# ANGEL MARY GEORGE

**PhD Student, Trinity College, Dublin**
**Grade V Data Manager- STTAR Covid Biobank**
**St James Hospital, Dublin**
**MSc Statistics l Data Analyst**
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**DATA MANAGER | DATA ANALYST | QUALITY CONTROL ASSOCIATE|**

## SUMMARY OF PROFILE

» Currently pursuing PhD under the supervision of **Prof. Mark Little** (Trinity College Dublin) and **Prof. John D Kelleher** ( Department of Computer Science, Technical University Dublin).

» My research study targets the development of a clinical decision support tool that personalizes the immunosuppressive drug(ISD) therapy in autoimmune disease(Anti neutrophil Cytoplasmic Associated Vasculitis).

» By using a novel semantic web technology, we will integrate clinical, patient app derived and multi model biomarker data streams to generate explainable machine learning models that predict the risk of flare.

» These will inform the physician about increasing ISDs or indeed, discontinuing them altogether.

» This study is funded by D-Real, SFI(Science Foundation of Ireland)

» Member of Prof Mark Little's **PARADISE** team, it's a team of doctors and statisticians working together for ANCA Vasculitis patients using the Rare Kidney Registry biobank datasets.

» **Masters in Statistics, Knowledgeable and dedicated Data Manager, Data Analyst and Quality Control Associate** with a proven history of working in the health sector and an e-learning industry. Started the career as a data analyst, worked on predictive modelling, data visualisations, segmenting and investigating data.

» Flair for adapting quickly to dynamic business environments & adopting a pragmatic approach in improvising on solutions and resolving complex issues of the project while learning new technologies.

» Offers great analytical skills, well-developed communication skills, strong attention to detail, and significant ability to work and perform well in a team; flexible with changing project guidelines.

## WORK EXPERIENCE

**Grade V Data Manager: STTAR (**St James's Hospital, Tallaght University Hospital and Trinity Alliance for Research)
**COVID Bioresource AND Research &Innovation.**
**St. James's Hospital, Dublin**
**March 2022- Present**

- Tracking and recording the COVID patient pathway by collecting, collating, inputting and validating patient data in the appropriate STTAR bioresource registry in a timely and efficient manner.
- Performing basic database administration tasks.
- Developing and operating appropriate data validation scripts and protocols work closely with the STTAR Bioresource  Data Management Group.
- Disseminating summaries of clinical data and providing feedback to relevant personal as required .
- Providing  accurate and complete data support to SJH reports, e.g.: Annual reports
- Acting as a resource for data queries in relation to STTAR Bioresource data.
- Maintaining the correct storage of data and patient confidentiality as per GDPR and good clinical practice guidelines.
- Acting as a resource between STTAR Bioresource data management group and bioresource steering committee.
- Providing logistic and administrative support to the Bioresource committee and the Research & Innovation office.
- Facilitating data sharing agreements in relation to STTAR Bioresource data.
- Maintaining high quality, source verifiable data capture for all patients diagnosed and treated in SJH within the COVID Bioresource registry.
- Performing rigorous audit and validation of data before seeking sign-off of reports.
- Facilitating audits in relation to Bioresource as required.
- Presenting trends in data reports to relevant stakeholders.

## Sales Assistant – Inditex ( Zara- Liffey Valley, Dublin)
### Nov- 2021- Jan 2022

- Maintain and organize the shop floor to always look its best.

- Taking care of customers and upselling.

## Quality Control Associate- Statistics- ANSR Source India Pvt Ltd, Bangalore, India

ANSR Source has 15+ years of experience in developing e-learning solutions to leading universities, corporations, learning

technology companies and publishers. It provides comprehensive project development, content development, and related

services for a wide range of disciplines.

### Employment Duration

- **Quality Control Associate-Statistics**
  Full-time
  Aug 2020 – 2021 July

- **Quality Control Specialist**
  Full-time
  Sep 2019 – Aug 2020

### Key Result Areas:

- Worked for ALEKS under the project GIBBS. ALEKS is a Web-based system and ground-breaking technology developed from research at New York University and the University of California, Irvine.
- Performed Conceptual Testing of Math and Statistic content on a client-specific platform.
- Monitored and verified algorithms, coded questions and lessons for mathematics and statistics using Item Specification Language (ISL).
- Provided test results and defect reports and participated in the analysis of defects pertaining to release quality and prioritization.
- Tracked status of defects and verified resolution during the testing life-cycle.
- Executed Accessibility Testing using a screen reader to make sure the product is ADA compliant.

### INTERNSHIP

**Aeth Analytica, Cyber Park. Kerala, India | Data Analyst Trainee | July 2019 – August '2019**

## EDUCATION CREDENTIALS

### Academics:

- **PhD(2022-Present)|** Department of Clinical medicine, Trinity College, Dublin
- **M.Sc.(Statistics) |** Department of Statistics, University of Calicut, Thenjipalam, Kerala, India**|** Secured 7.95/10 CGPA **|** 2019
- **"Statistical Signal Processing"**, under the guidance of Dr. K. Jayakumar, HOD, Department of Statistics, University of Calicut, 2019
- **B.Sc. (Statistics) |** St. Thomas College, Thrissur, Kerala, India **|** Secured 4.78/6 CGPA **|** 2017
- **"A Study on Musculoskeletal Issues among Nurses in Thrissur City",** under the guidance of Dr. V.M Chacko, Department of Statistics, St. Thomas College, Thrissur, 2017

### Certification:

- **Data Science + |** Aeth Analytica, Cyberpark, Kerala,India**,**2019
- **Certified Data Scientist** (International Association of Business Analytics Certification), 2021
  - Strong statistics training and practice predictive modeling, data processing, and data mining algorithms to solve challenging problems.

### Projects Undertaken:

Done these projects as a part of IABAC certification (International Association of Business Analytics Certification).

### 1.Covid prediction:

- The data was provided for a period of 8 months, from Jan-2020 to Sept-2020.
- The scope of this work was to predict COVID causalities for the different regions with Time series.
- In time series, I had considered ARIMA model to predict COVID cases for 10 regions for each of the three categories(Confirmed, recovered and deaths).
- The 10 regions were selected based on their current COVID ranking in the globe.

- The 10 region are - India, China, US, Brazil, Italy, Spain, Costa Rica, Russia, Afghanistan and Ireland.
- Model used to predict : Time series - ARIMA.

**2. Sales Prediction:**

Client Name : FicZon Inc.( FicZon Inc is a IT solution provider with products ranging from on premises products to SAAS based solutions. FicZon major leads generation channel is digital and through their website.)

- Industry: SAAS.
- ML model Used: XGBClassifier

**3. Flight Fare Prediction**: ML MODELS USED : XGBREGRESSOR, LINEAR REGRESSION, RANDOMFORESTREGRESSOR.

**4. Employee Performance Analysis:** Client Name: INX Future INC, Since the data set is an imbalanced one, used "SMOTE" to make it a balanced data set before modelling the data. Model Used :XGBREGRESSOR

**5. Insurance claim prediction** : Used Random forest classifier model.

## KEY ACHIEVEMENTS

- Accredited with the "**Best Performer of the Month Award" multiple times** at ANSR Source Pvt.Ltd., Bangalore, India
- Attended Communicative English Trainer Program under Communicative English Training Scheme 2017 organised by Additional Skill Acquisition Program(ASAP).
- Successfully served as a Member of Walk with the Scholar Program during 2014-2017.( **Walk With a Scholar (WWS)** scheme proposes to arrange specialized mentoring programs for students in Under Graduate Programs in Arts, Science and Commerce and to provide guidance for their future. Higher Education department of Collegiate Education, Government of Kerala, started this programme in 2015-16 academic year.)

## KEY SKILLS

**IT Skills:**

- **SAS**
- **R Programming**
- **Python**
- **IBM SPSS**
- **Microsoft Office Suite**

## PERSONAL SKILLS

- **Problem solving**
- **Team work**
- **Time management**
- **Project management**
- **Critical thinking**