Python for Geothermal Scientists and Engineers

Thursday, 28 November 2019
8:30am – 3:30pm

Python is the computer language of choice for engineers and scientists. It is flexible and one of the easiest programming languages to learn. Python is the perfect tool to plot, down-sample and interpolate from station, steamfield and well data, without any dataset size limitations. Attractive and easily repeatable ternary, frequency, striplog, and time series plots can be made where formatting is set once and data updated as required—great for monthly reporting, geochemical analysis, and comparing between wells. Python is the language of choice for geothermal modelling (e.g., TOUGH2) and common geospatial packages (e.g., ArcGIS), and it interfaces well with your existing Excel sheets. In this course, you will be taken though the rules for writing a Python computer program and shown some common geothermal applications, such as analysing and plotting well data and simple modelling. This course assumes no prior experience writing computer code and is appropriate for geologists, geochemists, and reservoir engineers alike. Computers are provided at the location but participants are encouraged to bring a laptop with Python pre-installed (instructions will be given).

Cost

$50 UoA Postgrad Student Registration: https://uoaevents.eventsair.com/nzgw19/pythonij
Other registrations: https://www.geothermalworkshop.co.nz

Presenters

Dr David Dempsey joined the University of Auckland Engineering Science Department in 2015. Prior to that, he worked on renewable energy and natural hazard problems at Los Alamos National Laboratory and Stanford University. He uses Python for everything and gets a bit preachy sometimes, sorry about that.