

**Mr. Javier Canete V., MSc** ([javierc.geo@gmail.com](mailto:javierc.geo@gmail.com))

## Qualifications

2014 - Master of Science (Geography) "Fan-Delta progradation following 2008 Chaitén Volcano eruption, Chile", University of Auckland.

2012 - Postgraduate Diploma in Science (Geography), University of Auckland.

2011 – Foundation Certificate in English Advanced level, University of Auckland.

2008 - Bachelor of Science (Geography and Urban Planning), University of Playa Ancha, Chile.

## Work Experience

- **Geography Specialist**, Chilean National Heritage and Culture Institute of Ministry of Culture and Arts (CMN), Government of Chile.
- **Geography Lecturer**, Vertical Professional Institute, Chile.
- **GIS Consultant**, Voyager Ltd, Chile.
- **GIS Consultant**, Sendero Señalado National Parks Project, Chile.
- **Surveyor and data analyst**, T2 Traffic and Transportation Engineers Ltd, New Zealand.
- **GIS Consultant**, Info Service Ltd, Chile.
- **Bathymetric Data Processor**, Chilean Hydrographic and Oceanographic Service (SHOA), Chile.

## Relevant Key Capabilities

- Extensive expertise in the use of GIS for different platforms including Geomorphology, Hydrology, Urban Planning and Environmental Studies, data collection and spatial analysis, interpretation and reporting.
- Participated in a wide range of public and private projects including Bathymetric surveying and processing, Urban cadastral mapping, Geomorphology research, LIDAR data analysis, Nautical data processing, GPS data collection and Aero photogrammetry.
- Drone Operator, including data processing and 3D modelling expertise.
- Preparation and editing of web maps, use of Collector and Survey123 for cadastral surveying and mapping, land use, geomorphology and ecological assessments, and spatial analysis.
- Collaborative decision making with a diverse range of stakeholders in environmental projects including Conservation Areas, National Parks, city planning, transport planning, marine assessment, etc.
- Fieldwork capabilities in urban, rural, montane, and coastal environments.

## Recent Significant Jobs

### **Geography Specialist - Chilean National Heritage and Culture Institute (CMN), Ministry of Culture and Arts, Government of Chile (February 2016 – December 2018)**

- Extensive use of ArcGIS and geotools to manage and update the official national monuments database, this included historical and archaeological sites, geoanalysis of the location and boundaries of significant national sites.
- Expertise in the use of ESRI tools such as Collector and Survey123. This included developing and designing web maps, surveys, and training others to use these tools for the collection of field information and surveys of public monuments.
- Aero photogrammetry; Drone data collection and operation in the field; 3D modelling; analysis of environmental conditions; updating geodatabases; analysis of cartographic information; planning site visits; and collection of GPS information in the field.
- Managing and maintaining relationships on a range of cross-disciplinary projects with other professionals from the Department of Architecture, Archaeology, History, and Environment within CMN.

- During 2016 and 2017 I was Project Manager for “The North and Centre of Chile Public Monuments survey”. This included the publication of two E-books for the public and educational purpose: (<http://www.monumentos.cl/publicaciones/libros/norte-chile-traves-sus-monumentos-publicos> and <http://www.monumentos.cl/publicaciones/libros/centro-chile-traves-sus-monumentos-publicos>).

#### **Geography Lecturer - Vertical Professional Institute (March 2016 – December 2018)**

- Lecturer at Vertical Professional Institute, which specialised in Ecotourism. In 2016 and 2017 I taught two papers per semester; Geomorphology; and Environmental Sciences; Geography and Climate; and, Environmental Management, respectively. In 2018 I also taught the Dissertation paper for final year students.

#### **Private Consultant - Voyager Engineering Ltd. (January 2017 – December 2018)**

- In 2017 I was actively involved assisting the company as a GIS specialist with the “Marine technical report TCVAl”. This study was carried out firstly, to quantify the impact of drilling at Valparaiso City’s Port and, secondly identification of the most appropriate offshore areas where to deposit the resulting drilled sediments. During this project, marine life distribution, seafloor depth, and heavy metal contents were geo-analysed to obtain the most suitable locations.
- In 2018 I worked on the project “Engineering design of Energy transmission line 1x220kV for Arauco Wind Farm Plant”. Staff engineers and myself analysed topographic information to best determine the location of Power towers connected to the wind farm and map the results.

#### **Private Consultant - Sendero Señalado National Parks Project (October 2016 – March 2018)**

- Worked on determining the location of the main tracks, sites of geological interest, and main natural attractions inside National Parks to establish where new infrastructure could be built and “on track” information points describing each site to assist visitors.
- Provided technical contents for the publication “A guide to enhance the value of natural protected areas (ASP)” published in 2017.

#### **Technical Assistant at T2 Traffic and Transportation Engineers Ltd (May 2014 – February 2015)**

- I held a temporary position with T2 Engineers where I developed experience in transport surveying, database organisation and analysis, Auckland Transport Resolution plan processes, including a broad understanding of reporting for different scales of projects.

#### **GIS Consultant - Info Service Ltd (June 2011 – September 2011)**

- Worked on the HydroAysén dam project in Patagonia. This involved creating and managing a GIS project compiling the datasets provided, which included aerial imagery, nautical charts, bathymetric surveys, and land use information.
- Undertaking spatial analysis and mapping the seafloor topography to estimate the location of the transmission line.

#### **Bathymetric Data Processor - the Hydrographic and Oceanographic Service of the Chilean Navy (SHOA) (May 2008 – September 2010)**

- Represent SHOA at the Chilean Continental Shelf Committee.
- Prepare hydrographic plans to undertake coastal and marine echo sounding campaigns.
- Echo sounding data collection, processing, and analysis of bathymetric information to create seafloor maps.
- Reporting the main findings and results provided by spatial analysis of the information.

#### **Software Proficiencies**

Microsoft Office, ArcGIS 10.5, ArcGIS online and apps Collector and Survey123, ArcGIS Pro, Global Mapper 18.x, ERDAS, Agisoft Photoscan Pro, Pix4D, AutoCAD, CARIS HIPS & SIPS. Remote Piloted Aircraft System (RPAS) operator with two years of licensed experience in Chile.

References available upon request