

# Marco Edward Gorelli

## Education

**MRes, Mathematics of Planet Earth**; 2016-2017; Imperial College & University of Reading

**MSc, Mathematics and Foundations of Computer Science**; 2015-2016; University of Oxford

**BSc, Mathematics with Professional Practice**; 2011-2015; Brunel University London

## Open source (pandas)

- **Volunteer maintainer** since Jan 2020, have reviewed 60+ pull requests
- Hosted pandas sprint at **PyData Festival Amsterdam**, where I mentored 15 attendees. Over the day, they submitted 20 pull requests - for many, this was their first ever open source contribution!
- Added new method `DataFrame.to_markdown`, which was featured in the **v1.0.0 release notes**
- Fixed dozens of bugs, click [here](#) for full list of merged pull requests

## Experience

**Data Scientist at Samsung R&D Institute UK**; Nov18 - now

- Mentored fellow employees by co-organising internal machine learning reading group: presented on SHAP values, markov chains, and bayesian methods
- Improved accuracy/interpretability of hierarchical forecasting models and maintainability of source code (*Prophet*, *statsmodels*, *Jupyter Lab*, *CircleCI*, *pre-commit*, *Google Cloud Storage*, *wily*, *SHAP*)
- Deployed end-to-end web-scraping dashboard, including tests, automated documentation, static type-checking (*Google Cloud Platform*, *streamlit*, *scrapy*, *ScrapingHub*, *pymongo*)
- Deployed end-to-end anomaly detection module for sensor data (*pytest*, *sphinx*, *MongoDB*, *mongomock*, *PySpark*, *AWS EMR+S3*, *Docker*, *mypy*)
- Debugged Python and C++ code, allowing for Python ML model to be reliably deployed to wearable (*Tizen Studio*, *opencv*, *scikit-learn*, *pandas*)
- Passed internal "Advanced Software Engineering Test (C++)" (£500 reward)

**Data Scientist at Sedex**; Jun18 - Nov18

**Data Scientist at Sensium**; Jan18 - May18

**Risk Analyst Intern at General Electric Capital International**; Jun13 - Jun14

## Other achievements

- During BSc: Foster Award for "exceptional mathematical ability", Level2 Award for highest grades
- Kaggle:
  - bronze medal for top 8% solution in *Tweet Sentiment Extraction* competition
  - reached "expert"-tier in discussions forums
- Coursera: "Deep Learning Specialization", "Applied Data Science with Python Specialization"
- Holder of Tutoring Standards' Professional Tutoring Certificate