“A skilled analyst with a personal passion for logical problem solving, always looking for creative solutions towards achieving performance improvements. Demonstrating adaptability and determination, excellent time management skills, assertiveness and enthusiasm which has increased profits and lower costs for the company I worked for, achieving organisational goals “

**General Skills:**

* Extensive experience working with regression models in chemical kinetics & large proteomics data sets.
* 4 years’ experience in regulation and compliance. Installation and commissioning of protocols to minimize the risk of contamination, amplification, transmission and exposure to harmful bacteria in water and food.
* Contributed to a scientific paper about interaction of surfactants with DNA or covariance matrix via RHadoop.
* Liaise/engage with new and existing clients to further develop new projects and protocols with a view to expanding the existing portfolio of clients and works.

**IT Skills:**

* Database software: exceptional knowledge of MS Excel and Access including use of advance filters/sorting and functions to clean and manipulate data. Entry and maintenance of protein mass spectrometry data in SQL, setting up R to connect to SQL Server.
* Statistical software: excellent use of R /Rstudio for experimental design, statistical analysis and data visualization: development of regression models based on proteomics data via Hadoop and MPI cluster in a R environment using packages as “pbdr” and “Rhadoop”. Knowledge of SAS, SPSS, sigmaplot and Mathlab.
* OS: MS windows / Linux.

**Education:**

September 2016 **Postgraduate diploma in Biostatistics** UOC “Universitat Oberta de Catalunya”

Biostatistical design and analysis, R programming, regression models, survival analysis and multivariate analysis.

Final Project: “Regression methods with big(proteomics) data in R” (comparing Hadoop/MapReduce and MPI via R)

July 2012  **BSc & MSc Science Chemistry** University of Seville

Final project in engineering: “Process optimization: experimental design, simulation and experimentation with

heat exchangers, absorption columns and mixers.”

**Experience:**

|  |  |
| --- | --- |
|  | **Water Hygiene Auditor** (London)  September 2015 – Present  Undertaking internal audits and producing reports and schematics based on the data. Preparing Health & Safety environmental strategies and developing internal policies in order to minimize the risk of harmful water bacteria in line with HSG 274. |
| Highlights:   * Promoted within 12 months to a senior position. * Achieving the target of 600 reports in 3 months. * Developing new relationships and maintaining existing ones. * Relevant knowledge and experience to be able to provide the right level of support to starters. * Completion of Level 1 & Level 2 City & Guilds:” The Control of Legionella Bacteria in Water Systems”. * Providing accurate information to internal divisions for budgeting and finance purposes. | |

|  |  |
| --- | --- |
| **Relocating to the UK** | **November 2014 – September 2015** |

|  |  |
| --- | --- |
|  | **Microbiology Laboratory Manager** (Spain)  November 2012 – November 2014  Microbiology lab specialised in drinking and waste water quality control. Liaising with regulatory bodies to ensure the customer compliance within statutory regulations and responding to regulatory inquiries from the authorities. |
| Highlights:   * Validation and statistical analysis to evaluate new and existing methodology. * Maintained and updated the Quality System in accordance with ISO17025 and helping maintain   certification to ISO9001 and ISO14001.   * Researched new techniques and analyst methods. * Prevention principle for occupational safety & health. * Established HAPPC’s as a new business model in line with ISO 22000 and other local regulations. * Financial management, working towards reducing costs and results of an increase of profits of 36%. | |

|  |  |
| --- | --- |
|  | **Researcher** (Spain)  September 2011 – November 2012  Working within the Department of Physical Chemistry investigating the interaction of two cationic gemini surfactants with DNA. Processing statistical data and use of other numerical skills in the research projects, specifically statistics and data management R and SQL. |
| Highlights:   * Data management and analysis: setting up R to connect to SQL Server. * New protocol for Melting Temperatures, resulting in 60% time savings. * Publication: Colloids and Surfaces B: Biointerfaces 118(2014) 90-100. * Communication: 8th International Conference on Chemical Kinetics (ICCK2013) poster.   Role of the Spacer in the interaction of 12 –s -12 Gemini Surfactants to DNA. | |

**Publications:**

30/MARCH/2014 J. P. García, E. Marrón, P. Lopez-Cornejo, V. I. Martín and M. L. Moyá | “CONFORMATIONAL CHANGES OF DNA IN THE PRESENCE OF 12-S-12 GEMINI SURFACTANTS (S = 2 AND 10). ROLE OF THE SPACER’S LENGTH IN THE INTERACTION SURFACTANT-POLYNUCLEOTIDE” | Colloids and Surfaces B: Biointerfaces 118(2014) 90-100.

Nov 2016 Script to perform covariance’s matrix via RHadoop:

<https://github.com/juagarmar/Cov-Cor-matrix-via-Rhadoop>/

<https://github.com/juagarmar/linear-regression-via-Rhadoop/>

**Volunteering:**

|  |  |
| --- | --- |
| "Missioners of Charity" Delhi, India  Jul–Aug 2009  Volunteer work in a shelter house.  Clinical analysis assistant. | “Missionaries of charity”, Switzerland, Lausanne  Aug-Sept 2007  Volunteer work with Immigrant and refugee children. Physical activity for health and integration. |

**Licence:** Full clean UK driving licence.

**Languages:** Fluent in English and Spanish.

**References:** Name and address of referees are available on request.