VALERIA ROLLE

Biostatistician

CONTACT

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EDUCATION

2018 Master's degree in Biostatistics
Universidad Complutense de Madrid

2017 Degree in Biology
Universidad de Oviedo

SKILLS

· Proficiency in statistical software packages (R expert, Stata user-level)

· Statistical analysis methods and tools (survival analysis, regression analysis, mixed models, GEE, Bayesian methods, random forest, elastic networks, etc.)

· Expertise in data preprocessing, cleaning, transformation and pipeline creation

· Strong problem-solving skills and ability to think critically

· Excellent written and verbal communication skills

· Attention to detail and commitment to data quality and accuracy

WORK EXPERIENCE

Research assistant & Data analyst

February 2021 - Present at Hospital Universitario de Torrejón (Remote)

- Managed and analyzed data from large cohorts in national studies, providing statistical support to decision-making processes.
- Created pipeline to automatically clean, pre-process, and audit several parameters, improving data quality and accuracy for several national and international research projects.
- Collaborated with physicians and researchers to apply statistical analysis in the design and implementation of a national screening program for obstetrics.
- Provided insights from data analysis for several other obstetrics-related projects.

Biostatistician

May 2018 - March 2023 at Foundation for Biomedical Research and Innovation in Asturias

- Collaborated with doctors and researchers to conduct statistical analysis for diverse range of projects, including metaanalysis, clinical trials, observational studies, and ecological studies.
- Utilized skills in survival analysis, mixed and multilevel models, joint models, Bayesian methods to support successful completion of numerous projects.
- Developed an R package to streamline daily job functions .

Visiting researcher

September 2021 - December 2021 at University of Oulu (Finland)

- Collaborated with a team of researchers to develop and optimize a neural network model for analyzing extracellular matrix data in cancer research.
- Conducted thorough data analysis using lasso and elastic net regression to identify key variables and features for the neural network model.

PUBLICATIONS

2023
- Performance of first-trimester combined screening of preterm pre-eclampsia: results from cohort of 10 110 pregnancies in Spain. Ultrasound in Obstetrics & Gynecology.
- Incidence of stillbirth: effect of deprivation. *Ultrasound in Obstetrics & Gynecology*.
- Models based on PlGF in combination with maternal factors +/- other biomarkers achieved the highest DOR for the prediction of early preeclampsia compared to PlGF alone or sFlt-1/PlGF ratio. *American Journal of Obstetrics and Gynecology*.
- Intrapartum ultrasound in maternal lateral versus semi-recumbent posture. A repeated measures study. *European Journal of Obstetrics & Gynecology and Reproductive Biology*.

2022
- Association of the genetic variation in the long non-noding RNA FENDRR with the risk of developing hypertrophic cardiomyopathy. *Life*.
- IL6 gene polymorphism association with calcific aortic valve stenosis and influence on serum levels of interleukin-6. *Frontiers in Cardiovascular Medicine*.
- SARS-CoV-2-specific antibodies and neutralization capacity in breast milk following infection vs vaccination. *Ultrasound in Obstetrics and Gynecology*.
- Performance of screening strategies for latent tuberculosis infection in patients with inflammatory bowel disease: Results from the ENEIDA registry of GETECCU. *Journal of Clinical Medicine*.
- Analysis of extracellular matrix network dynamics in cancer using the MatriNet database. *Matrix Biology*.
- Maternal Race and Stillbirth: Cohort Study and Systematic Review with Meta-Analysis. *Journal of Clinical Medicine*.

2021
- A comprehensive formula for computing corrected QT intervals in patients with wide QRS. Journal of Electrocardiology.
- Risk factors for preeclampsia: Results from a cohort of over 5000 pregnancies in Spain. Maternal-Fetal Medicine.