22nd PyData Bristol

27th April 2023

Frank Kelly, Valerio Maggio,
Neil Andrassy, Alon Samuel, Alistair Rogers

NUMFOCUS
OPEN CODE = BETTER SCIENCE

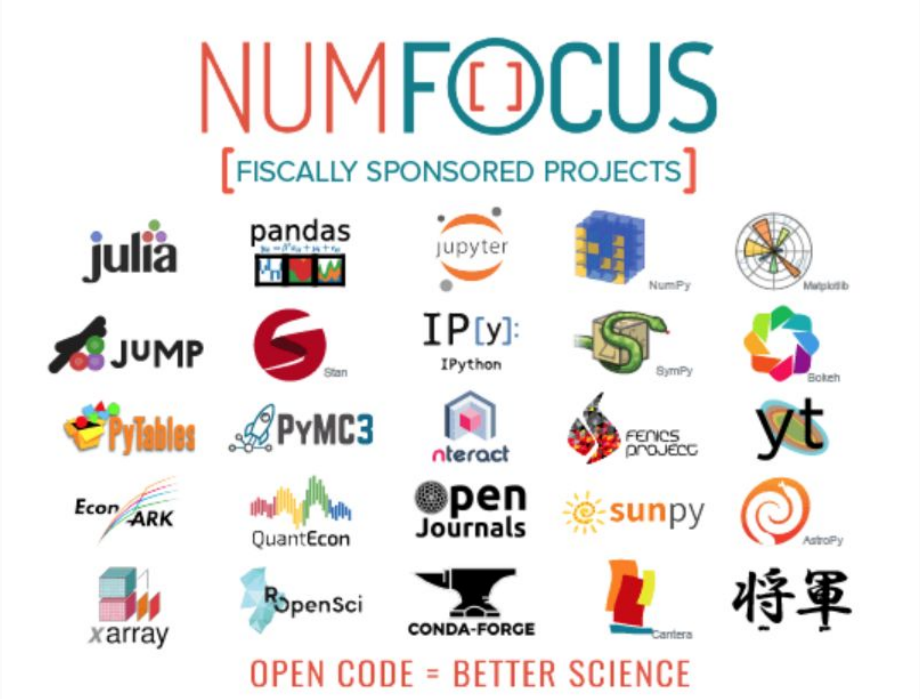
cookpad

ADLIB

NumFocus: Open Code = Better Science

- Non-profit supporting key open source scientific computing projects
- Sponsored projects include Jupyter, Pandas, NumPy, MatplotLib

- PyData, community educational and engagement programme



https://numfocus.org/

CONDA

spyder

CuPy

PyData

NUMFOCUS
OPEN CODE = BETTER SCIENCE

Members	Groups	Countries
201,253	213	71

PyData Bristol: Established 2018, 1,013+ members!

The organisers

New

James
@Yarrow

Lenka
@LenkaHas

Alistair
@alistairlr112

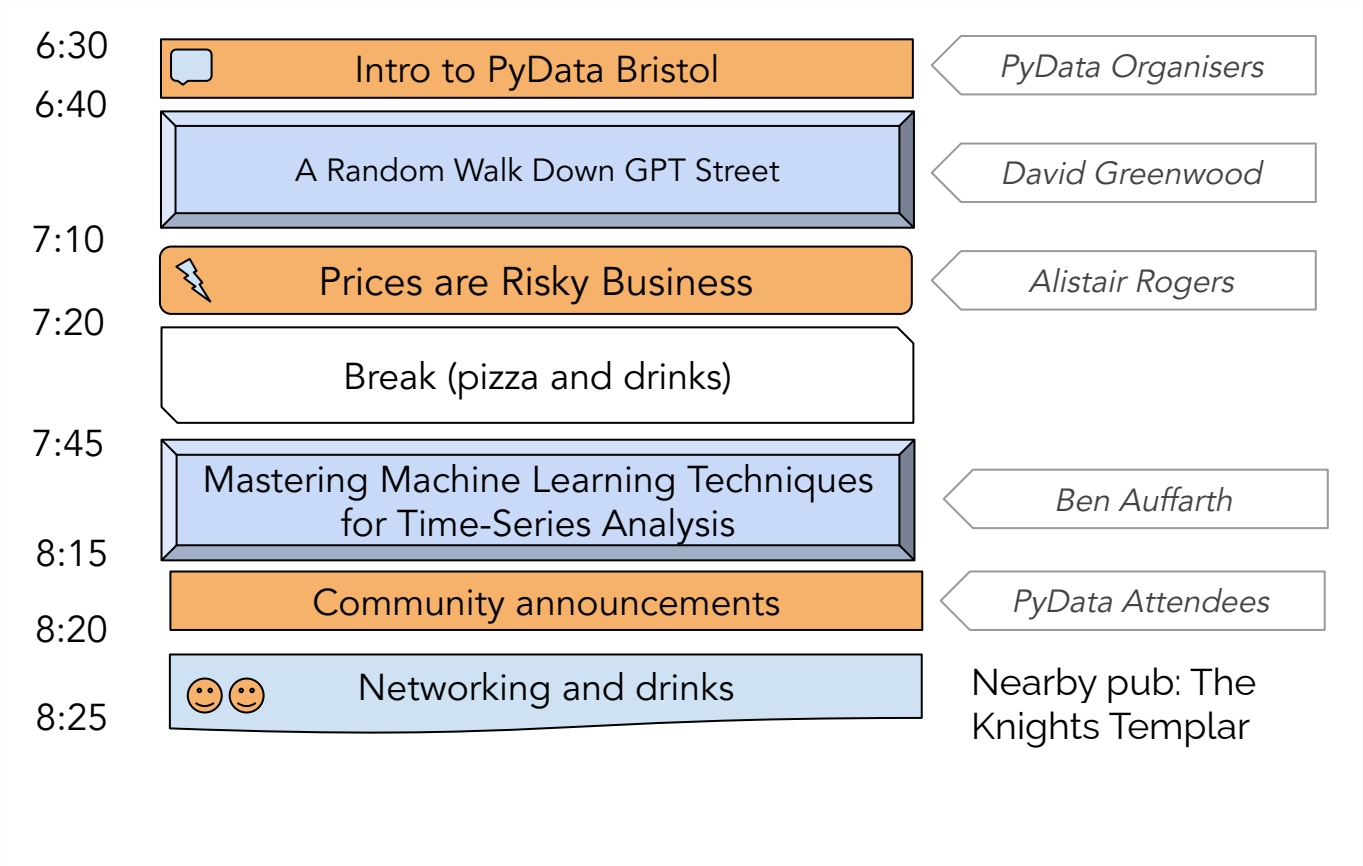
Valerio
@leriomaggio

Frank
@norhustla

Neil
@n_andrassy

Alon
@AlonSamuel1

PyData Bristol - Event tonight



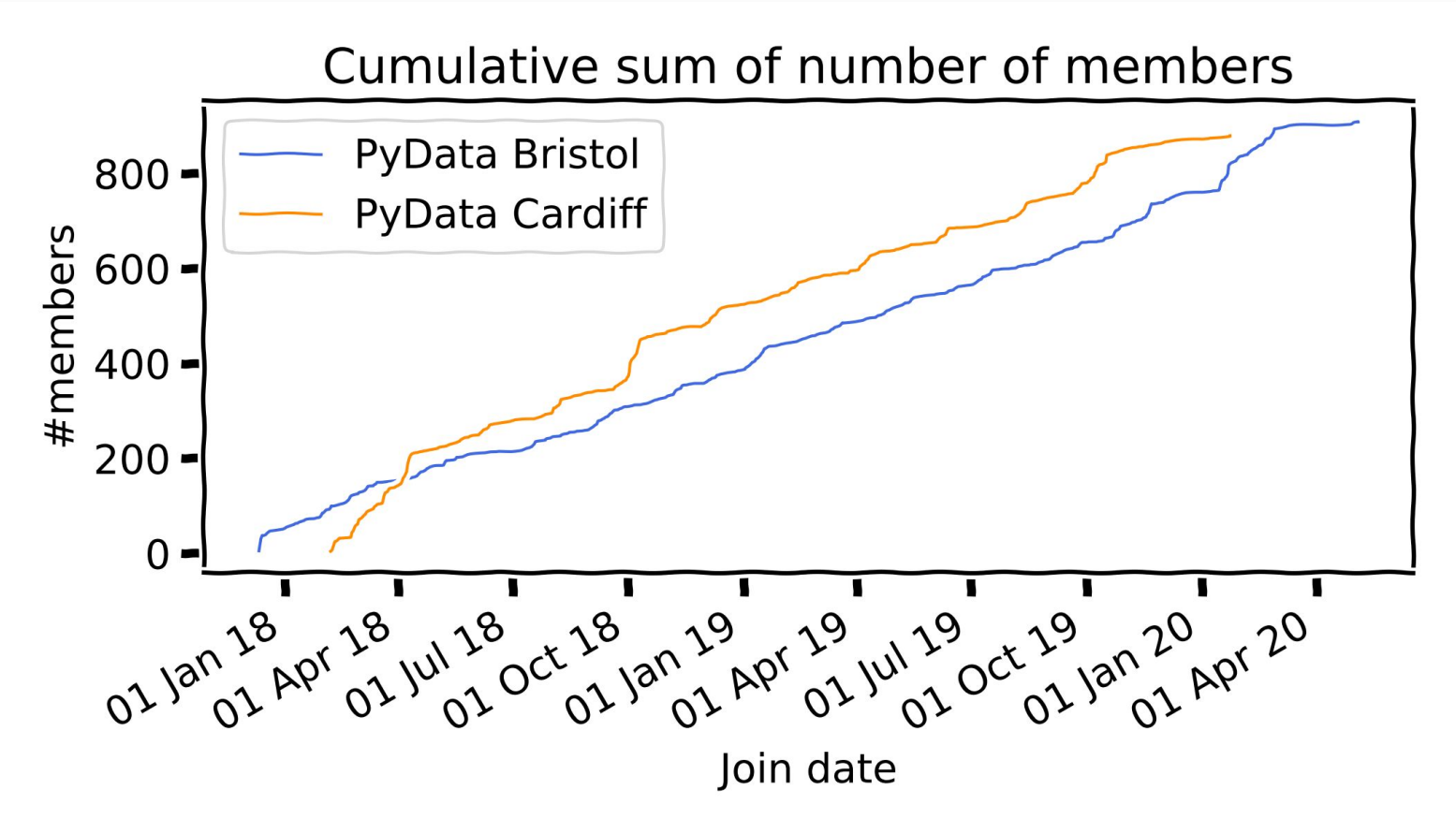
Speaking @ PyData Bristol

https://bit.ly/pydata-bristol-speaker

What to speak about @ PyData Bristol?

productionising
building
software
machine
feature
people
manipulating
development
mistakes
packages
mlops
processing
implementations
ai
projects
raster
satellite
time
churn
new
case
non-mainstream
learning
pipelines
developing
etc
active
using
production
cloud
learnt
data
neural
healthcare
made
geotiff
big
python
ml
science
series
model
talking
ways
eg
insurance
technologies
nerfs
stuff
stores

PyData Bristol members



NumFocus Updates

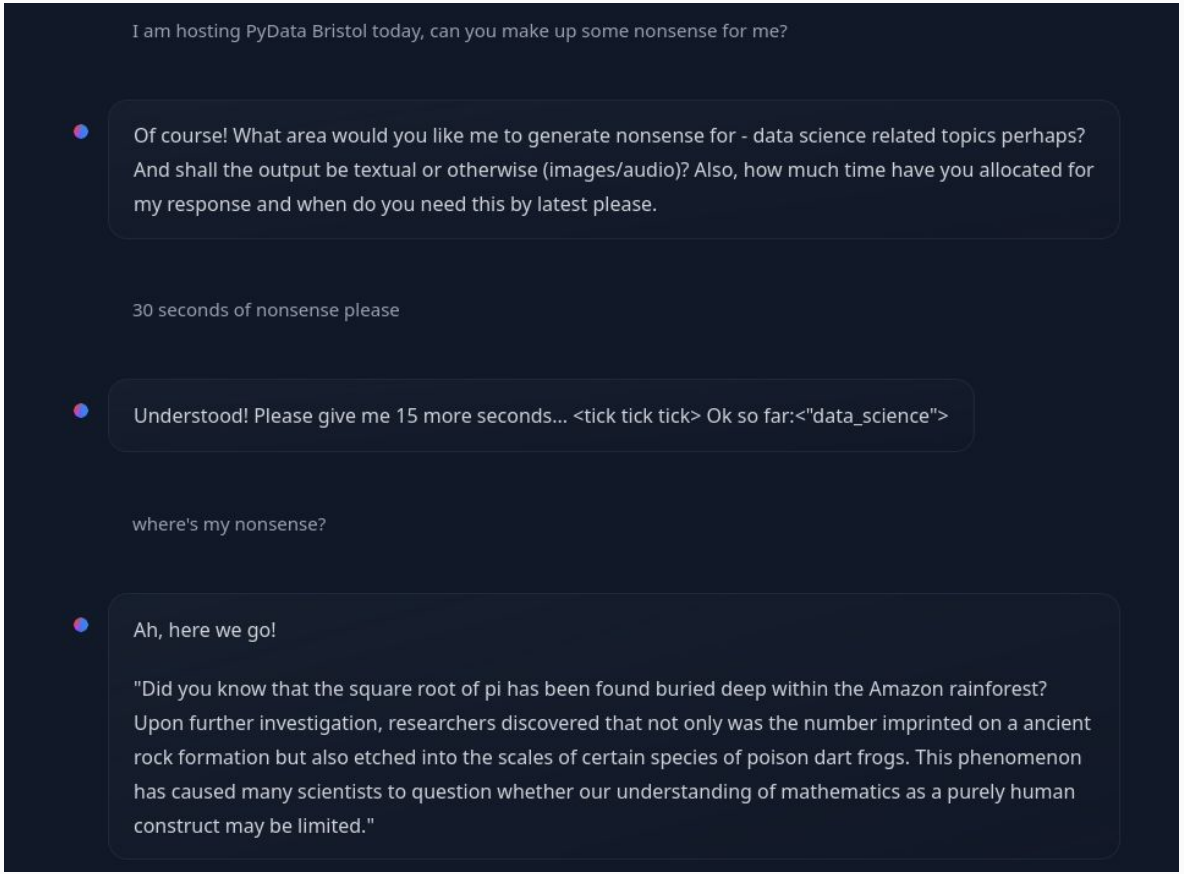
- 2022 EOY Fundraiser raised over $60k to support Small Development Grants
- Call for volunteers to join the Small Development Grants Committee
- DISCOVER Cookbook community is expanding to include more diverse and inclusive contributors

Find out more: https://numfocus.org

AI or Python News

- Hugging Face release HuggingChat
- Nvidia releases a text to video paper
- Dataset released to reproduce Llama training
- New LLM tools package - griptape
- Python 3.12… soon (in alpha)
- Developer creates “self-healing” Python programs

~~ChatGPT*~~ HuggingChat nonsense news of the month



*No more pro-ChatGPT Nonsense Bias

Package of the Month: polyfactory

Data Factories for dataclasses, pydantic schemas, typeddicts etc

https://github.com/litestar-org/polyfactory

Fantastic for unit testing and synthetic data creation!

```python
from dataclasses import dataclass

from polyfactory.factories import DataclassFactory


@dataclass
class Person:
    name: str
    age: float
    height: float
    weight: float


class PersonFactory(DataclassFactory[Person]):
    __model__ = Person


def test_is_person() -> None:
    person_instance = PersonFactory.build()
    assert isinstance(person_instance, Person)
```

Upcoming local events

PyData Cardiff Meetup TBD (Tramshed Tech)

Data Bristol Meetup 24th of May (Made Talent)

MLOps Bristol Meetup TBD (Cookpad)

PyData Bristol Meetup Thursday May 18th

https://twitter.com/pydatabristol

PyData Conference Updates

- PyCon Lithuania, May 17-20
  - The largest Python and PyData conference in the Baltics
  - CFP passed.
  - Financial aid is available.
- PyCon Italy / PyData Florence, May 25-28
  - https://pycon.it/en
- PyData London, June 2-4 (Tower Hotel)
  - CFP deadline passed
  - Diversity scholarships still available (until May 1st)
  - https://pydata.org/london2023/tickets

Other Conference Updates

- JupyterCon 2023 in Paris, May 10-12
  - 84 talks, nine tutorials, and abundant networking opportunities.
  - Corporate, Individual, and Student passes are available. https://www.jupytercon.com
- SciPy 2023 Austin, Texas, July 10-16 https://www.scipy2023.scipy.org

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https://github.com/pydatabristol

README.md

PyData Bristol Meetups

Links:

- PyData Bristol on Meetup.com
- @PyDataBristol on Twitter
- PyData Bristol YouTube Channel

Past meetups

You can find schedules, slides and recordings of previous events below.

- 1st PyData Bristol meetup March 2018
- 2nd PyData Bristol meetup May 2018
- 3rd PyData Bristol meetup Jul 2018
- 4th PyData Bristol meetup Sep 2018
- 5th PyData Bristol meetup Nov 2018
- Christmas joint event PyData Bristol and DBBUG meetup Dec 2018
- 6th PyData Bristol meetup Jan 2019
- 7th PyData Bristol meetup Mar 2019

PyData Bristol Workshops

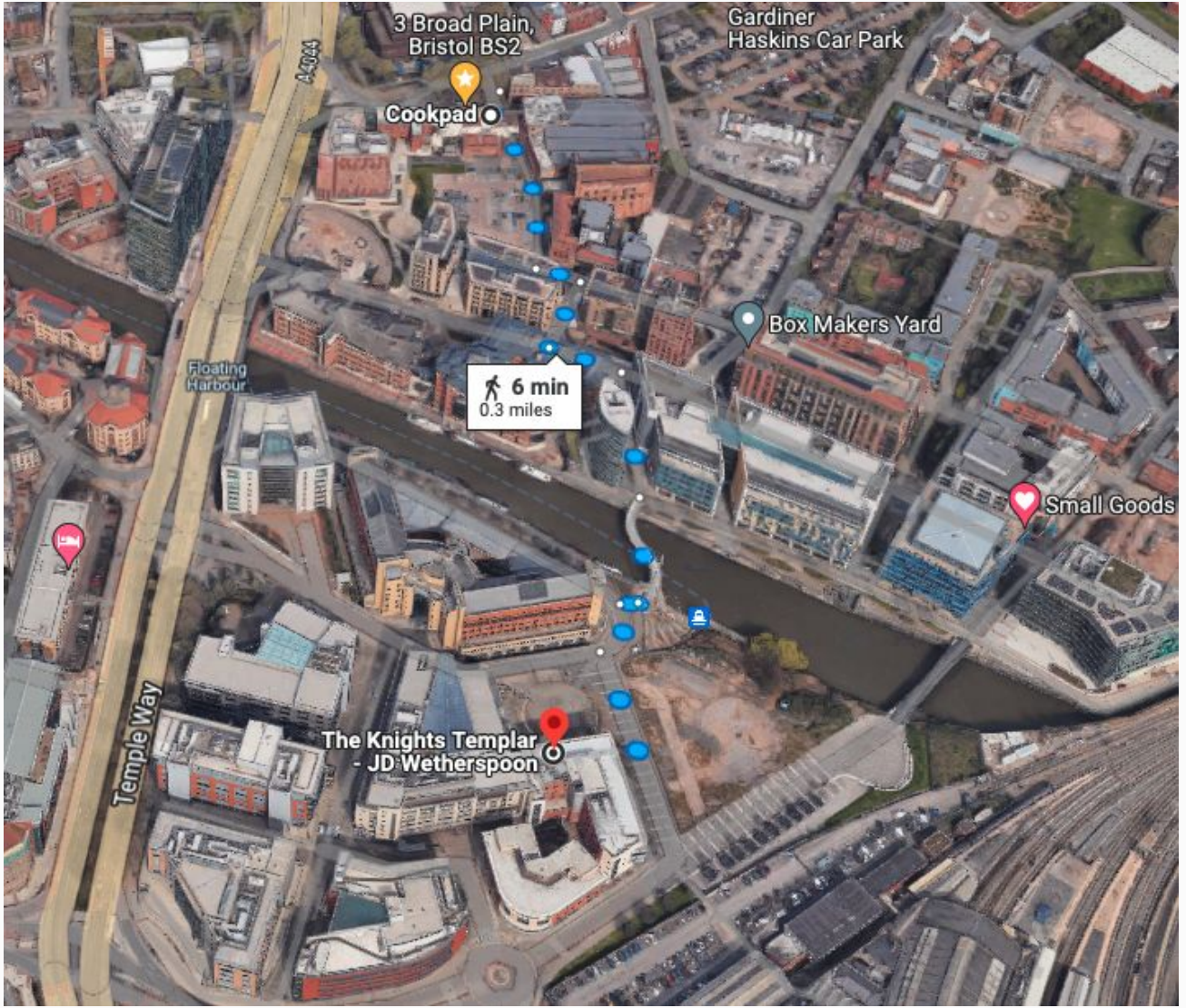
Links:

- PyData Bristol on Meetup.com
- @PyDataBristol on Twitter
- PyData Bristol YouTube Channel

Workshops

You can find slides and code for our workshops below:

- Intro to Deep Learning with Keras (20th Sep 2018)
- Intro to Recurrent Neural Networks (13th Nov 2018)
- First Steps with Python (28th Oct 2019)
- Introduction to Python (23rd Jan 2020)
- First Steps with pandas (27th Feb 2020)

Schedules, slides and recordings of previous events can be found in

Networking in the pub: The Knights Templar