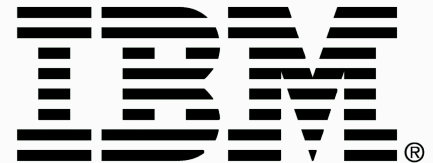


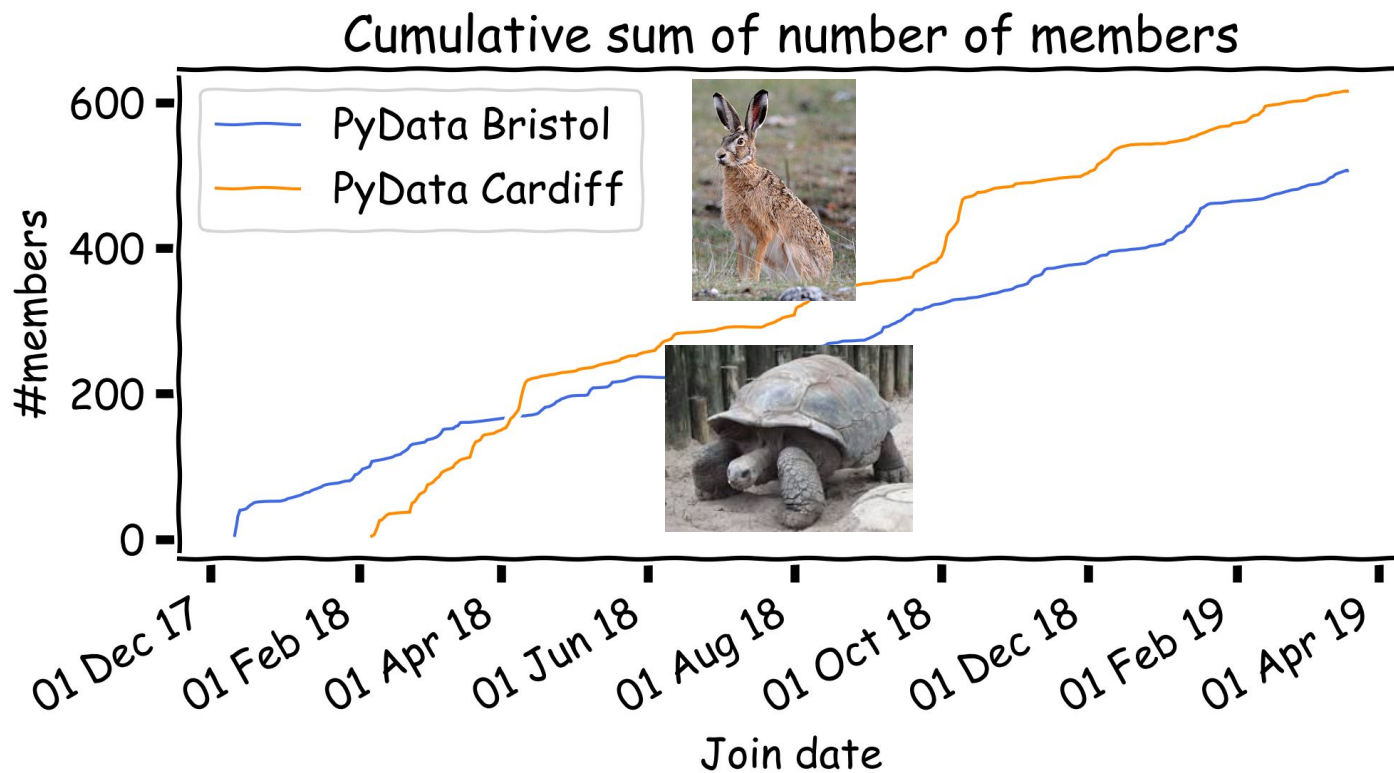
20th March 2019

Welcome from: Miquel Perelló-Nieto,
Frank Kelly, John Sandall & David Greenwood






NUMFOCUS
OPEN CODE = BETTER SCIENCE



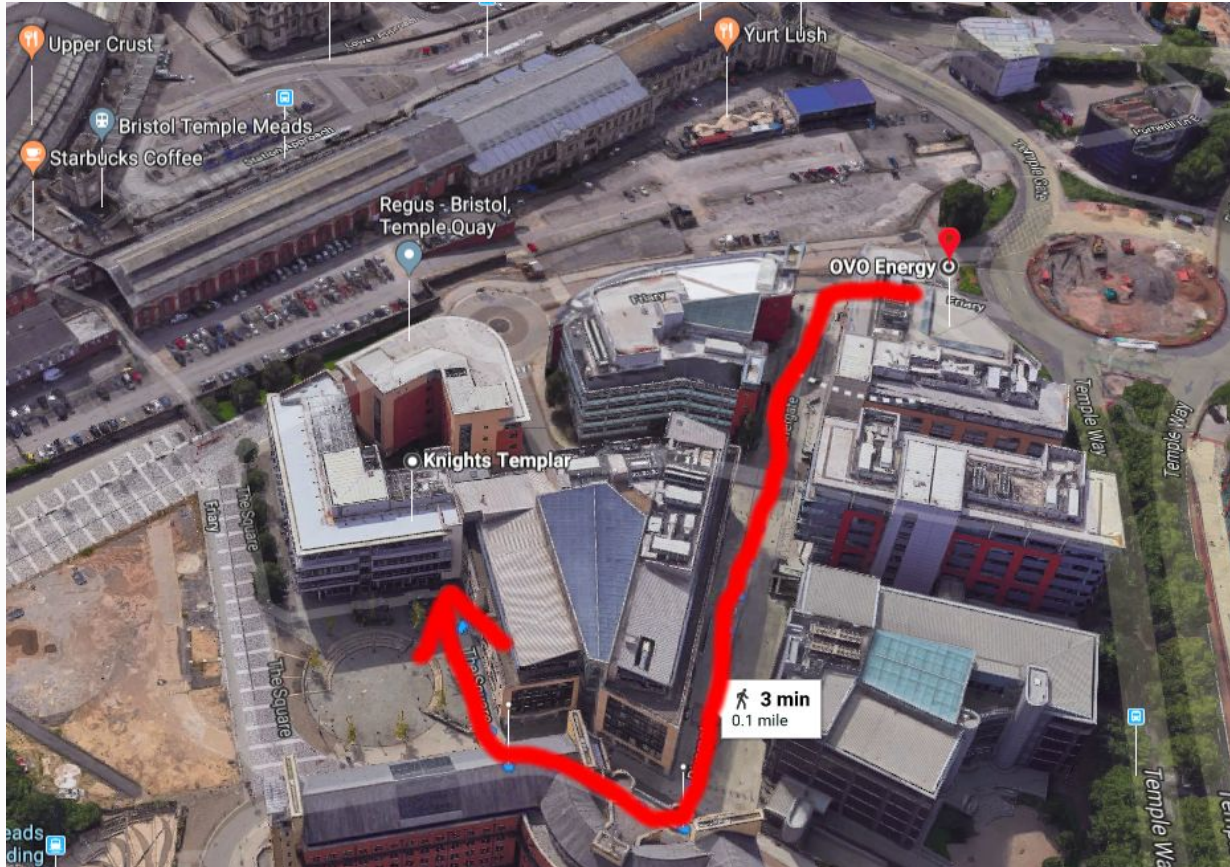
PyData Bristol and Cardiff members



PyData Bristol - tonight

7pm	 Intro PyData Bristol	<i>PyData Organisers</i>
7:05	Artificial intelligence as a 'Knowledge Medium'	<i>Avon Huxor</i>
7:40	 The solar potential of Bristol city; a powerful combination of data science and GIS	<i>Lenka Hašová</i>
7:50	Break	
8:10	 Community announce	<i>PyData Attendees</i>
8:15	From parquet to model/data parallelism with Tensorflow	<i>Florian Dejax</i>
8:50	 Back to the Future? A simple way of inferring the distribution of 'expected' future stock prices	<i>David Greenwood</i>
9:00	 Networking and drinks	

Networking drinks @ 9pm



Upcoming local events

#Our Data Bristol Data Jam (23rd/24th March)

- Open Data Hackathon

#Our Data Bristol Pitching & Commissioning Session (1st April)

- (CFP Deadline 25th March)

#PyData Cardiff *Meetup* (11th April)

- Using Julia & Python together

#PyData Bristol *Meetup* (16th May)

- Medical Image Analysis with Bayesian Deep Learning

#IBM Code Bristol *Meetup* (21st May) at University of Bristol

- Explore UK Crime Data with Pandas and Geopandas

#IBM Code Bristol *Meetup* (23rd May) at University of Bristol

- Audio Classification with Convolutional Neural Networks

Bristol Data Jam 2019

2-day hackathon 23rd & 24th March 2019

“make a bit of magic for Bristol.”

“Together we will develop projects that unite great ideas, awesome digital and creative skills with open data (powered by the Bristol Open Data Platform and the Bristol API).”

- Technical support & talks
- Free food and drinks
- Prizes (**£1500** at pitching event)
- Open to techies and non-techies



<https://www.eventbrite.co.uk/e/bristol-open-data-jam-hackathon-tickets-57457934228>

PyData Amsterdam 2019 | May 10 - 12th

Tutorials @ GoData Driven | Conference Talks @ Booking.com



PyData London 2019 | July 12 - 14th

Tutorials & Conference Talks @ Tower Hotel



Call for Proposals

PyData brings together analysts, scientists, developers, engineers, architects and others from the data science community to discuss new techniques and tools for management, analytics and visualization of data. PyData welcomes presentations focusing on Python as well as other languages used in data science (e.g. R, Julia). Presentation content can be at a novice, intermediate or advanced level.

First-time speaker: Click [here](#) for more information about our speaker mentorship programme

Proposal Deadline: 19 April

Conference Dates: Fri, July 12 - Tutorials; Sat+Sun July 13-14 - **Main Conference**

Venue: Tower Hotel, St Katharine's Way, London E1W 1LD

[Submit a new proposal](#)

<https://pydata.org/london2019/cfp/>

Diversity Scholarships

One of PyData's goals is to increase awareness and excitement around opportunities for underrepresented groups in software engineering and data analytics.

Please note scholarships *do not cover travel and lodging costs*.

Apply below:

[PyData Amsterdam](#)

Diversity Scholarship Application

[PyData London](#)

Diversity Scholarship Application



The bimestrial package: "DEAP"

Framework for genetic
algorithm optimisation
problems

<https://github.com/DEAP/deap>

```
import random
from deap import creator, base, tools, algorithms

creator.create("FitnessMax", base.Fitness, weights=(1.0,))
creator.create("Individual", list, fitness=creator.FitnessMax)

toolbox = base.Toolbox()

toolbox.register("attr_bool", random.randint, 0, 1)
toolbox.register("individual", tools.initRepeat, creator.Individual, toolbox.attr_bool, n=100)
toolbox.register("population", tools.initRepeat, list, toolbox.individual)
```

```
pip install deap
```



- Evolution strategies (including CMA-ES)
- Multi-objective optimisation (NSGA-II, SPEA2, MO-CMA-ES)
- Coevolution (cooperative and competitive) of multiple populations
- Parallelization of the evaluations
- (and more)

Participate!

- PyData is community-driven
- Share your knowledge (novice to advanced) via a talk
<http://bit.ly/pydata-bristol-talk-proposal>
- Propose interesting discussions
- New data analysis tools? New trends?

Contact us!

- @John_Sandall
- Miquel (@PerelloNieto)
- Frank Kelly (@norhustla)
- David Greenwood (@dsg22)



Miquel



John



Frank



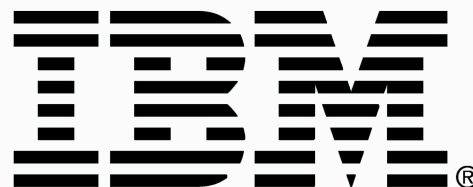
David



Thanks to all attendees and sponsors!



- Alexander Goodanew
- Luke Johnson
- Graeme Taylor
- James Yarrow
- And others



- Margriet Groenendijk

Do you want to be a sponsor?
Come and talk to us.