

DOUGLAS A. PARRY

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Department of Information Science, Stellenbosch University, South Africa

CURRICULUM VITAE

PERSONAL DETAILS

DOB 17 February 1992 (27, married)
Website dougaparry.com ◊ suinformatics.com/ctrgr
ORCID orcid.org/0000-0002-6443-3425
Google Scholar bit.ly/2D8pp4V (citations: 41, h-index: 4)
ResearchGate www.researchgate.net/profile/Douglas_Parry

EDUCATION

Stellenbosch University *(Examination May 2019)*
PhD in Socio Informatics
Thesis: *Media Multitasking and Cognitive Control: Assessing the Feasibility of an Intervention Requiring the Self-regulation of Smartphone Use*
Supervisors: Dr D. B. le Roux & Dr J. R. Bantjes

Stellenbosch University *2017*
MA (Cum Laude) in Socio Informatics
Thesis: *The digitally-mediated study experiences of undergraduate students in South Africa*
hdl.handle.net/10019.1/102667
Supervisor: Dr D. B. le Roux

Stellenbosch University *2015*
BAHons (Cum Laude) in Socio Informatics
Mini-thesis: *An investigation of alternative information displays for load-shedding schedules*
Supervisor: Mrs C. Pretorius

Stellenbosch University *2014*
BA in Socio Informatics
Majors: Socio Informatics, Economics

Diocesan College *2010*
National Senior Certificate
Mathematics, English, Afrikaans, Information Technology, Physical Sciences, Visual Arts

ACADEMIC EXPERIENCE

Department of Information Science, Stellenbosch University January 2017 - December 2019
Junior Lecturer (full time) *Stellenbosch, South Africa*

Frederick van Zyl Slabbert Institute for Student Leadership Development, Stellenbosch University January 2017 - October 2017
Graduate Programme Facilitator (part time) *Stellenbosch, South Africa*

Department of Information Science, Stellenbosch University January 2016 - December 2016
Junior Lecturer (part time) *Stellenbosch, South Africa*

Department of Information Science, Stellenbosch University February 2014 - November 2015
Teaching Assistant (part time) *Stellenbosch, South Africa*

INDUSTRY EXPERIENCE

Freelance <i>Freelance web developer (part time)</i>	2014 - 2017 South Africa
4i Mobile <i>Intern (full time): Mobile application UX, Agile/Scrum processes</i>	July 2015 - August 2015 Stellenbosch, South Africa
Braxton Consulting Group <i>Intern (part time): Data management</i>	March 2015 - May 2015 Stellenbosch, South Africa

PUBLICATIONS (PEER REVIEWED)

1. Broughton, A., Daly, M.D., Marx, N., Nieuwoudt, M., le Roux, D. B., **Parry, D.A.**, (in press). An exploratory investigation of online and offline social behaviour among digital natives *Proceedings of the 2019 Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2019)*, Skakuza, South Africa, ACM.
2. Mbilini, S., le Roux, D. B., **Parry, D.A.**, (in press). Does automation influence career decisions among South African students? *Proceedings of the 2019 Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2019)*, Skakuza, South Africa, ACM.
3. **Parry, D.A.**, le Roux, D. B., & Cornelissen, L.A., (2019). Managing In-Lecture Media Use: The Feasibility and Value of a Split-Class Policy. *Journal of Computing in Higher Education*. doi.org/10.1007/s12528-019-09232-z
4. **Parry, D.A.**, (2019). Computing Research in South Africa: A Scientometric Investigation. *South African Computer Journal* 31(3), 51-79. doi.org/10.18489/sacj.v31i1.674
5. le Roux, D.B., **Parry, D.A.**, (2019). Investigating differences in the attention distribution strategies of high and low media multitaskers through a two-dimensional game. *Cyberpsychology: Journal of Psychosocial Research on Cyberspace* 13(3). <https://doi.org/10.5817/CP2019-3-2>
6. **Parry, D.A.**, (2019). Book Review: Permanently Online, Permanently Connected: Living and Communicating in a POPC World. *Information, Communication, and Society*. doi.org/10.1080/1369118X.2019.1590441
7. **Parry, D.A.**, le Roux, D. B., (2019). Media Multitasking and Cognitive Control: A Systematic Review of Interventions. *Computers in Human Behavior*, 92, 316-327. doi.org/10.1016/j.chb.2018.11.031
8. **Parry D.A.**, le Roux D.B., (2019). Off-task Media Use in Lectures: Towards a Theory of Determinants. In: Kabanda S., Suleman H., Gruner S. (eds) *ICT Education. SACLA 2018. Communications in Computer and Information Science*, 963. Springer, Cham. doi.org/10.1007/978-3-030-05813-5_4
9. **Parry, D.A.**, le Roux, D.B., (2018). In-lecture Media Use and Academic Performance: Investigating Demographic and Intentional Moderators. *South African Computer Journal* 30(1), 85-107. doi.org/10.18489/sacj.v30i1.434
10. le Roux, D. B., **Parry, D.A.**, (2017). In-lecture Media Use and Academic Performance: Does Subject Area matter? *Computers in Human Behavior*, 77, 86-94. doi.org/10.1016/j.chb.2017.08.030
11. le Roux D.B., **Parry D.A.**, (2017) A New Generation of Students: Digital Media in Academic Contexts. In: Liebenberg J., Gruner S. (eds) *ICT Education. SACLA 2017. Communications in Computer and Information Science*, vol 730. Springer, Cham. doi.org/10.1007/978-3-319-69670-6_2

12. Pretorius A, **Parry D.A.**, (2016). Human Decision Making and Artificial Intelligence - A Comparison in the Domain of Sports Prediction. In: Coetzee M, Ehlers E, Coulter D, Marnewick C, Leung WS (eds.) *Proceedings of the 2016 Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2016)*, Johannesburg, South Africa, ACM. doi.org/10.1145/2987491.2987493
13. Leysens J.L., le Roux D.B., **Parry, D.A.**, (2016). Can I have your attention please? An empirical investigation of media multitasking during university lectures In: Coetzee M, Ehlers E, Coulter D, Marnewick C, Leung WS (eds.) *Proceedings of the 2016 Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2016)*, Johannesburg, South Africa, ACM. doi.org/10.1145/2987491.2987498
14. **Parry D.A.**, Pretorius C., (2015). Maps as a technique for visualizing load-shedding schedules. In: Barnett, R. J., Cleophas, L., Kourie, D. G., le Roux, D. B., Watson, B. W. (eds.) *Proceedings of the 2015 Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2015)*, Stellenbosch, South Africa, ACM. doi.org/10.1145/2815782.2815784

PUBLICATIONS IN REVIEW OR REVISION

le Roux, D.B., **Parry, D.A.**, Off-task Media Use in Academic Settings: The Inescapable Cycle of Self-regulation Failure. *Minor revisions* submitted (03/2019).

ACADEMIC CONFERENCE PRESENTATIONS (ABSTRACTS)

Parry, D.A.*, le Roux, D. B., & Cornelissen, L.A. (2018). Lecturer versus Smartphone: Towards a Policy for Teaching Distracted Minds. 11th Annual Scholarship for Teaching and Learning conference (SOTL). Somerset West, South Africa. [slides]

Parry, D.A.*, le Roux, D. B. (2017). Irresistible Media: Why Do Students Media Multitask? 15th International CyberSpace Conference. Brno, Czech Republic.

le Roux, D.B.* **Parry, D.A.**, (2017). Metaphors of Social Media. 15th International CyberSpace Conference. Brno, Czech Republic.

Parry, D.A., le Roux D.B.* (2017) Smartphones in lectures, is resistance futile? 10th Annual Scholarship for Teaching and Learning conference (SOTL). Somerset West, South Africa.

le Roux, D.B.* , **Parry, D.A.** , & Leysens, J. (2016). Smart Phones, Stupid People? 14th International CyberSpace Conference. Brno, Czech Republic.

Parry, D.A.*, le Roux D.B, Leysens J.L. (2016) Media Multitasking in Academic Contexts: An Empirical Analysis of Media Use Within University lectures. 9th Annual Scholarship for Teaching and Learning conference (SOTL). Somerset West, South Africa.

PUBLIC LECTURES, INVITED TALKS, SEMINARS & COLLOQUIA

Parry, D.A.*, le Roux, D.B., (2018) Permanently Online, Permanently Connected Media Multitasking and Distractibility – Is it So Bad and What Can We Do About It? Invited talk presented at the Milton Erikson Annual Conference 2018. Somerset West, South Africa.

*Presented

le Roux, D.B.*, **Parry, D.A.***, (2017) Media Multitasking and Distractibility: Where we are, how we got here and where we're going. Seminar Presented at the Chair for Business Informatics, Social Media and Data Science, University of Potsdam, Germany.

le Roux, D.B.*, **Parry, D.A.***, (2017) The Relationship Between Media Multitasking and Cognition – What Do We Know? Seminar Presented at the Whitaker Institute for Innovation and Societal Change, National University of Ireland, Galway, Ireland.

le Roux, D.B.*, **Parry, D.A.***, (2017) The State of Research Concerning the Relationship between Media Multitasking and Cognition. Colloquium Presented at the Information Science Departmental Colloquia, Stellenbosch University, South Africa

Parry, D.A.*, Pretorius, A., (2016) Human Decision Making and Artificial Intelligence – Predicting Sports Results. Colloquium Presented at the Information Science Departmental Colloquia, Stellenbosch University, South Africa

SELECTED SCHOLARSHIPS, AWARDS & GRANTS

Best Paper Award	2018
<i>SACLA'18: Off-task Media Use in Lectures: Towards a Theory of Determinants</i>	
Harry Crossley Doctoral Bursary for Local Study	2018
<i>Harry Crossley Foundation</i>	R120 000
Travel Grant	2017
<i>Stellenbosch Division for Research Development</i>	R15 000
Mellon Early Career Research Development Grant	2017
<i>Mellon Foundation</i>	R25 000
Think Tank Participant	2016
<i>Stellenbosch University, Katholieke Universiteit (KU) Leuven</i>	
Post-Graduate Merit Bursary	2016
<i>Stellenbosch University</i>	R27 500
Scarce Skills Bursary	2015
<i>National Research Foundation (NRF)</i>	R40 000
Post-Graduate Merit Bursary	2015
<i>Stellenbosch University</i>	R17 500
Senior Merit Bursary	2014
<i>Stellenbosch University</i>	R7 500
Other honours and awards	
<i>Included in top 10 undergraduate economics students.</i>	2014
<i>Invited to Golden Key International Honours Society</i>	2013
<i>Full school colours for visual arts, half colours for leadership</i>	2010
<i>School exchange to Llandovery College, Wales</i>	2008
<i>School academic, all-rounders, and ensemble ties</i>	2007 - 2009
<i>Athletics Victor Ludorum</i>	2007

SUPERVISION

S Mbilini	Automation and Labour Demand: South African Students' Awareness and Beliefs. <i>MA in Socio Informatics</i> , SU (50% co-supervision with Dr. D. B. le Roux) [Examination May 2019]
A Abendroth	Technology Addiction Scales. <i>B. Wirtschaftsinformatik and Electronic Government, Bachelor Thesis, Universität Potsdam, 2019 (25% co-supervision)</i> [Examination June 2019]
S Fraser, K Veness, C Dow	A framework of media use dimensions. <i>BCom (Hons) in ISM</i> , SU, 2019 (50% co-supervision with Dr. D. B. le Roux) [in progress]
D Mauff, R Rabe, N Carlisle	Analysing the skills gap in South Africa. <i>BCom (Hons) in ISM</i> , SU, 2019 (50% co-supervision with Dr. D. B. le Roux) [in progress]
A Pretorius, M de Waal	Media Multitasking Combinations. <i>BCom (Hons) in ISM</i> , SU, 2018 (50% co-supervision with Dr. D. B. le Roux)
M Daly, A Broughton, N Marx, M Niewoudt	Online Social behaviour vs. offline behaviour: A comparison. <i>BCom (Hons) in ISM</i> , SU, 2018 (50% co-supervision with Dr. D. B. le Roux)
S Warmerdam	Media Multitasking and Its Influence on Students' Recall During a Lecture. <i>BCom (Hons) in ISM</i> , SU, 2017 (100% supervision) [cum laude]
J Senior	How does Media Multitasking in class affect Academic Performance? A Systematic Review. <i>BCom (Hons) in ISM</i> , SU, 2017 (100% supervision) [cum laude]
M Muller	Out of Our Depth? The Impact of Media Multitasking on Cognitive Ability: A Review. <i>BCom (Hons) in ISM</i> , SU, 2017 (100% supervision)
W du Plessis	Creating a New Short and Universal Measurement Tool for Media Multitasking. <i>BCom (Hons) in ISM</i> , SU, 2017 (100% supervision)

TEACHING

BComHons Information Systems Management Research Theory; Project Management; Enterprise Computing; Data Analysis	2017 - present
SI/ISM [†] 314: Database Systems Design	2017 - present
SI/ISM [†] 224: Introduction to Computer Programming	2016 - present
SI/ISM [†] 262: Decision-making and Organisation	2016

SERVICE IN THE ACADEMIC COMMUNITY

Ad-hoc reviewer: SAICSIT Annual Conference	2019
Ad-hoc reviewer: Computers in Human Behaviour	2019
Ad-hoc reviewer: European Conference on Information Systems (ECIS)	2019
Ad-hoc reviewer: South African Computer Journal (SACJ)	2017

PROFESSIONAL AFFILIATIONS

South African Institute for Computer Scientists and Information technologists (SAICSIT)	2015 - present
South African Computer Lecturers Association (SACLA)	2016 - present

[†]Socio Informatics/Information Systems Management dual module

DEPARTMENTAL ADMINISTRATION & SERVICE

Information Science Departmental Programme renewal curriculum development	2018 - present
BCom Honours (ISM) Module Coordinator: Advanced Information Systems Theory and Practice	2018
Marketing Presentations for Department of Information Science	2017 - present
BCom Honours (ISM) Admissions Committee Member	2017 - present
Information Science Departmental Evaluation Committee Member	2016

CONTINUED RESEARCH, TEACHING AND SKILLS DEVELOPMENT

<i>Summer Institute in Computational Social Science (SICSS)</i>	2019
Presented by Matthew Salganik and Chris Bail, jointly hosted by Princeton and Duke universities, funded by the Russell Sage Foundation, the Alfred P. Sloan Foundation, and the International Union for the Scientific Study of Population. Partner location at the University of Cape Town. Locally organised by Vissého Adjiwanou (17 - 28 June), Cape Town. https://compsocialscience.github.io/summer-institute/2019/capetown/	
<i>DataCamp online mini-courses (27 with certificates)</i>	2018 - present
Programming in R, data cleaning & manipulation, statistical foundations & analysis, data visualisation & communication, version control, relational databases & SQL, machine learning.	
<i>Applying Kanban (Foundation-KMP I) Training (Professional Certification)</i>	2018
Presented by: M. Freislich (Agile42). Certified LKU (22-23 August), Cape Town. https://www.agile42.com/en/training/list/KFL/applying-kanban-foundation-kmp-i-training	
<i>Workshop on Teaching Portfolios</i>	2018
Presented by: Dr K. Cattell-Holden & Mr N Kramm (14 March), Stellenbosch.	
<i>Data Carpentry Workshop</i>	2017
Presented by: A. van Rensberg, A. Hodge, I van der Linde & J Steyn (6 - 8 November), Stellenbosch.	
<i>Outsystems Developer Bootcamp</i>	2017
Presented by: O. Worth (23 - 27 October), Stellenbosch.	
<i>The role of statistics in research</i>	2017
Presented by: Prof M. Kidd (3 August), Stellenbosch.	
<i>Making important decisions about publishing your research</i>	2016
Presented by: M. Roux, M. Seyffert, D. Pieterse, Stellenbosch.	
<i>KU Leuven-Stellenbosch University Think Tank</i>	2016
Theme: "Brave new world? Merging technology and society: opportunities, challenges and threats to the quality of life". https://www.kuleuven.be/english/international/thinktank http://bit.ly/2GqL0f0	
<i>Frederick van Zyl Slabbert Institute for Student Leadership: Graduate Programme</i>	2015
Presented by: F. Tulkki-Williams, Stellenbosch.	

MEDIA COVERAGE (SELECTED)

ERR: Novaator: [Estonia] http://bit.ly/2U0BBBB	2018
Daily Mail UK: [United Kingdom] https://dailym.ai/2VEUWma	2017
Universe Online: [The Netherlands] http://bit.ly/2If9Psk	2017

Cape Times: [South Africa] <http://bit.ly/2UNNjgd> 2017

Business Day: [South Africa] <http://bit.ly/2D7BU0k> 2017

TimesLive: [South Africa] <http://bit.ly/2U0DBtP> 2017

CapeTalk/Radio 702 interview: [South Africa] <http://bit.ly/2Z5Tont> 2017

Radio Interview: Smile FM: Evening show discussion on recent research [South Africa] 2017

Radio Interview: Voice of the Cape: Morning show interview on recent research [South Africa] 2017

SU Press release: [South Africa] <http://bit.ly/2KqKX2V> 2017
<https://www.youtube.com/watch?v=SJAUwjiZNfg>

SKILLS (RESEARCH, TECHNICAL & SOFT)

Research	Qualitative Analysis, Quantitative Analysis, Mixed Methods Techniques, Experiment design, Systematic and meta-analytic Reviews, Focus groups, Interviews, Survey-design, Bibliometrics, Web scraping and automated data collection
Programming	R, Python, SQL, HTML, CSS, Javascript, modelling (UML, ERD)
Statistical Procedures & Analysis	Data cleaning & transformation, exploratory data analysis, confirmatory data analysis, hypothesis testing, visualisation (ggplot2), ANOVA/Regression
Tools & Software	L ^A T _E X, Markdown, git, MS Office, PsychoPy, PsyToolKit
Soft Skills	Leadership, academic supervision, mentoring, public speaking, curriculum development, teaching (undergraduate & postgraduate)
Subject Matter Knowledge	Programming, organisational theory, database design and implementation, web development, ERP systems, project management (Agile methodologies), research methodologies, data analysis & visualisation, cyberpsychology, human computer interaction, media effects, communication, knowledge economy, decision theory, social informatics

RESEARCH STATEMENT

I am an early career researcher in Socio Informatics with a strong publication record and interests in Computational Social Science, Human-Computer Interaction, and Cyberpsychology. My recent research experience has enabled me to develop skills in computational and statistical analysis and a grounding in relevant domain knowledge in cognitive psychology, social informatics, human-computer interaction, communication, and media studies. Specifically, I have extensive research experience with studies concerning attention and attention-related performance in the context of technological interactions. I have experience in experimental design, survey analysis, computational data collection and analysis, focus group and interview methodologies as well as systematic and meta-analytic reviews.

My current research concerns the interplay between digital technologies, human cognition, behaviour, performance, and affective well-being across a variety of life-situations. Recently, I have developed an interest in understanding the future of work and how, at both an individual and societal level, digital technologies are shaping how people live, work and interact with each other. I am interested in applying experimental methodologies, qualitative approaches, as well as computational, data-driven research techniques to investigate changing patterns of skill-demand, the economic, social and cognitive effects of labour automation, always-on digital technologies, and how the use of digital media among students, and in the workplace, affects relationships, impacts performance, and changes the notion of how work is framed in society.

REFERENCES

Dr D.B. le Roux (Senior Lecturer, SU) *MA & PhD Supervisor* - dble Roux@sun.ac.za

DR J.R. Bantjes (Senior Lecturer, SU) *PhD co-supervisor* - jbantjes@sun.ac.za

Prof J. Fourie (Associate Professor, SU) *SU-KU Leuven Think Tank Coordinator* - johanf@sun.ac.za

Mr F. Tulkki-Williams (SU Nordic Director for Development and Alumni Relations) *Program Coordinator: External Offerings FVZS Leadership Institute* - folkersjwilliams@outlook.com