SA Grape and Wine research Institute

Programme/Project Info for

Prospective MSc and PhD Students

# Programme: DIGITAL VITICULTURE “New Tools for Precision Management”

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| Improving the efficiency and quality of wine and table grape production through sensors, robots and advanced analytics. | New technologies, such as sensors, thermal cameras, image analysis, drones and robots are converging to make precision viticulture possible. The introduction of new technologies for supporting vineyard management allows the efficiency and quality of production to be improved and, at the same time, reduces the environmental impact. Our projects are related to climate change impacts on agriculture, estimations of water consumption using models and micrometeorological techniques, development of new computational and technological tools for precision viticulture and plant physiology and detection of water stress using Thermography, Remote sensing and Unmanned Aerial Vehicles (UAVs). |

# OpPortunities for 2020-2021

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| The research focus of this program with multiples research and innovation projects is:* Monitoring systems to improve water management, quality and stress detection.
 | * Researchers involved: Carlos Poblete, Marianne Mckay, Talitha Venter and Melane Vivier.
* MSc and PhD bursaries available (under confirmation)
* To discuss the projects and bursaries opportunities: Dr Poblete cpe@sun.ac.za; tel 021-808 2747
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# general Contact information

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| To apply: | Lorette de Villiers; lorette@sun.ac.za; tel 021 808 3770 |
| Bursary office: | Postgradfunding@sun.ac.za; tel 021-808 4208 |
| Website | [http://www.sun.ac.za/english/faculty/agri/viticulture-oenology](http://www.sun.ac.za/english/faculty/agri/viticulture-oenology/) |