

Curriculum Vitae

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LISA ANN ROTHMANN

Lecturer : Plant Pathology
Plant Sciences, University of the Free State



Personal Details

Date of Birth 22/04/1990
Twitter @LandbouLisa

Short Statement

My research, in the field of plant disease epidemiology, propels me to ask questions and challenge my thinking regarding how we find solutions for diseases. I am passionate about our producers and strive to generate research which can be applied and communicated to the producers. I hope to provide farmers with research which they can integrate into their disease management programmes.

My teaching philosophy is to train the mind to discern truth and apply what is learned in the classroom in everyday realities. I have had the opportunity to work with students, not to teach them but assist them in their learning. I like to foster dynamic yet balanced individuals, who not only contribute to their academics but also to their role in society's success. I encourage dialogue in the classroom and create a space where students can develop their own critical thinking, with integrity.

I have been fortunate enough to take part in many local and international opportunities, shaping the way I think and react. A core principle to learning is understanding our own ability to use the capacity of our minds to the fullest. I am currently participating as a Social Media and Blog Editor at Open Plant Pathology, and advocating the use of open and reproducible science in the plant pathology community, which is a new focus area for me. This provides me with new learning opportunities beyond my academic and teaching responsibilities. I am dedicated and passionate about my discipline and thus, I am constantly learning and applying new data science techniques to my teaching and research outputs.

I believe in leading by example and have always taken my role as an active citizen seriously. I relish the opportunities to constantly learn through participation (and leadership opportunities) in academic and extramural events. Hard work is the key to success and discipline goes hand in hand with this. I believe this is reflected in my career to date.

Kind Regards,
Lisa Ann Rothmann.

Academics

Tertiary Education

- 2020 *Philosophiae Doctor*: Thesis in Plant Pathology (currently registered)
University of the Free State
- 2015 *Magister Scientiae Agriculturae*: Dissertation in Plant Pathology
University of the Free State
“Modelling the colonisation of sorghum grain by the *Fusarium graminearum* species complex and concomitant mycotoxin production”
- 2013 *Baccalaureus Scientiae Agriculturae Honores* (Plant Pathology)
University of the Free State
- 2012 *Baccalaureus Scientiae Agriculturae* (Plant Pathology and Agrometeorology)

Secondary Education

- 2007 Matriculated
St. John's Diocesan School for Girls

Employment

Teaching

- 2020 - 2018 Lecturer
Plant Pathology
Introductory Plant Pathology (PPLG2624)
Epidemiology (PPLG4834)
- 2017 - 2013 Practical Assistant
Plant Pathology
Introductory Plant Pathology (PPG214)
Bacteriology & Virology (PPG424)
Plant-Parasite Interactions (PPG444)
Epidemiology (PPG434)
- 2011 Practical Assistant
Agrometeorology (LWR214)

Research

- 2017 - 2014 Research Assistant
Plant Pathology: Professor N.W. McLaren
- 2013 - 2012 Laboratory Assistant
Plant Pathology: Professor N.W. McLaren
- 2011 Laboratory Assistant
Plant Pathology: Professor W.J. Swart

Invited Scientific Meetings

- 2017 27th Soilborne Plant Disease Symposium
Stellenbosch, Western Cape, South Africa
“*Sclerotinia sclerotiorum* disease epidemiology: a South African approach”
Supervisor: NW McLaren
date
- 2014 25th South African National Seed Organisation Congress
Pretoria, Gauteng, South Africa
“Growing the Youth: Seeds of our future.”
2014/05/19 - 2014/05/21

National Scientific Meetings (presented, oral)

- 2019 3rd New Voices Symposium
Hosted by Cereal Science and Technology - South Africa
“A quantitative summary of a 10-year survey of white mold prevalence in South Africa.”
Supervisors: EM del Ponte
10/09/2019 - 11/09/2019
Winner: PhD Category, John Taylor Floating Trophy
- 2019 51st Southern African Society of Plant Pathology Congress
Mykonos, Western Cape
“A Community of Practice: Modelled on Sclerotinia Stem Rot of Soybean.”
Supervisor: NW McLaren
20/01/2019 - 24/01/2019
- 2013 48th Southern African Society for Plant Pathology Congress
Bela-Bela, Limpopo
“Effect of cultivar and environment on grain mold severity and mycotoxin accumulation in sorghum.”
Supervisor: NW McLaren
20/01/2013 - 24/01/2013
- 2011 21st Soilborne Plant Disease Symposium
Stellenbosch, Western Cape, South Africa
“Prediction modelling of diseases caused by *Sclerotinia* spp. ”
Supervisor: NW McLaren
date

International Scientific Meetings (selected, **bold** = primary author)

Presented, Oral

- 2019 GFIP - Seminar
Universidade Federal de Viçosa, Minas Gerais, Brazil
“South Africa to Brazil: Learning a new Language”
4/07/2019

Presented, Poster (selected)

- 2018 **Rothmann, L.A.**, Craven, M McLaren, N. W. 9-12 April 2018. Developing epidemiologically based intervention thresholds for sorghum leaf diseases in South Africa, Sorghum in the 21st Century, Global Sorghum Conference, Cape Town, South Africa.
- 2018 **Rothmann, L.A.** & McLaren, N.W. 2018, 29 July - 3 August 2018. Relationships between weather, colonization and mycotoxins produced by *Fusarium graminearum* species complex on sorghum grain. International Congress for Plant Pathology, Boston, Massachusetts, United States of America.
- 2017 **Rothmann, L.A.** & McLaren, N.W. 2017, 18-20 January. Epidemiology of Sclerotinia Stem Rot of Soybean: A South African Perspective. National Sclerotinia Initiative, Minnesota, United States of America.
- 2013 **McLaren, N. W.**, van Rooyen, D. & Coetzee, L. A. 27 – 31 May 2013. Variation in sorghum grain mold and mycotoxins due to host genotype and environment. Proceedings of the ISM-Mycored Internationals Conference, Global Mycotoxin Reduction Strategies. Martina Franca, Apulia, Italy. (Invited: Poster & Presentation)

Academic Competitions

- 2019 New Voices Symposium
PhD Category Winner
John Taylor Floating Trophy
- 2018 FlashFacts Competition
University of the Free State, Faculty of Natural and Agricultural Sciences
Student: Third Place
- 2017 Three Minute Thesis
University of the Free State
PhD: First Place

Mentoring & Supervising

- 2020- 2018 Marlese Meiring, *PhD* Plant Pathology
Co-Supervisor
“*Sclerotinia sclerotiorum* disease potential and management responses in soybean and sunflower.
- 2020- 2018 Thabiso Masisi, *MSc. Agric.* Plant Pathology
Supervisor
“A systems analysis of sorghum foliar diseases and grain mold”
- 2019- 2017 Marlese Meiring, *MSc.* Plant Health Ecology (with distinction)
Co-Supervisor
“Inoculation techniques and evaluation methodologies for *Sclerotinia sclerotiorum* head and stem rot in sunflower and soybean”

Peer-Reviewed Publications

- 2020 Toth, B., Boka, K., Rothmann, L.A., Moloi, M.J. 2020. The effect of four industrial by-products on the photo-synthetic pigments, dry weight and ultrastructure of *Zea mays* L. *Biology Bulletin*.
- 2019 Boshoff, W.H., Prins, R., de Klerk, C., Krattinger, S.G., Bender, C.M., Maree, G.J., Rothmann, L. and Pretorius, Z.A., 2019. Point Inoculation Method for Measuring Adult Plant Response of Wheat to Stripe Rust Infection. *Plant disease*, pp.PDIS-08.
- 2019 Yekelo, N., Rothmann, L., Bender, C.M., Pretorius, Z.A. and Boshoff, W.H.P., 2019. Response of an International Triticale Collection to *Puccinia triticina* and *Puccinia recondita sensu stricto* and Assessment of Temperature Sensitivity in Leaf Rust Isolates. *Cereal Research Communications*, 47(3), pp.496-505.
- 2018 Rothmann, L.A. & McLaren, N.W. 2017. *Sclerotinia sclerotiorum* disease prediction: a review and potential applications in South Africa. *South African Journal of Science*.

Published Materials (selected)

- 2019 Rothmann, L.A. Meiring, MC. & McLaren, N.W. The development of novel risk reduction strategies for *Sclerotinia* head and stem rot of sunflower and soya beans. *OilSeed Focus Magazine*, Vol 5 No 2.
- 2019 McLaren, L.A. & Rothmann, L.A. Management of Sorghum Diseases. *SA Grain Magazine*, March 2019.
- 2019 Rothmann, L.A. Grounded: Soil Talks. *Dry Bean Organisation Magazine*. Summer 2019: Edition 58.
- 2018 Rothmann, L.A. Weather Water Matters? *Dry Bean Organisation Magazine*. Winter 2018: Edition 57.
- 2017 Rothmann, L.A. Biodiversity, the Spice of Life. *Dry Bean Organisation Magazine*. Summer 2017: Edition 55.
- 2017 Rothmann, L.A. More than the Eye Sees. *Dry Bean Organisation Magazine*. Winter 2017: Edition 54.
- 2016 Coetzee L.A. Women in Agriculture, *Dry Bean Organization Magazine*. Winter 2016: Edition 52.
- 2015 Coetzee, L.A. Forecasting, the Future, *Dry Bean Organization Magazine*. Summer 2015: Edition 51. Accessed from: https://issuu.com/chillidesign/docs/sa_droebone_somer_2015_e
- 2015 Coetzee, L.A. Let's Talk Trash, *Dry Bean Organization Magazine*. Winter 2015: Edition 50
- 2014 Coetzee, L.A. Youth in Agriculture, *Dry Bean Organization Magazine*. Summer 2014: Edition 49.

Organisation Membership

2020- 2019 Open Plant Pathology

Social Media and Blog Editor

- 2020 - 2019 Cereal Science and Technology - South Africa
- 2020- 2017 South Africa Sclerotinia Research Network
Administrator, Principal Investigator
- 2020 - 2017 Southern African Society of Plant Pathology
- 2020 - 2017 American Phytopathology Society
- 2013 - 2012 Southern African Society of Plant Pathology
American Phytopathology Society

Meeting & Workshop Organisation

- 2020 - 2017 South African Sclerotinia Research Network
Administrator, website development, marketing, meeting coordination
www.sclerotinia.co.za
- 2017 - 2018 Global Sorghum Conference, Cape Town
Local Organizing Committee: Student Committee Chairperson

Bursary Awards

- 2019 National Research Foundation: Knowledge Interchange & Collaboration
Travel Grant: Universidade Federal de Viçosa, Minas Gerais, Brazil
- 2018 American Phytopathology Society
Books of the World Awardee
- 2017 - 2015 National Research Foundation: Scarce Skills
- 2014 - 2012 Sorghum Trust
Howard G. Buffett Foundation through the Norman E. Borlaug Institute for
International Agriculture of Texas A&M AgriLife

Laboratory Workshops & Visits

International

- 2019 Professor Emerson Del Ponte
Fitopatologia, Epidemiologia
Universidade Federal de Viçosa, Minas Gerais, Brazil
2019/06/15 - 2019/08/03
- 2017 Dr. Gary Odvody & Dr. Gary Peterson
Texas A & M University & AgriLife; Corpus Christi & Lubbock, Texas
2017/01/21 - 2017/01/27

National

- 2016 International Fusarium Laboratory Workshop
University of Pretoria, Gauteng, South Africa

Leadership Conferences

- 2015 International Student Festival in Trondheim (ISFiT): Corruption Dialogue Participant: National Conflict
Roros & Trondheim, Norway
24/01/2015 - 15/02/2015
- 2014 Brightest Young Minds Summit
Johannesburg, South Africa
29/08/2014 - 3/09/2014
- 2013 Youth Ag Summit
Calgary, Canada
19/08/2013 - 25/08/2013

Farmer's Days (selected)

- 2020- 2019 AgriSeed Insette Dag
Delmas, Mpumalanga
11/03/2019 - 12/13/2019
- 2019 South African Sclerotinia Research Network: Information Days
Sonop, Petrus Steyn, Marquard
- 2018 Bayer CropScience: *Sclerotinia sclerotiorum* Information days
Bethlehem, Arlington, Clocolan
October-November

Media Related Outputs (selected)

- 2017 University of the Free State: Website, Leonie Bolleurs
"Researcher works on finding practical solutions to plant diseases for farmers"
3/10/2017
- 2014 Landbou Weekblad, Leanne George
"Kinders moet weet waar hul kos vandaan kom"
6/6/2014
- 2014 Farmers Weekly, Annelie Coleman
"Where have all the young people gone?"
13/06/2014
- 2014 Landbou Weekblad, Liza Bohlmann
"Die Landbou het die jeug nodig. Landbou Weekblad."
20/06/2014