

# FRANCISCO VARGAS VEGA

Veterinarian - Statistics - Data Science

+56 9 75750963 | [franciscoalberto.vargas.vega@gmail.com](mailto:franciscoalberto.vargas.vega@gmail.com) | [LinkedIn](#) | [GitHub](#)

## PROFESSIONAL SUMMARY

---

Veterinarian with 6 years of accumulated experience in Aquaculture, Veterinary Clinical Trials, Data Analysis, and Market Research, graduate student from Pontificia Universidad Católica de Chile's Masters in Statistics. Competent in salmon weight/feed projections and health, scientific studies designs, and epidemiological, fish production and pharmaceutical market data.

Autonomous, assertive and analytical with a focus in delivering high quality and clean results. Soft skills based on active listening and effective communication. Great ability to adapt to changes in products and projects according to new requirements. Strong capacity for strategic data analysis, either under clear objectives and standards, as well as under exploratory conditions. I've great interest in deepening my knowledge in statistics, data science, biostatistics, epidemiology and health economics.

## EXPERIENCE

---

### Data Management Analyst

June 2022 – Today

*IQVIA - Information Technology • Programming and analysis of Market Research studies.*

*Santiago, Chile*

Programming in R, PHP and JavaScript, as well as analyzing market research studies for the pharmaceutical industry. Development of tools using JavaScript to improve user experience; creating, implementing and executing IT tools to centralize payment information for study participants.

- Reduction of payment information gathering and processing efforts, from manual processing to automated storage.
- Reduction of client waiting time from 3-5 days to 1 for customized solutions, via personalized service using PHP and JavaScript.
- Training the Data Management Chile in data analysis and data wrangling and automated reports using Excel and R, as well as basic PHP programming

### Clinical Trials Assistant

June 2021 – May 2022

*VIRBAC - Pharmaceutical • Coordination of Veterinary Clinical Trials*

*Santiago, Chile*

Responsible for writing, developing and implementation of the base internal documentation of the department through SOPs and manuals. Coordination of experimental phases in clinical trials with external and internal CROs. On-site monitoring of veterinary clinical trials and follow-up of the different phases.

- Autonomous implementation of the department documentation.
- In charge of data migration from server to GCP, as well as organizing all internal documents and creating procedural documentation related to fish health evaluations.

### Salt-Water Site Assistant

September 2019 – January 2021

*MOWI CHILE S.A. - Aquaculture*

*Puerto Montt, Chile*

Responsible for the overall operations and running the assigned Salt-Water site, as well as creating daily data reports and weekly operational requirements.

- Responsible for feeding and weight projections, operational requirements, and legal on-site documentation.
- In charge of on-site salmon harvest procedures, documentation, site traceability and the Health and Safety Programme.
- Responsible for performing necropsies, sea-lice counting and analyzing the site's mortality trends.

### Salt-Water Site Assistant

June 2018 — September 2019

*MULTI X - Aquaculture*

*Puerto Montt, Chile*

Responsible for the daily fish feeding overall operations, creating daily, weekly and monthly feeding data reports, and weekly operational requirements.

- In charge of keeping the site's legal documentation updated and in check.
- Responsible for keeping the site's Health and Safety Programme and its internal registry updated and clear.
- Responsible of daily salmon feeding, daily and weekly production reports, and weight/feed projections.

Responsible for coordination and administrative processes related to closing both sites in parallel.

- Responsible for coordinating the different services and processes related to the opening of a site, as well as preparing the site for receiving smolts (net-pens, cameras, mortality processing and feed).

## ACADEMIC BACKGROUND

---

<b>Master in Statistics</b> <i>Pontificia Universidad Católica de Chile</i>	2023 – 2024 (in progress) <i>Santiago, Chile</i>
<b>Diploma in Biostatistics</b> <i>Pontificia Universidad Católica de Chile</i>	2022 – 2022 <i>Santiago, Chile</i>
<b>Veterinary Medicine</b> <i>Universidad Mayor</i>	2011 – 2016 <i>Santiago, Chile</i>

## TECHNICAL SKILLS

---

### Certifications — Courses — Activities:

- **Geovet Congress – 2016:** Spatial epidemiology, spatial statistics and GIS applications in Veterinary Health.
- **Statistical Modeling and Data Science UC – 2024:** Time series, spatial statistics and uncertainty quantification
- **National Congress of the Chilean Statistics Society invited as speaker – 2024:** Geostatistics, Bayesian statistics, Biostatistics and Epidemiology

### Languages:

- **English** – Native, C2 on IELTS - 2019.

### Software — Technologies:

- **Microsoft Excel** – Advanced
- **R** – Advanced
  - Data Cleaning / Wrangling: dplyr, data.table, base R
  - Data Base usage: SQL, duckdb, DBI
  - Data Visualization: ggplot2, shiny, plotly, highcharter, base R
  - Data Modeling: GLMs, non-parametric statistical models, M. Learning, time series and bayesian statistics
  - Model frameworks: h2o, sparklyR and tidymodels as main frameworks
  - Reproducible research using Quarto / RMarkdown
  - Web Scraping
  - R code profiling and optimization
- **LaTex, Python, SQL, Power BI** – Intermediate
- **JavaScript, HTML, CSS, PHP, Git** – Basic