

# Curriculum Vitae

## Ingrid Brandt

Full name	Ingrid Gis�lle Sieb�rger (nee Brandt)
Date of birth	Grahamstown, 20 August 1981
Marital status	Married
Citizenship	South African
Spoken languages	English and Afrikaans
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### Education

Tertiary education	Rhodes University (2000 - 2005, 2007 - ), Grahamstown
Secondary education	Victoria Girls' High School (1995 - 1999), Grahamstown
Primary education	Victoria Primary School (1991 - 1994), Grahamstown

### Academic Qualifications

Master of Science in Computer Science (with Distinction)	Thesis submitted in fulfillment of the requirements of the degree: "Models of Internet connectivity for secondary schools in the Grahamstown Circuit" Received NRF Grantholder Bursary in 2004 and 2005, and Ernst Ethel Erikson Trust Bursary in 2004 and 2005.
Bachelor of Science (Honours) in Computer Science	Awarded by Rhodes University in 2004. Thesis submitted in part fulfillment of the degree: "Computer Aided Education in South Africa."
Bachelor of Science	Awarded by Rhodes in 2003. Major Subjects: Computer Science and Physics and Electronics. Received a Merit Award Bursary for school results achieved in 2000 and the Physics Undergraduate Bursary in 2001.
Eastern Cape Senior Certificate	Completed in 1999 with A aggregate symbol. Subjects: English First Language, Afrikaans First Language, Mathematics, Physical Science, Biology, Accounting and Computer Science.

## Work Experience

Research Assistant	2006- , Centre of Excellence (CoE) in Distributed Multimedia. Responsible for continued research into the field of ICT in Education and support to local schools, as well as supervision of honours projects within the field of Wireless networking. Furthermore, administrative duties within the CoE, such as Asset management. Employer: Alfredo Terzoli, c/o Computer Science Department, Rhodes University, 6140.
Asset Manager	2005, Centre of Excellence (CoE) in Distributed Multimedia. Responsible for tracking and managing the distribution of CoE assets. Employer: Alfredo Terzoli, c/o Computer Science Department, Rhodes University, 6140.
Videoconferencing technician	2004 - 2005, Centre of Excellence (CoE) in Distributed Multimedia. Responsible for operation of the CoE's videoconferencing facilities, which includes preparing videoconferencing sessions, liaising with technicians or coordinators on the other side of the conference call and assisting and training participants. Employer: Alfredo Terzoli, c/o Computer Science Department, Rhodes University, 6140.
Waitress	2001 - 2004, Gino's Restaurant, Grahamstown, 6140. Employer: Gino's Restaurant, Grahamstown, 6140. Telephone: 046 622 7261

## Teaching Experience

Rhodes Education short course	2007-2008, Lectured basic Microsoft Power Point to in-service teachers, as a pre-requisite to taking the Advanced Certificate in Education ICT course.
BEd honours	2007, Lectured to the Bachelor of Education students on ICT strategies with the school environment
Supervision: Masters level	2008 - , Supervision of masters students within the Computer Science department at Rhodes University
Supervision: Honours level	2006 - , Supervision of honours students within the Computer Science department at Rhodes University
Undergraduate demonstrator	2002 - 2005, Demonstrated, assisted students and marked practicals in Computer Science 1 and 3 courses.

## Research Experience

Ph.D in Computer Science	2007 - , Research conducted in the field of ICT in Education, specifically focusing on ICT architectures that are cost-effective and pedagogically sound for South African schools.
CoE Research Assistant	2006 - , Research conducted in the fields of ICT in Education and Wireless networking. Research has resulted in some of the publications listed below.
Masters of Science	2004 - 2005, Research conducted in the field of ICT in Education specifically looking at Models of connecting previously disadvantaged schools to the Internet. Resulted in the publications listed below.
Bachelor of Science (Honours)	2003, Research conducted in the field of Computer aided Education technologies for a South African context. Results of this research were presented in a BSc(Hons) dissertation.

## Publication Record

2008	Slay, H., Siebörger, I., and Hodgkinson-Williams, C. (2008) "A feasibility study on the use of "smart" pens in teaching and learning environments in South African schools", <i>South African Computer Journal</i> , 40, p83 - 94
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Hodgkinson-Williams, C., Slay, H., and Siebörger, I. (2008) "Developing communities of practice within and outside higher education institutions", *British Journal of Education Technology*, 39(3), p433 - 442

Slay, H., Siebörger, I., and Hodgkinson-Williams, C. (2008) "Interactive Whiteboards: Real Beauty or just 'lipstick'", *Computers & Education*, 51(3), p1321 - 1341

Slay, H., Siebörger, I., and Hodgkinson-Williams, C. (2008) "The use of interactive whiteboards to support the creation, capture and sharing of knowledge in South African schools" *Learning to Live in the Knowledge Society*, 281, p19 - 26, IFIP WCC 2008, Milan, Italy, September 2008, ISBN 978-0-387-09728-2

Siebörger, I., Terzoli, A., and Hodgkinson-Williams, C. (2008) "The development of ICT networks for South African schools: Two pilot studies in disadvantaged areas" *Learning to Live in the Knowledge Society*, 281, p 167 - 170 , IFIP WCC 2008, Milan, Italy, September 2008, ISBN 978-0-387-09728-2

Siebörger, I., Slay, H., and Hodgkinson-Williams, C. (2008) "Teachers and learners perceptions of using the eBeam interactive whiteboard: A case study of three schools in the Eastern Cape of South Africa" Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE), Reclaiming knowledge in mathematics, science and technology education, Grahamstown, South Africa

Wells, D., Siebörger, I., and Irwin, B. (2008) "Location and mapping of 2.4 GHz RF transmitters" 7th annual Information Security for South Africa (ISSA 2008) Innovative minds conference, Johannesburg, South Africa, July 2008

Wells, D., Siebörger, I., and Irwin, B. (2008) "Mapping the location of 2.4 GHz transmitters to achieve optimal usage of an IEEE 802.11 network" The annual South African Telecommunication Networks and Applications Conference (SATNAC 2008), Wild Coast Sun, South Africa, September 2008

2007

Hodgkinson-Williams, C., Siebörger, I., and Terzoli, A. (2007) "Enabling and constraining ICT practice in secondary schools: case studies in South Africa" *International Journal of Knowledge and Learning (IJKL)*, 3(2/3), p171 - 190.

Slay, H., Siebörger, I., and Hodgkinson-Williams, C. (2007) "An investigation into the use of Interactive Whiteboards in South African schools". Presented at IADIS International Conference on Interfaces and Human Computer Interaction (IHCI) Lisbon, Portugal.

Siebörger, I. and Terzoli, A. (2007) "Field testing the Alvarion BreezeMAX as a last mile access technology". Presented at the 10th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC), Sugar Beach, Mauritius.

Brandt, I., Terzoli, A., and Hodgkinson-Williams, C. (2007) "Wi-Fi as a last mile access technology and the Tragedy of the Commons". Published in *Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications*, Springer. ISBN: 978-1-4020-6265-0

2006

Brandt, I., Terzoli, A., and Hodgkinson-Williams, C. (2006) "Wi-Fi as a last mile access technology and the Tragedy of the Commons". Presented at International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE), online.

Hodgkinson-Williams, C., and Brandt, I. (2006) "Collaborative learning: Building a virtual community of practice to enable ICT take-up in schools in the Grahamstown District", to be presented at Emerge 2006, online.

Slay, H., Hodgkinson-Williams, C., and Brandt, I. (2006) eBeam User Study Preliminary Report Compiled for Eastern Cape Department of Education, Rhodes University.

- Brandt, I., and Terzoli, A. (2006) Submission to the Independent Communications Authority of South Africa (ICASA) regarding the use of the band 5725 - 5875 MHz for broadband fixed wireless access.
- 2005 Brandt, I., Terzoli, A., and Hodgkinson-Williams, C. (2005) "Wireless communication for previously disadvantaged Secondary schools in Grahamstown, South Africa". Presented at the South African Telecommunication Networks and Applications Conference (SATNAC) 2005, Drakensberg, South Africa.
- 2004 Brandt, I., Terzoli, A., and Hodgkinson-Williams, C. (2004) "Models of Internet connectivity in previously disadvantaged Secondary schools in the Eastern Cape". Work in Progress paper presented at the South African Telecommunication Networks and Applications Conference (SATNAC) 2004, Stellenbosch, South Africa.

## Posters

- 2005 Brandt, I., Hodgkinson-Williams, C., and Terzoli, A. (2005) "Networking the Learner: A survey of the ICT infrastructure in schools in the Grahamstown area". Presented at the 8th World Conference in Computer Education (WCCE) 2005, Stellenbosch, South Africa.

## Achievements

- CSSA award 2005, The Computer Society of South Africa (CSSA) Eastern Cape Chapter ICT student of the year award
- Merit award 2000, Academic Merit Award, Rhodes University
- Full Colours 1997 - 1999, Full Academic Colours, Victoria Girls' High School
- Half Colours 1999, Cultural Half Colours, Victoria Girls' High School
- Royal Academy School of Dancing Examinations  
1991 - 2000, Grades 2 - 8
- Grahamstown Eisteddfod 1991 - 2001, Achieved various Gold, Silver and Bronze awards for Ballet/Dance, Speech and Drama, and Open Art Design.

## Student Activities

- Rhodes University Computer Users Society  
2005, Vice President  
2004, President  
2003, Secretary

## Community Involvement

- Rhodes University Computer Users Society  
2005, Assisted in Mary Waters Secondary School TuxLab installation; Provided a series of Computer Literacy courses to the Nyaluza Secondary School Representative Council of Learners.  
2004, Provided Computer Literacy courses to students and staff at Nyaluza Secondary School; Helped install the computer lab at George Dickerson Primary school.
- The Shuttleworth Foundation 2005, Assisted in TuxLab installations in Port Elizabeth at 12 schools in the Zwide area.
- Personal capacity 2005, Helped install the new computer lab at Mary Waters High School, sponsored by Dell.  
2006-2007, Continued support to local schools in terms of network and systems administration needs

## References

- Prof Alfredo Terzoli  
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Coordinator, Centre of Excellence in Distributed  
Multimedia  
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