

# CHARLOTTE SWAVOLA

9 Agnes Villas, Nottingham, UK Phone: (+44)7445 020936 E-Mail: CGSwavola@gmail.com

## PROJECT WORK

- Design, launch, and conduct statistical analysis for multifactorial causality testing using random inference and simple, robust, and binary logistic regression models
- Predictive modelling and forecasting through Supervised/Unsupervised machine learning using Scikit-learn, Pandas, and Tensorflow
- Big Data and Cloud supported query and analysis including pipeline construction and data lake management
- Data Visualization and analysis presentation and personalization
- Natural Language processing including POS tagging, sentiment spectrum analysis, and assembling deep learning algorithms
- Privacy framework classification for experimentation design and user policy impact analysis
- Data and Analytics Tools/Languages: Python, R, SQL, SAS, Hadoop, Hive, Spark/Pyspark, Spark, PySpark, Scala, Tableau, JS/CSS/HTML, Google Analytics, Amazon Web Services

## EDUCATION

**Master of Information and Data Science**  
**University of California, Berkeley**

Projected Graduation **Mar. 2019**

**Bachelor of Arts, Chemistry**  
**Temple University**

**Sept. 2009 – May 2013**

*Director's Honor Roll; Temple Lacrosse, Division I, Atlantic 10 Conference*

## EXPERIENCE

**Photovoltaic Laboratory Coordinator**

**Oct. 2016 – Sept. 2017**

*Heraeus Photovoltaics, Conshohocken, PA, USA*

Coordinate laboratory activities in a research environment including resource and facility management and process improvement. Responsibilities include: Continuous improvement using the 5S/Kaizen lean manufacturing principles. Manage KPI dashboards including collection and analysis of efficiency data to identify improvement targets. Conduct SEM analysis of photovoltaic samples.

**Quality Control Supervisor**

**Mar. 2015 – Oct. 2016**

*Johnson Matthey ECT, Inc., Wayne, PA, USA*

Supervise multiple chemical and engineering testing laboratories to conduct production analysis of catalytic converters. Develop a team of employees and manage documentation and testing databases.

**Process Development Technician**

**Dec. 2013 – Mar. 2015**

*Johnson Matthey ECT, Inc., Wayne, PA, USA*

Engineer coating methods for catalytic converter prototypes.

REFERENCES AVAILABLE ON REQUEST

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## ADDITIONAL SKILLS

- Project management including risk analysis and asset management, team coordination using agile framework, stakeholder presentations, and project planning software
- Advanced chemical and biological analysis techniques including Spectrophotometry, Cyclic Voltammetry, FTIR, Chromatography, and NMR and advanced microscopy techniques including SEM
- Experience in scientific and academic writing
- Conversational Spanish

REFERENCES AVAILABLE ON REQUEST