# **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 98 pull requests and had 41 pull requests merged
- Hosted pandas sprint at PyData Festival Amsterdam, where I mentored 15 attendees (many of whom were first-time-contributors) while they submitted 20+ pull requests
- Added new method DataFrame.to\_markdown (which was featured in the v1.0.0 release notes),
  fixed bugs, enchanced documentation, refactored old code, and clarified error reporting

## 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. Upskilled teammates by delivering internal workshop in pre-commit and on how it leads to more productive code reviews;
- 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*, *opency*, *scikit-learn*, *pandas*)

Data Scientist at Sedex: Jun18 - Nov18

Data Scientist at Sensium; Jan18 - May18

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

### Other achievements

- Kaggle:
  - Competitions expert (currently in top 1% over users):
    - \* top 8% solution in *Tweet Sentiment Extraction*
    - \* top 8% solution in M5 Forecasting Uncertainty
  - Discussions expert
- Passed Samsung "Advanced Software Engineering Test (C++)" (£500 reward)
- Coursera: "Deep Learning Specialization", "Applied Data Science with Python Specialization"
- During BSc: Foster Award for "exceptional mathematical ability", Level2 Award for highest grades