

Darryn Anton Jordan

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Ph.D. candidate at the University of Cape Town, South Africa. Specialised in frequency-modulated continuous-wave (FMCW) synthetic aperture radar (SAR). Passionate about signal processing and radar system design, with strong technical and interpersonal skills.

Formal Education

- **University of Cape Town** **Cape Town, South Africa**
Ph.D. in Electrical Engineering in Radar, Submitted for examination. 2016–Present
- **University of Cape Town** **Cape Town, South Africa**
B.Sc. in Electrical Engineering in Mechatronics, Graduated with honours. 2012–2015
- **Hudson Park High School** **East London, South Africa**
National Senior Certificate, Graduated with honours. 2007–2011

Technical Skills

- **Software:** Python, C/C++, Matlab, HTML, CUDA, FreeCAD.
- **Gateware:** Verilog (Vivado).
- **Hardware:** Red Pitaya (Zynq 7010), Emlid Reach M+ RTK GNSS, LMX2492EVM, Jetson TK1, STM32F0, Arduino, Raspberry Pi.
- **Equipment:** Spectrum Analysers, Network Analysers, Oscilloscopes, Multi-meters.
- **Operating Systems:** Linux, Windows.
- **Other:** Git, L^AT_EX.

Positions of Responsibility

2020: Undergraduate Project Supervisor.
2020: IET Radar, Sonar & Navigation Journal Peer Reviewer.
2020: Space Studies Masters Programme Remote Exam Administrator.
2019–2020: Radar Masters Programme Teacher's Assistant.
2017–2018: Signals & Systems II Tutored Reassessment Programme (TRP) Assistant Lecturer.
2017: Embedded Systems I Tutor.
2016: Signals & Systems II Teacher's Assistant.

Recent Journal Publications

- **IEEE Transactions on Microwave Theory and Techniques**
"Suppression of Spur Chirps for Fractional-N PLL-Based Heterodyne FMCW SAR"
D. A. Jordan, M. R. Inggs, M. Y. Abdul Gaffar, 2020, DOI: 10.1109/TMTT.2020.3030273
- **IET Electronics Letters**
"Integer Boundary Spur Considerations for Fractional-N PLL Based FMCW Radar"
D. A. Jordan, M. R. Inggs, M. Y. Abdul Gaffar, 2020, DOI: 10.1049/EL.2020.0764

References

Dr. Michael Inggs: Emeritus Professor in Radar, University of Cape Town (mikings@gmail.com)
Dr. Yunus Gaffar: Senior Lecturer, University of Cape Town (yunus.abdulgaffar@uct.ac.za)
Dr. Stephen Paine: Lecturer, University of Cape Town (stephen.paine@uct.ac.za)