

The University of Nottingham PRoGIS 2.0 Data About Contacts Logout [michelegiordano](#) UCL

Total: 735.355 Length: 188.716

Open Controls

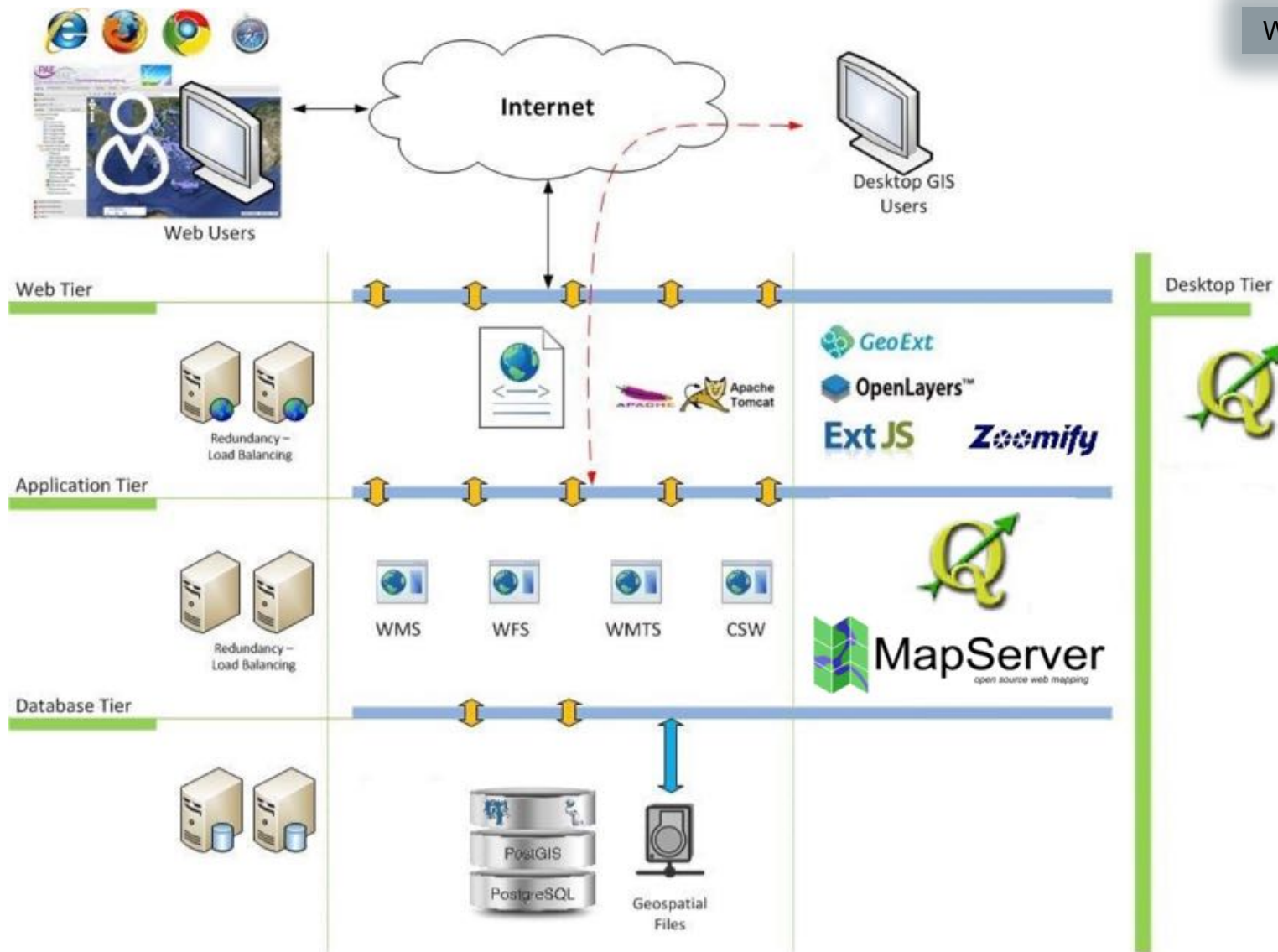
PRoGIS 2.0

Michele Giordano¹

¹ michele.giordano@nottingham.ac.uk

PRoGIS 2.0 Nottingham Geospatial Institute

WebGIS Schema



- Open Gis Consortium compliant
- Support for **IAU planetary datum**
- **Reverse Proxy** to preserve data sources
- WMS, WFT, PostGIS, Images
- **Public/Restricted Access** to Missions/Map
- Administration Interface
- 2 different levels of service: DataServer (QGIS-MapServer), WebServer (Apache 2.x)
- Python/Django Framework

- Well known OL3/Bootstrap/Jquery Client Framework
- **Dynamic data discover** in local databases (cron job based)
- **New data products requests**
- **Search** data by **bounding box** (PostGIS data preferred)
- **Search** data by **attributes**

- Personalized Maps
- **Graphical Annotations**
- **Annotations and Maps shared**
- **Measurement Tools**
- IAU Datum supported though **Proj4JS**
- Data layers also from **external sources**
- Transparency data layer supported
- **Elevation Profile tool**
- **Point Cloud Support**
- **Panorama Support**

User Interface

General Organization – Buttons - Tools

Web GIS**Administration tool**

Layer Configuration
Group Configuration
Theme Configuration
Roles Configuration

Authentication

LDAP, NTLM & other
Roles

Editing Application

- Create Map
- Edit Map Components
- Share Map
- Publish Map

GIS Functionality

- Data Visualisation
- Data Query
- Import/export Data
- Map Composer
- Map navigation
- Layout composer
- Full text search

Web Map Viewer**Search Tools**

- Full Text Search

Navigation Tools

- Zoom & Pan
- Navigation Bar
- Overview Map
- Permalink

Query Tools

- Point Interrogation
- Rectangle Interrogation

Data

- OGC Compliant
- WMS
- WFS
- GeoJson
- Picture Data
- Feature Data

Measure Tools

- Length
- Area

Print

- Scale Specification
- Paper Size
- Resolution
- PDF/GeoTiff

Annotation Tools

- Automatic annotation placement
- Manual text annotation

3D GIS VIEWER**Navigation Tools**

- Interactive Photo Viewer
- Rover Point Selection
- Full Screen Photo
- Panorama Photo Navigation
- Pictues annotation
- Map annotation

Drawing Tools

- Point
- Line
- Polygon
- Annotation

Graph Tools

- Profile Generation
- Customized representation

API Web Services

- Django Rest Framework
- WPS
- External API request

Components

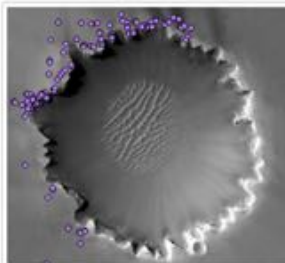
- GeoNetwork
- GeoServer
- GeoGit
- Django
- Three.js
- OpenLayer
- ExtJS
- GeoExt
- PostGIS



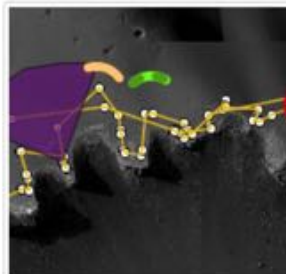


Welcome to PProGIS 2.0, a webGIS system to access MER rover data & processing provided by the PProVIP image processing package. PProGISweb 2.0 was developed as part of the PProVisG project, supported by the European Community FP7-2007.2.1.01 Space research project no: 218814, and the PProViDE project, supported by the European Community FP7/2007-2013 Space research project no: 312377

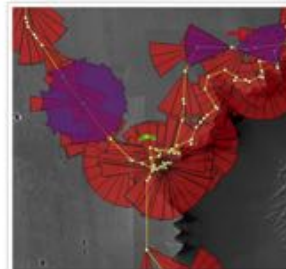
Latest Missions



Victoria Crater Site

[More Info](#)

Victoria Crater Panoramas

[More Info](#)

Victoria Crater Point Clouds

[More Info](#)

Victoria Crater DEM

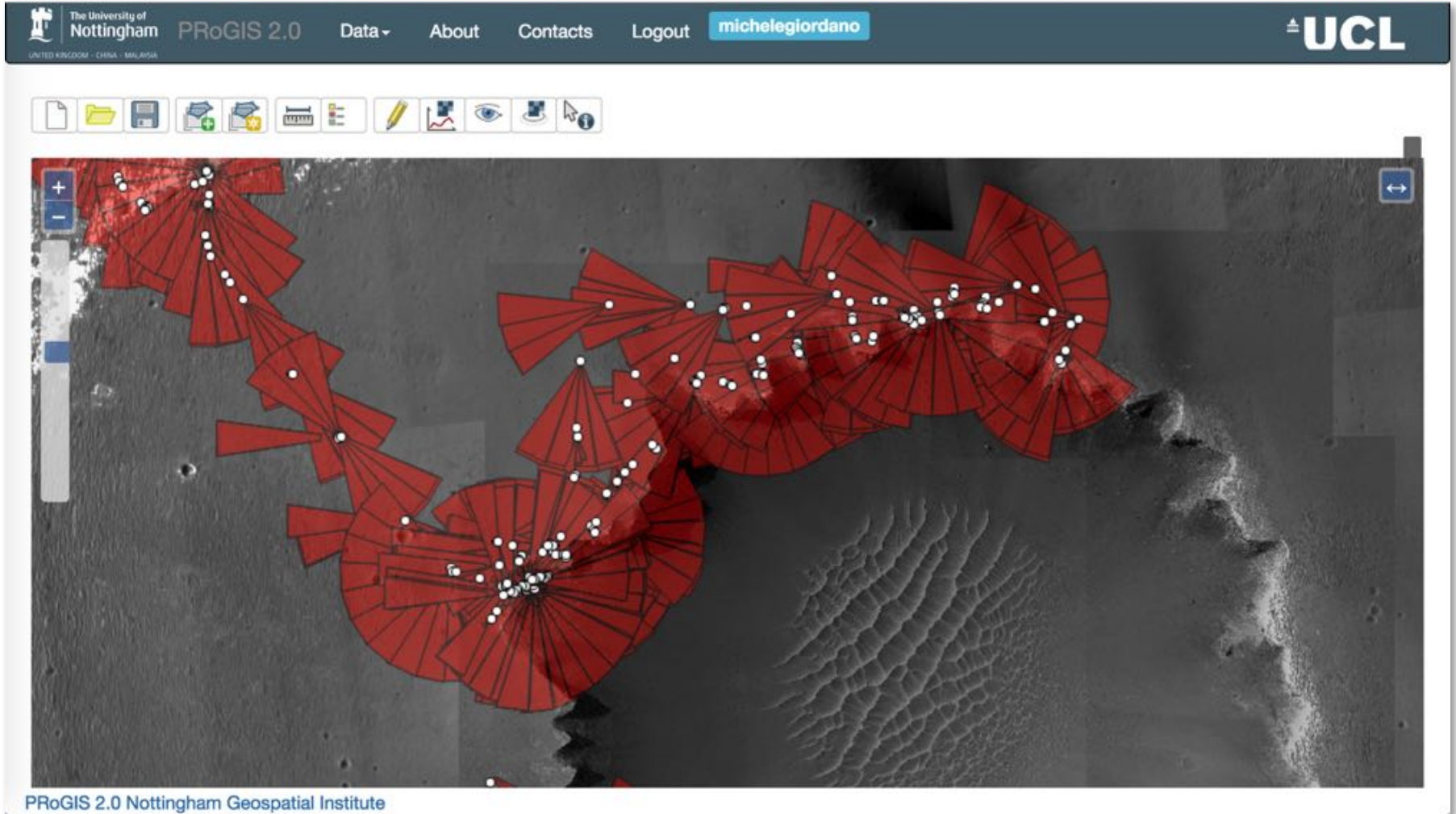
[More Info](#)



Missions

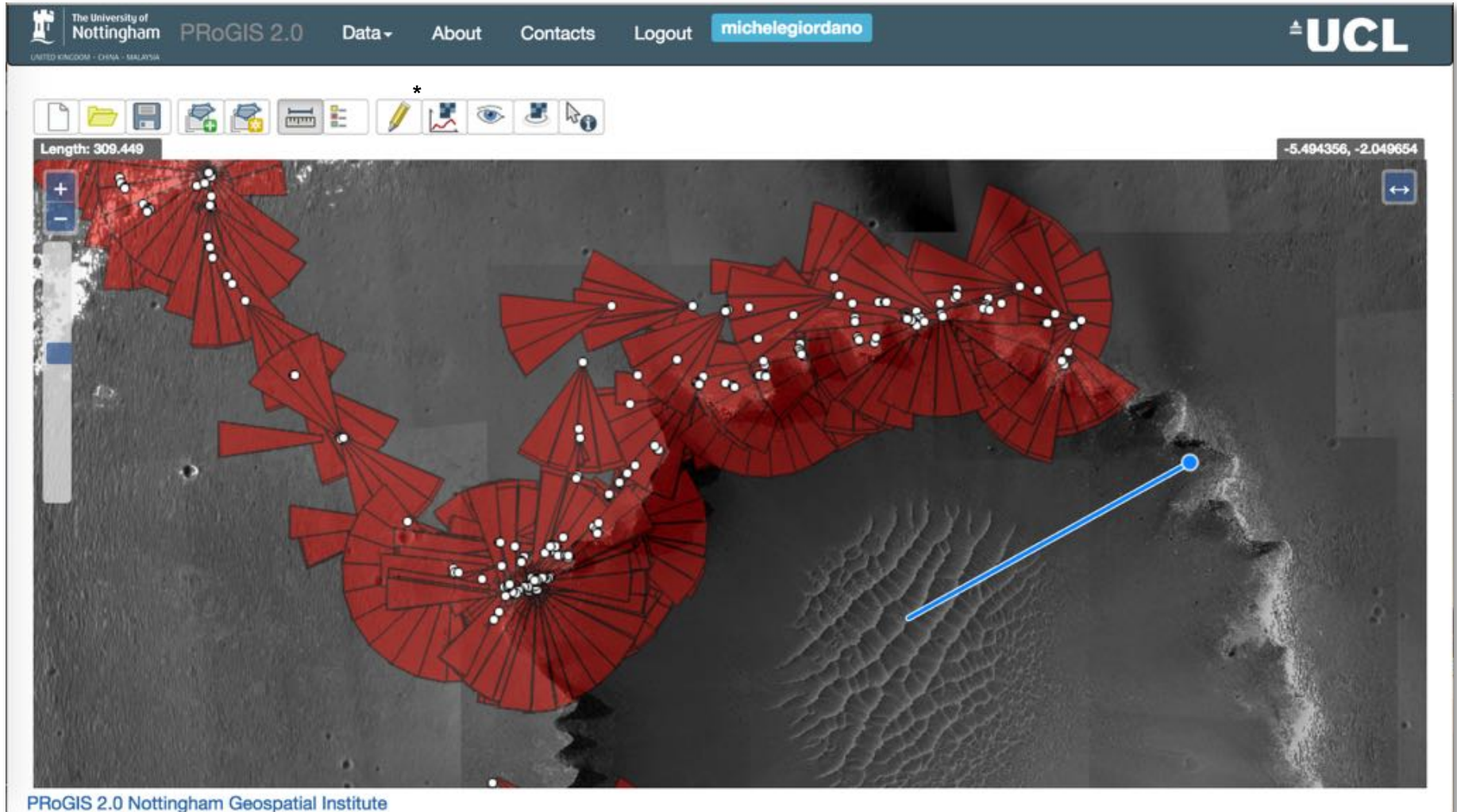
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1	Mars:Victoria Crater 2	Map Mars Victoria Crater	IAU2000:49900	-5.50631,-2.0625,-5.49095,-2.04588	Open
2	Mars:Victoria Crater	Map Mars Victoria Crater	IAU2000:49900	-5.50631,-2.0625,-5.49095,-2.04588	Open
4	Mars:Victoria Crater PanCam	Map Mars Victoria Crater	IAU2000:49900	-5.50631,-2.0625,-5.49095,-2.04588	Open
5	Mars:Victoria Crater NavCam Fulcra	Map Mars Victoria Crater	IAU2000:49900	-5.50631,-2.0625,-5.49095,-2.04588	Open

Mission Map



Measurement tool

*
Vincenty formula



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Length: 898.198

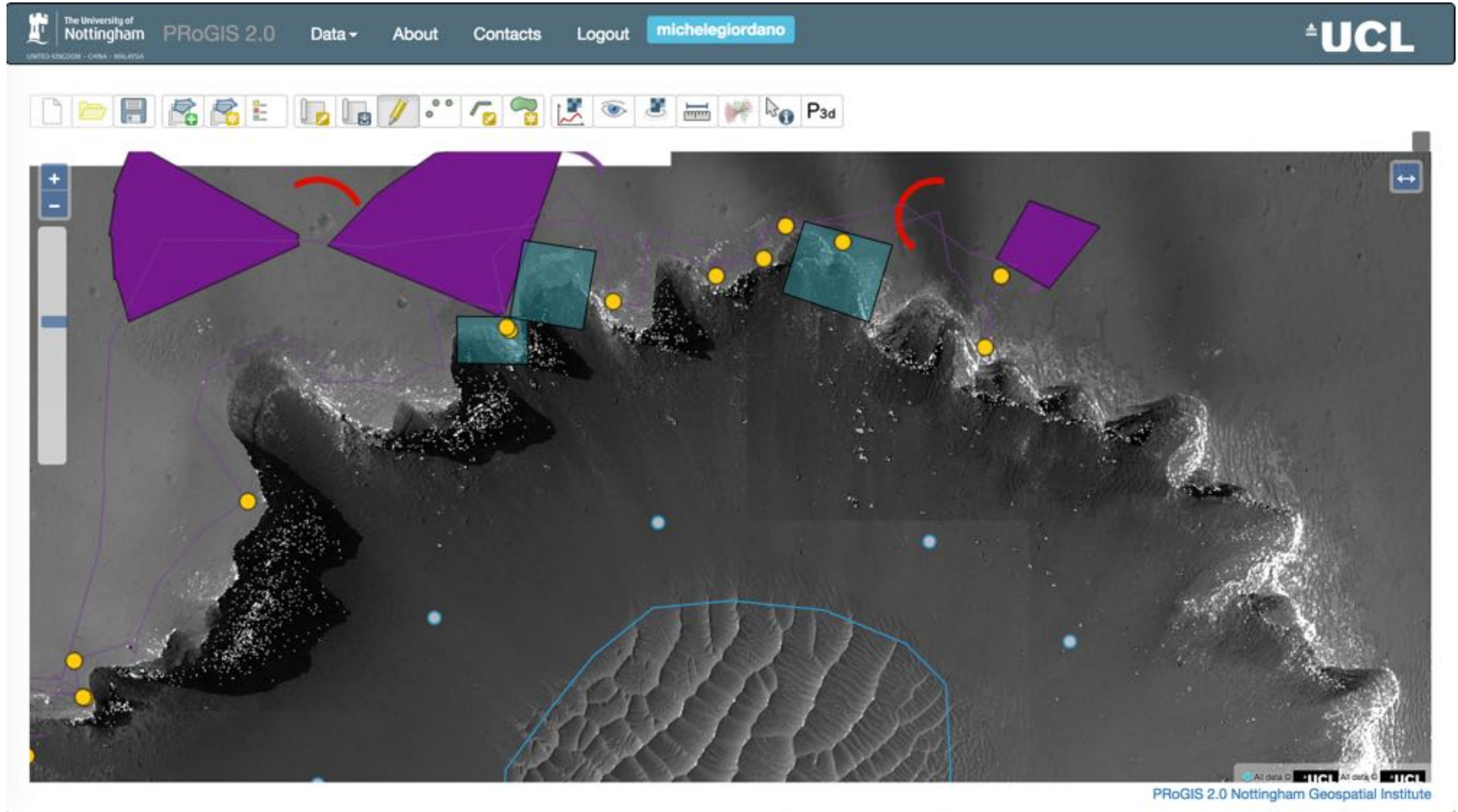
Data Catalogue

- ☒ Local WMS Service
- ☐ Map a Planet
 - ☐ victoria_crater
 - ☐ hirise
 - ☐ hirise_ortho
 - ☐ NavCamFulcra
 - ☐ MerB_Track
 - ☐ PanCamFulcra
 - ☐ Mars
 - ☐ MerBStops
 - ☐ panoramas
 - ☐ Victoria_DTM_49900
 - ☐ pointCloud

Discover Add Layers

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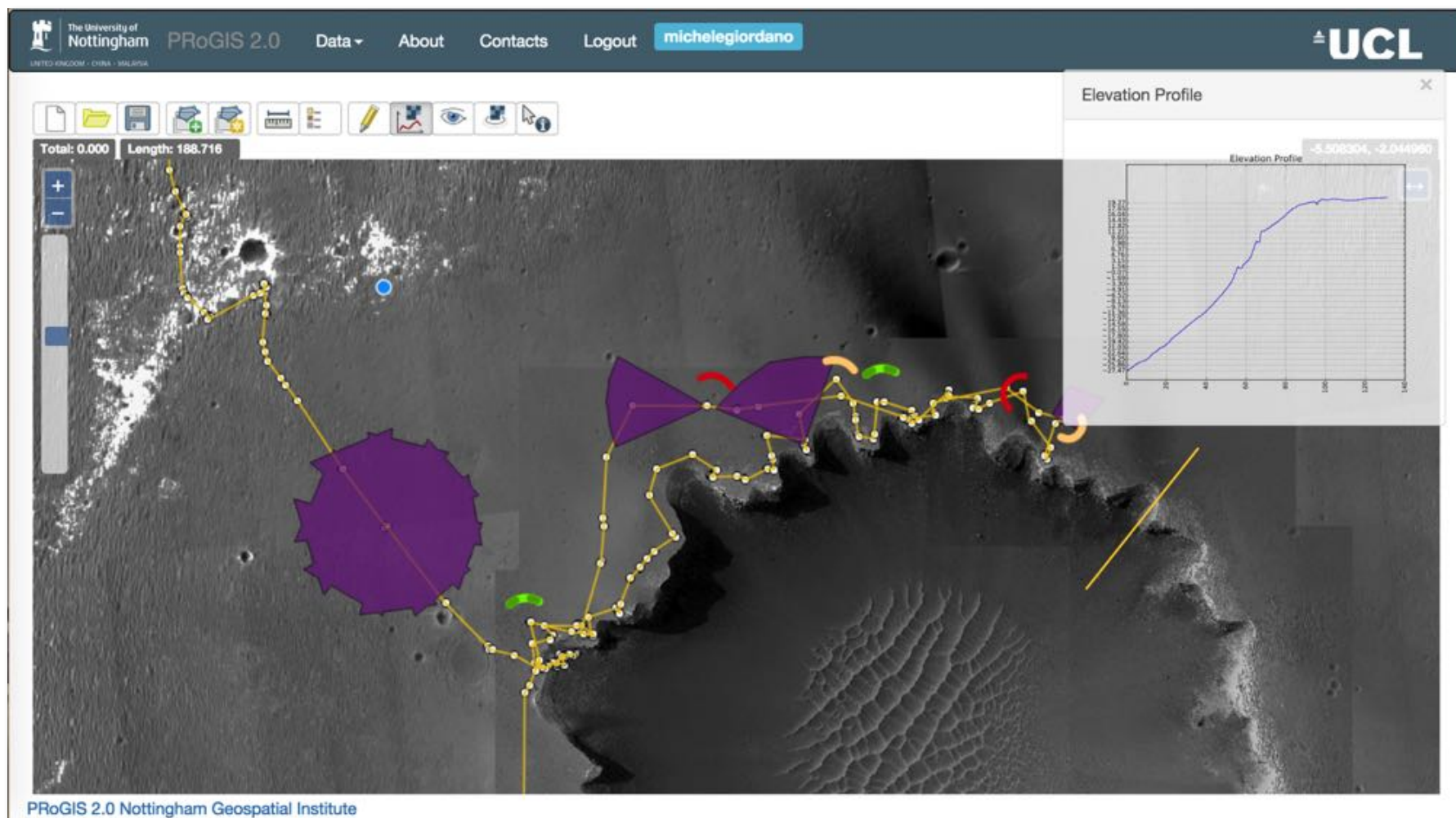
Annotation tools



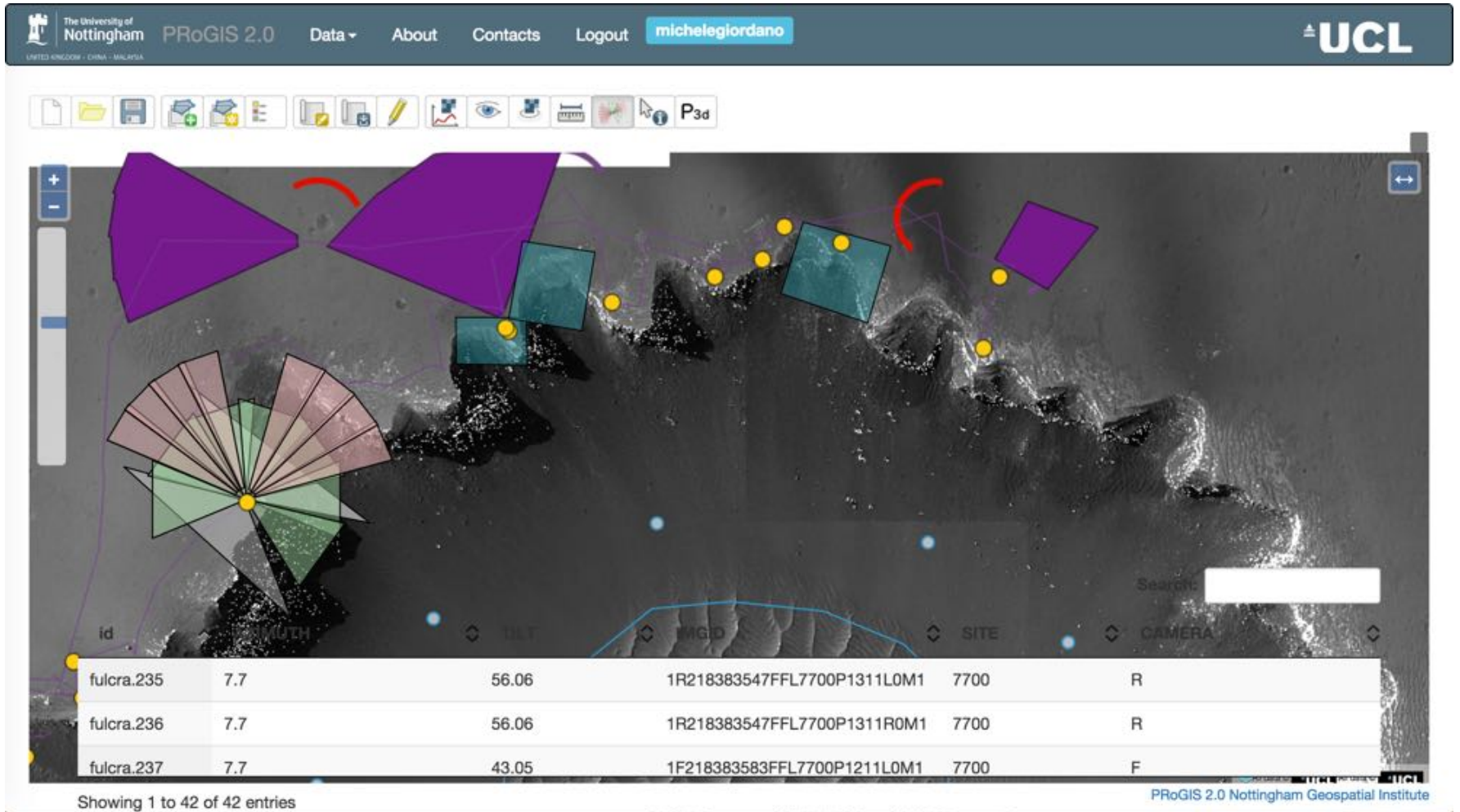
Version: 15/07/2015

michele.giordano@nottingham.ac.uk

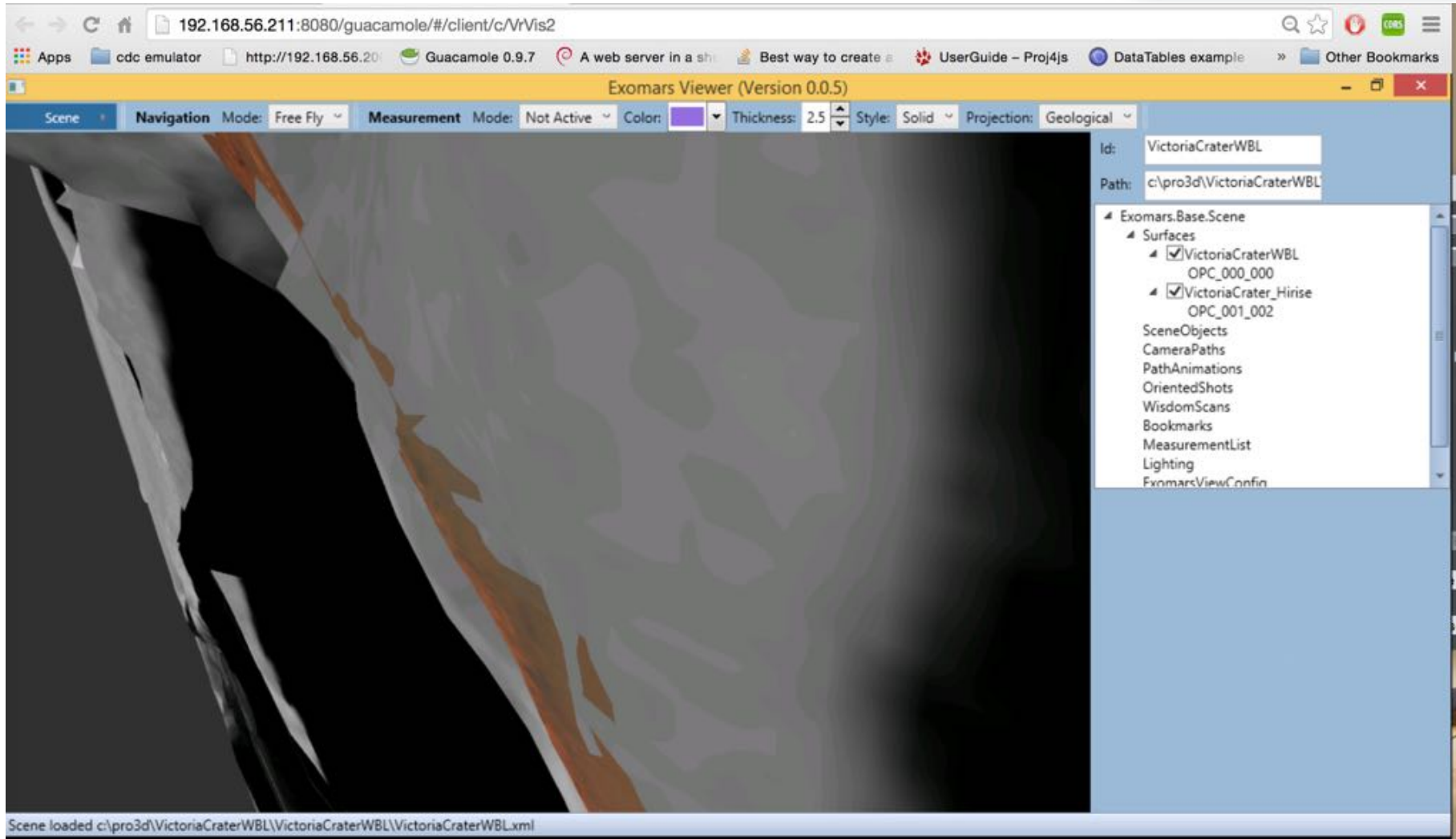
Elevation Profile Tool



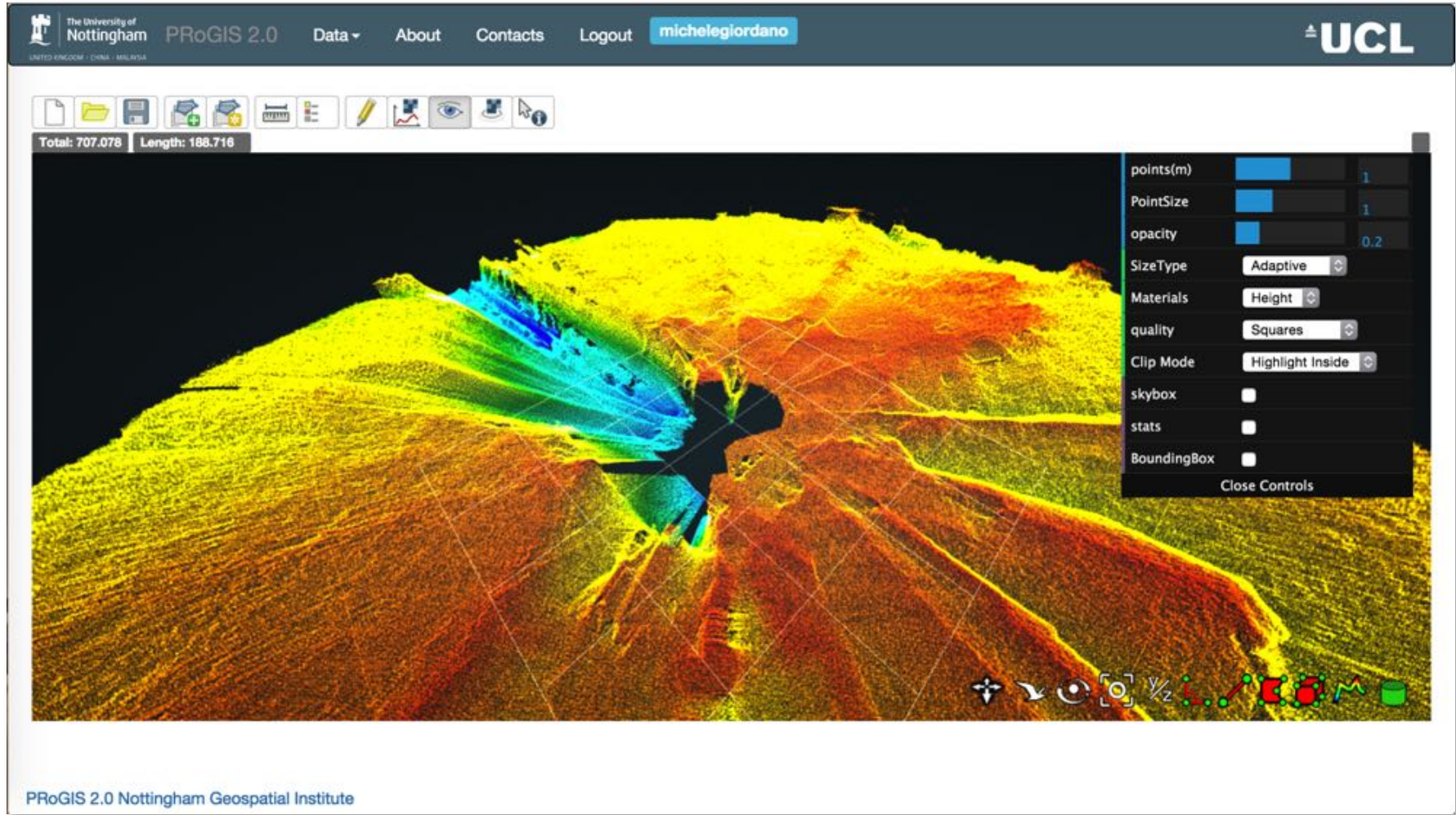
Fulcra Viewer



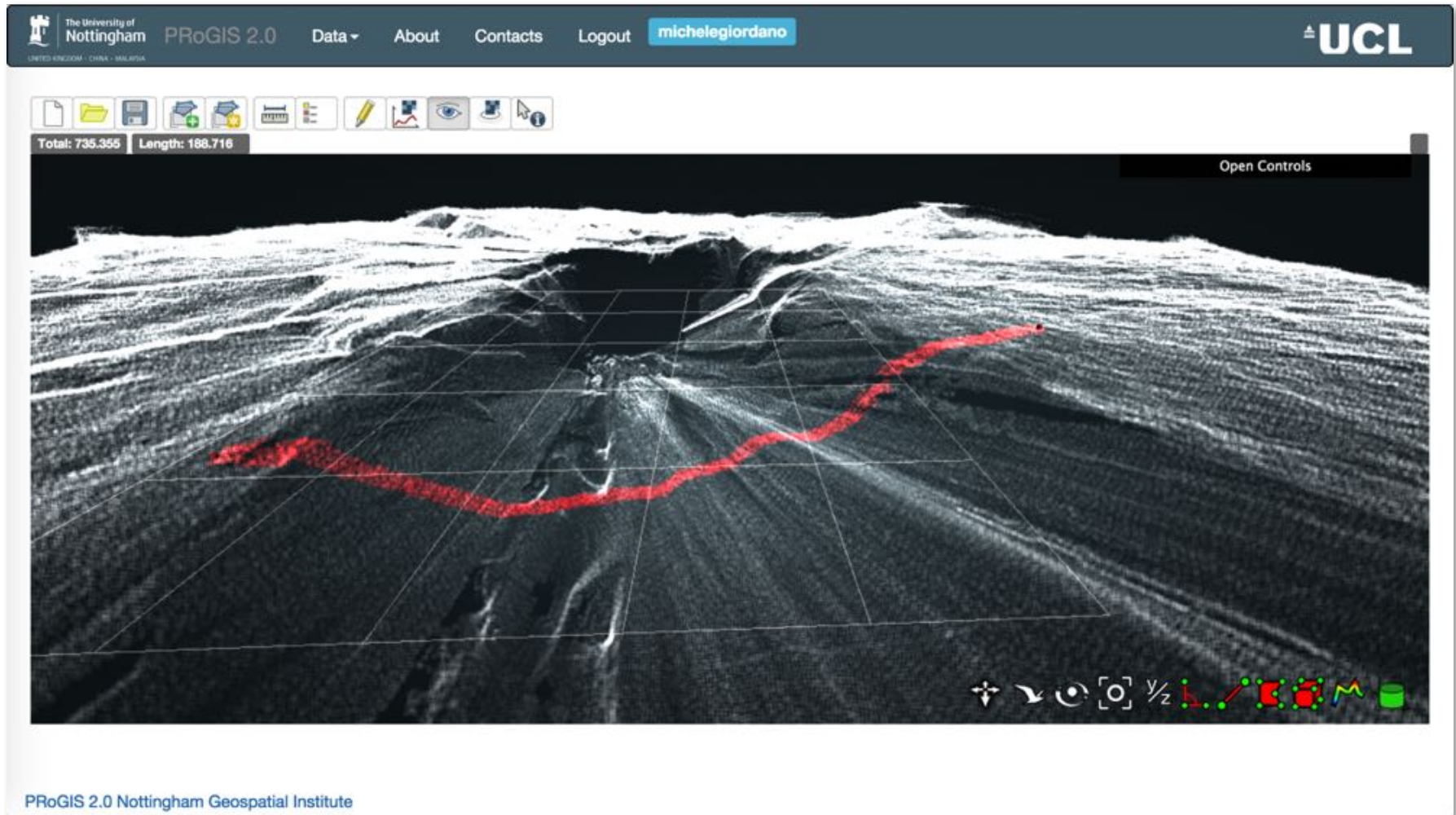
PRo3D Viewer



Point Cloud Representation



Point Cloud Tools



Panorama tool

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