

# University of Pretoria Yearbook 2019

## Data science: analytics and visualisation 880 (TRG 880)

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| <b>Qualification</b>          | Postgraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a> |
| <b>Module credits</b>         | 20.00  |
| <b>Programmes</b>             | <a href="#">MSc Advanced Data Analytics (Coursework)</a>     |
| <b>Service modules</b>        | Faculty of Economic and Management Sciences                  |
| <b>Prerequisites</b>          | Admission to relevant programme.                             |
| <b>Contact time</b>           | 1 lecture per week   |
| <b>Language of tuition</b>    | Module is presented in English                               |
| <b>Department</b>             | Statistics   |
| <b>Period of presentation</b> | Semester 1 or Semester 2                                     |

### Module content

Supervised learning and applications. Multicollinearity, ridge regression, the LASSO and the elastic net. Parametric and nonparametric logistic regression and nonlinear regression. Survival regression. Regression extensions: Random forests MARS and Conjoint analysis. Neural networks.

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