Carianne Pretorius

 ${\tt Doctoral\ Candidate\ \cdot\ Innovation, Technology, Entrepreneurship\ and\ Marketing\ (ITEM)\ Group}$

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Education

Doctoral Candidate, Industrial Engineering

Eindhoven, The Netherlands

Jan. 2017 - Present

EINDHOVEN UNIVERSITY OF TECHNOLOGY

- ITEM Group, Industrial Engineering and Innovation Sciences.
- · Promoter: Prof.Dr Fred Langerak.
- · Supervisors: Dr Maryam Razavian, Dr. Katrin Eling.
- · Topic: Cognitive styles in software design decision making.
- Expected graduation date: Spring 2021

Master's Degree Socio-Informatics

Stellenbosch, South Africa

Jan. 2013 - Mar. 2016

STELLENBOSCH UNIVERSITY

- Full thesis Masters degree.
- Supervisor: Prof.Dr.Dr Bruce Watson.
- Topic: Procedural decision support systems for supporting wicked problems.
- Graduated cum laude.

Bachelor's Degree (Honours) Socio-Informatics

Stellenbosch, South Africa

Jan. 2012 - Dec. 2012

STELLENBOSCH UNIVERSITY

- · Part coursework and part thesis honours degree.
- Coursework: Information systems theory, Systems analysis & design, Security, Algorithmics, Web programming, Data warehousing, Software development and testing, Enterprise resource planning, Leadership and decision making, and Knowledge management.
- Mini-thesis topic: A domain-specific language for producing web mashups.
- Graduated cum laude.

STELLENBOSCH UNIVERSITY

Bachelor's Degree Socio-Informatics

Stellenbosch, South Africa

Jan. 2009 - Dec. 2011

• Majors: Socio-Informatics and Psychology. Minor: Decision-Making and Value Studies.

Publications _

- 1. Pretorius, C., Razavian, M., Eling, K., & Langerak, F. (2019). Beyond Reason: Uniting Intuition and Rationality in Software Architecture Decision Making. Paper presented at Annual Conference of the IEEE International Conference on Software Architecture (Companion): ICSA-C 2019, Hamburg, Germany. doi: http://dx.doi.org/10.1109/ICSA-C.2019.00056.
- 2. Pretorius, C., Razavian, M., Eling, K., & Langerak, F. (2018). *Towards a Dual Processing Perspective of Software Architecture Decision Making*. Paper presented at Annual Conference of the IEEE International Conference on Software Architecture (Companion): ICSA-C 2018, Seattle, WA, USA. doi: http://dx.doi.org/10.1109/ICSA-C.2018.00021.
- 3. Pretorius, C. (2017). Exploring Procedural Decision Support Systems for Wicked Problem Resolution. *South African Computer Journal*, 29(1), 191-219. Retrieved from: http://dx.doi.org/10.18489/sacj.v29i1.448.
- 4. Pretorius, C. (2016). Supporting Wicked Problems with Procedural Decision Support Systems. Paper presented at Annual Conference of the South African Institute of Computer Scientists and Information Technologists: SAICSIT '16, Johannesburg, South Africa. doi: http://dx.doi.org/10.1145/2987491.2987515.
- 5. Pretorius, C. (2016). Towards a Procedural Decision Support System for Wicked Problems (Master's Thesis, Stellenbosch University, Stellenbosch, South Africa). Retrieved from: http://hdl.handle.net/10019.1/98530.
- 6. Parry, D. & Cowley, C*. (2015). Maps as a Technique for Visualizing Load-Shedding Schedules. Paper presented at Annual Conference of the South African Institute of Computer Scientists and Information Technologists: SAICSIT '15, Stellenbosch, South Africa. doi: http://dx.doi.org/10.1145/2815782.2815784.
- 7. Barnett, R.J. & Cowley, C.*(2012). A Ruby Domain Specific Language for Web Mashups. Paper presented at IADIS International Conference on WWW/Internet: Madrid, Spain. Retrieved from: http://hdl.handle.net/10019.1/84536.

^{*}Maiden name

Research Interests

Human aspects of software engineering, Decision making and decision support, Software design.

Experience _____

Doctoral Candidate & Researcher

Eindhoven, The Netherlands

Jan. 2017 - Present

EINDHOVEN UNIVERSITY OF TECHNOLOGY

- Research output: 2 conference papers published, 1 magazine/journal article under review, 1 journal article in preparation.
- (Co)supervision of bachelor end projects: 5 completed.
- Teaching subjects: Business aspects of intelligent lighting, Technology entrepreneurship.

Junior Lecturer Stellenbosch, South Africa

STELLENBOSCH UNIVERSITY

Jan. 2013 - Dec. 2016

- Research output: 1 journal article, 2 conference papers (1 as first author).
- Coordination, management, and teaching of a number of Socio-Informatics courses (usually as responsible lecturer).
- Teaching subjects: Web design and programming, Database systems, Information systems in organisations.
- Supervision of honours research projects: 5 completed.
- Was part of the faculty first year committee that came up with strategies to assist vulnerable first year students.
- Acted as a member of the department assessment panel for Master's theses.

Lecturer's Assistant and Tutor

Stellenbosch, South Africa

STELLENBOSCH UNIVERSITY Feb. 2011 - Nov. 2012

- Facilitated and oversaw practical sessions for second and third year Socio-Informatics modules.
- Became head tutor in the second year due to proven tutoring and administrative skills.
- · Assisted lecturers with assessment sessions and grading.

Extracurricular Activity _____

VolunteerEindhoven, The Netherlands

PARKRUN

Sep. 2019 - Present

- Part of the core volunteer team that launched parkrun Netherlands, at Karpendonkse Plas parkrun, Eindhoven on 29 February 2020.
- Running and facilitating weekly parkrun events (route marshalling and barcode scanning) pre-COVID-19.

Skills

Languages English (native proficiency), Afrikaans (professional working proficiency), Dutch (limited working proficiency)

Academic Quantitative research (experiments), Data analysis, Teaching, Supervision.

Software MS Office, Qualtrics, SPSS, LaTeX, R (basic).

Development Python, MySQL, UML.

Web HTML5, CSS3, JavaScript.

Honours & Awards

Magic WARP Award, Best PhD research proposal at "Writing and Assessing Research Proposals"

course at Department of Industrial Engineering.

2013 **Scholarship**, Harry Crossley Foundation Scholarship for master's study.

2012 **Bursary**, Stellenbosch University Merit Bursary for honours study.

2012 **Bursary**, National Research Foundation Scarce Skills Bursary for honours study.

2011 Bursary, Stellenbosch University Merit Bursary for undergraduate study.

Hobbies

Running, hiking, bouldering, gardening, travelling, wine and beer tasting, fine dining and cooking.