

**Curriculum Vita**  
**Jan A.N. van Aardt**

Email: [jaardt@vt.edu](mailto:jaardt@vt.edu)

**Current Address:**

464 Charles street  
Blacksburg  
VA 24060

Tel.: (540) 961 6799

**University Address:**

321 Cheatham Hall  
Department of Forestry  
Virginia Tech  
Blacksburg  
VA 24060

Tel.: (540) 231 6958

**Education**

M.S. Forestry. Expected May 2000. Major: Forestry, utilizing remote sensing for forest management – Virginia Polytechnic Institute and State University, Virginia, USA (current GPA = 3.9 / 4.0)

Honors degree Forestry (*cum laude*), January 1998. Major: Forestry (with GIS and Remote Sensing)- University of Stellenbosch, Stellenbosch, South Africa

B.Sc. Forestry (*cum laude*), December 1996. Major: Forestry – University of Stellenbosch, Stellenbosch, South Africa

**Master's Thesis**

Spectral Separability among Six Southern Tree Species:

(i) Assess group and species level separability of field canopy spectra derived from the following groups and species - Pines - Loblolly (*Pinus taeda*), Virginia (*Pinus virginiana*) and shortleaf (*Pinus echinata*) pine  
Hardwoods - Scarlet oak (*Quercus coccinea*), white oak (*Quercus alba*)  
and yellow poplar (*Liriodendron tulipifera*)

(ii) Identify the radiometric wavelength regions that define the inherent spectral separability between groups and species

Advisor: Dr. Randolph H. Wynne

## **Teaching Experience and Interest**

- Teaching assistant in undergraduate remote sensing and GIS courses

Graduate Teaching Assistant, Forestry Faculty, Virginia Polytechnic Institute and State University, Virginia ,USA, Fall 1999 (Forest Photogrammetry)

Graduate Teaching Assistant, Forestry Faculty, University of Stellenbosch, South Africa, January 1997 – June 1997 (Forest Mensuration), January 1998 – June 1998 (Forest Management and Forest Mensuration; Introduction to Spreadsheets and General Computing)

Co-presenter: GIS in Forestry Workshop, 1998. Forestry Faculty, University of Stellenbosch, South Africa.

## **Research Interests**

- Remote sensing as general forest management tool
- Forest inventory using remote sensing images and techniques: Spectral separability of tree species
- Investigating forest canopy chemistry using remote sensing

## **Professional Experience**

Project Assistant – Forest Management Unit, University of Stellenbosch, South Africa, January 1998 – July 1998. (South African Developing Communities Project - SADC; in conjunction with Agricultural Economics; used GIS technology and remote sensing in furthering development in SADC region).

Student work, South African Forestry Company Limited (SAFCOL), South Africa, January 1996 (forest mensurational tasks and assisting).

## **Professional Training**

Hyperspectral Data Analysis and Image Processing Workshop. AIG (Analytical Imaging and Geophysics), Boulder, Colorado; July 6-9, 1999.

## **Abstracts**

J.A.N. van Aardt, Wynne R.H., 2000. Spectral Separability among Three Pine Species. ERIM 2<sup>nd</sup> International Conference on Geospatial Information in Agriculture and Forestry. Lake Buena Vista, Florida. January 10-12, 2000.

## **Presentations**

Poster presentation: J.A.N. van Aardt, Wynne R.H., 2000. Spectral Separability among Three Pine Species. ERIM 2<sup>nd</sup> International Conference on Geospatial Information in Agriculture and Forestry. Lake Buena Vista, Florida. January 10-12, 2000.

Paper presentation (scheduled for May 22-26, 2000): J.A.N. van Aardt, Wynne R.H., 2000. Spectral Differentiability among Six Southern Forestry Species. ASPRS 2000 Annual Conference. Washington D.C., May 22-26, 2000.

## **Honors/Affiliations**

Gamma Sigma Delta – Honorary Agricultural Society member (2000)

Received Virginia Tech Graduate Student Assembly Travel Grant for ERIM's 2<sup>nd</sup> International Conference on Geospatial Information in Agriculture and Forestry (Lake Buena Vista, Florida; January 10-12, 2000)

ASPRS Student member (1999 – 2000)

Received a two-year Fulbright Scholarship for studying towards a M.S. degree in the USA (1998)

Academic colors, University of Stellenbosch, South Africa (1996)

Schlich medal for best 4<sup>th</sup> year student, Forestry Faculty, University of Stellenbosch, South Africa (1996)

Wilgenhof Men's residence House Committee, University of Stellenbosch, South Africa (1995-1996)

Received Forest Owners Association bursary, South Africa (1993 – 1996)

## **References**

Dr. Randolph H. Wynne  
319 Cheatham Hall  
Virginia Polytechnic Institute and State University  
Blacksburg  
VA 24060  
Tel. (540) 231 7811  
Email: [wynne@vt.edu](mailto:wynne@vt.edu)

Dr. James B. Campbell Jr.  
115-A Major Williams Hall  
Virginia Polytechnic Institute and State University  
Blacksburg  
VA 24060  
Tel. (540) 231-5841  
Email: [jayhawk@vt.edu](mailto:jayhawk@vt.edu)

Dr. Richard G. Oderwald  
319 Cheatham Hall  
Virginia Polytechnic Institute and State University  
Blacksburg  
VA 24060  
Tel. (540) 231-5297  
Email: oderwald@vt.edu

Dr. Brian V. Bredenkamp  
Paul Sauer Building  
University of Stellenbosch  
Stellenbosch  
7600  
South Africa  
Tel. +27 21 808 3305  
Email: [bvb@maties.sun.ac.za](mailto:bvb@maties.sun.ac.za)

Dr. Jacobus M. Theron  
Paul Sauer Building  
University of Stellenbosch  
Stellenbosch  
7600  
South Africa  
Tel. +27 21 808 3305  
Email: [jmt@maties.sun.ac.za](mailto:jmt@maties.sun.ac.za)