*Curriculum vitae*

**B. EDUCATION**

**University of Stellenbosch**

2002-2005 PhD. (Agric) Horticultural Science: “Pre-harvest determination of bitter pit potential in apples”

**University of Pretoria**

1995-1997 MSc (Agric): “Factors influencing fruit size of ‘Royal Gala’ apples.”

**University of Free State**

1989-1991 BSc. Hons (Agric) Horticulture

**University of Stellenbosch**

1984-1987 BSc. (Agric) Horticulture and Plant breeding.

**C. CURRENT POSITION**

2005-2014 Sr Researcher/Lecturer in Horticultural Science, Department of Horticultural Science, University of Stellenbosch, Seconded by HortgroScience

Lecturer: Applied Physiology for 4th year students and the final year practical program resolves under me as lecturer, as well as the orchard management project of the 4th year horticultural students. During 2014 I also supervised most of the practicals for Horticulture 314 (Prof Theron). I am also involved in the post graduate program of the department and supervise and co-supervise students.

Research: I am responsible for research projects on fruit quality for the Deciduous Fruit Industry that encompasses a wide range of topics including soil fertility, climate effects, root growth dynamics; fruit quality and foliar applications of nutrients. This includes the design of field experiments, writing of reports and communication with technical advisors, as well as presentations to technical groups and Chemical companies. In this regard I also work with students, technical assistants and peers.

Food Security: Centre of Excellence in Food Systems Change - Production Program. As from 2014 I am coordinator for Program 2 for this initiative and have also submitted a proposal for research in collaboration with peers around the country.

2002-2004 Researcher in Horticultural Science, Department of Horticultural Science, University of Stellenbosch, Seconded by Deciduous Fruit Producers’ Association: Research

***Other Academic responsibilities***

2007-2009Served on the Marketing committee of the Dept. of Horticultural Science

2014 Serve on the Academic and Financial committees of the Dept. of Horticultural Science

2011-2014 Served on peer review panel of WRC (K5/1770//04)

2012-2014 External examiner for HSC 789 at the Faculty of Natural and Agricultural sciences, UP

2010-2012 Served on the SASHS committee

2008-2014 Served as member of steering committee WRC project on Water use of fruit trees.

***Other industry responsibilities***

2008-2014 Chair of Pome Fruit Technical Forum

2011-2014 Member of work groups at HortgroScience: Effective irrigation and nutrition; Growing Season Climate; Soil Health

Served as acting chair during various occasions when Prof Theron and Dr Hoffman were unavailable during the last few years.

***Memberships***

ISHS, SASHS, ASHS (2009/10)

***Refereeing of research proposals***

Canada: Agriculture and Agri-Food Canada (AAFC) 2013.

***Refereeing of journal papers***

Journal of Science of Food and Agriculture

HortTechnology

African Journal of Biotechnology

South African Journal of Botany

Food Science and Technology International

***Refereeing of conference proceedings***

ActaHorticulturae 671, 9th International Pear Symposium

ActaHorticulturae (in press) 10th International Symposium on Orchard Systems

ActaHorticulturae (in press) 7th International Symposium of Fruit Nutrition

***Examination of theses***

Masters: 7

PhD: 1

**POST GRADUATE INVOLVEMENT AT STELLENBOSCH UNIVERSITY**:

***Master students: supervisor***

2009-2011:

*Patricia Carmichael*: Predicting optimum harvest time and eating quality of Forelle pears.

Graduation March 2011.

*Willie Kotze*: Effect of mulches on fruit quality of Cripps’ Pink apples.

Graduation Dec 2012.

*Robert Wilsdorf*: Seasonal changes in concentration and distribution of Ca2+ in apple fruit after soil and foliar calcium applications.

Graduation Dec 2011.

2011-2013: *Prins van der Merwe:* Quantifying the effect of inorganic and organic mulches of 2 soil types on nutrient uptake and fruit quality of ‘Cripps’ Pink’ apples. Graduation Dec 2012.

*Allison Nicholson:* An investigation into factors in the root environment that affect growth and development of roots and the influence of ground covers on these factors. Graduation Dec 2012.

*David Hendricks:* Determining the effect of applied salicylic acid and silica on systemic acquired resistance on fruit growth and quality. Graduation Dec 2012.

2013-current: *Derek van Zyl:* Apple root growth dynamics and fertilizer uptake.

2014-current: *Sakeus Kafula*: The effects of different waste management strategies utilising dairy manure,

food and fruit waste on the biogas production as a sustainable source of renewable energy.

***Master students: Co-supervisor***

2006-2008: *C.J. Kapp*: Manipulation of the chilling requirement of sweet cherry trees.

2005-2007: *J. Joubert*: The effect of different water and nutrient management strategies on the Ca content of apple fruit.

2009-2012: *B. Makeredza:* Mulching decreases while moisture stress increases sunburn development in apples.

2012 – current: *L Butler*: The relationship between ‘Cripps Pink’ internal browning and various  environmental factors in different growing areas after extended CA storage and the evaluation of the NIR techniques for detecting internal browning.

2013 – current: *M Frazenburg*: Determining the time of formation of primary xylem and the effect thereof on Ca distribution in the dormant reproductive apple bud.

2013 – current: *I Kritzinger*: A study of broken stones in plums.

2013 – current*: I Zurayk*: Fertilization management of crops under NaCl fertigation induced salinity stress.

***PhD: Co-promoter:***

2012 – current: *B Makeredza :* A study of photo-thermal and pitburn damage in Japanese plums

***PhD: Panel***

2012 – current: *G Mpambi:* Tree water relations and sunburn in pome fruit

***Post Doc:***

2011-2012: *Dr S Turketti*

***Undergraduate level***

2012- 2014Co-ordinate practical programme for 4th year students

**D. PREVIOUS POSITIONS**

2000-2002 Researcher: Hortec (Pty) Ltd– pome fruit quality and climate

1995-1999 Researcher: ARC Infruitec - pome fruit quality and climate

1988-1994Various technical positions in fruit industry & private sector

Technical adviser – Geelbeksvlei, Elgin

Laboratory Manager – Green Life Laboratories, Landsdown, Cape Town

Technical position: research – SAAPPA, Elgin

General Manager – Topfruit (Pty) Ltd, Paarl