2015	National Research Foundation (South Africa), Innovation Doctoral Scholarship Award
2013	University of Pretoria, Postgraduate Bursary Award
2010 - 2012	European Union, Education and Culture Director General Scholarship Award
2012	Universiteit Gent dean's list, Highest Distinction (MSc. Nematology)
2007	Addis Ababa University dean's list, Highest Distinction (MSc. Insect Sciences)
2002	Alemaya University dean's list, Distinction (BSc. Plant Sciences)

REFERENCES

1. Prof. Brett Hurley, Senior Lecturer, Dept. of Zoology and Entomology, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
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Email: Brett.Hurley@fabi.up.ac.za, Tel: +27 (12) 420-3939/3939, Fax: +27 (12) 420-3960
2. Prof. Bernard Slippers, Dept. of Genetics, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
Ph.D. co-supervisor
Email: Bernard.Slippers@fabi.up.ac.za, Tel: +27(12)420-3939/3939, Fax: +27(12)420-3960
3. Prof. Emanu Getu Degaga, Coordinator Insect Sciences Stream, Dept. of Biology, Addis Ababa University, Ethiopia
MSc. supervisor
Email: egetudegaga@yahoo.com, Mobile: + 251 (911) 01 91 66, Fax:

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