

Git for (and by) experimentalists

Baptiste & Cyril

Déj' des Docs - Jan. 12, 2023

A few questions

- Who's an experimentalist? A numerician?
- Who's heard of Git/Github/Gitlab?
- Who's commonly using Git/Github/Gitlab?
- What do you use it for?

Git?

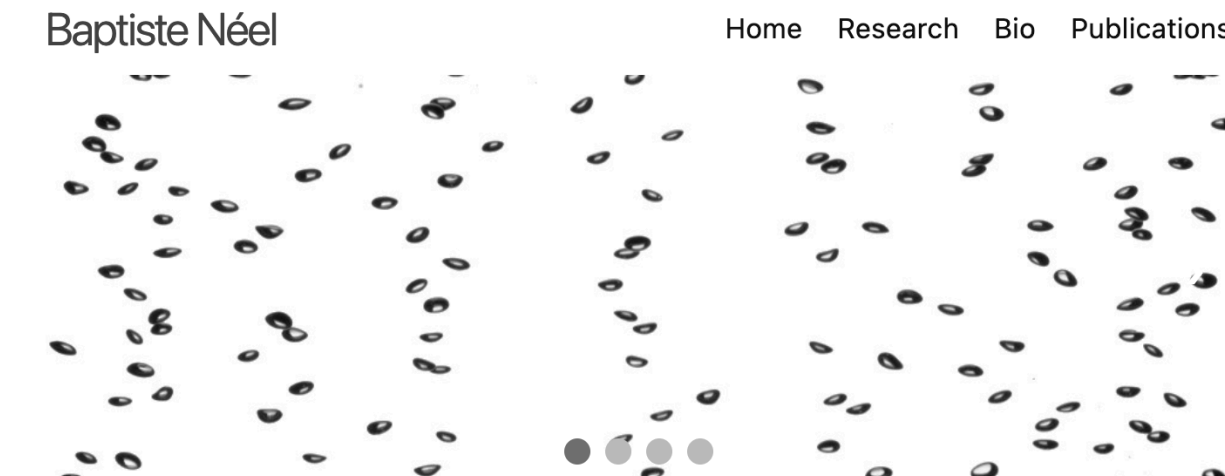
What is git for?

- versioning, tagging
- online storage/backup
- collaborations: multi-persons, multi-computers
- ~~data storage~~

Why do we use it?

- personal page
- code/doc
- papers

Github pages

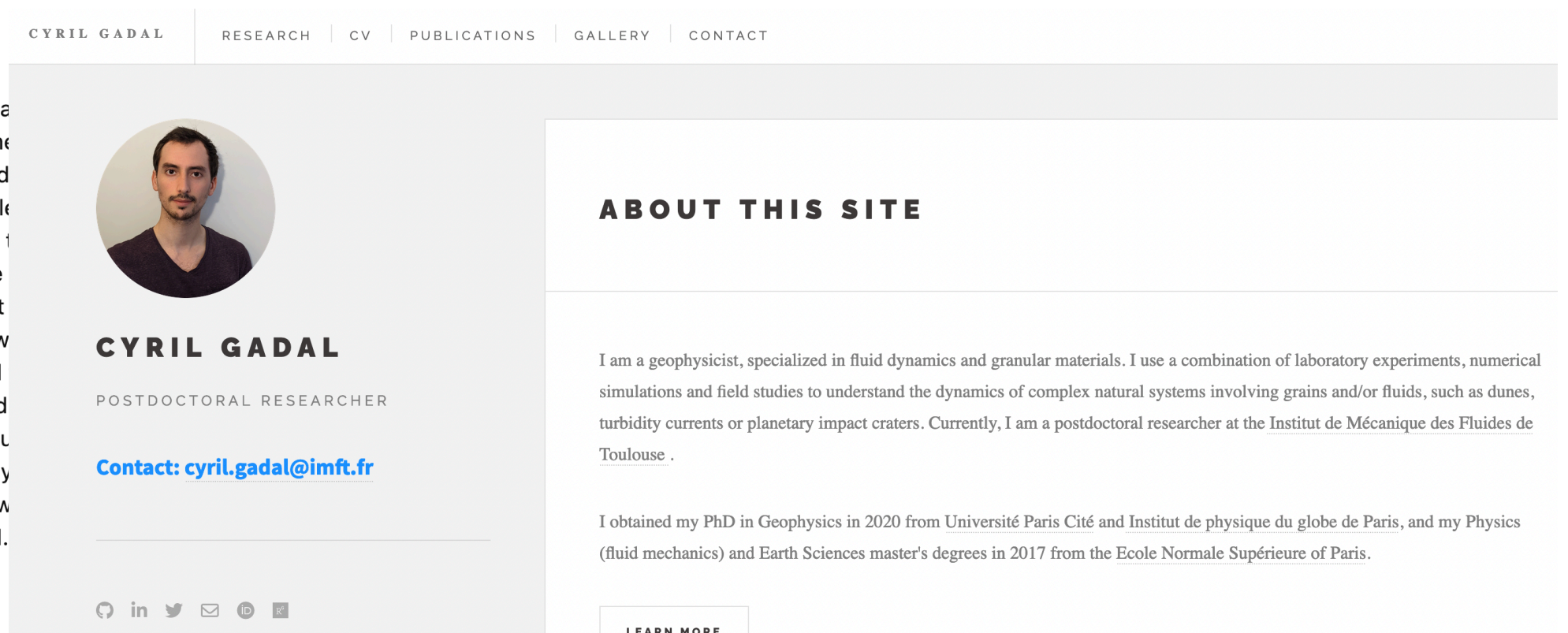


Welcome!



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With a physicist's background
strong experimental skills, I qu
consequences in our everyday
presently work as a postdoc w
squeezed in a Hele-Shaw cell.



Dylan Letessier...

CoBubbles

CoBubbles stands for Collective Bubbles Simulations. It is a modular Python code for simulating bubbles on a plane (for instance, air bubbles at the surface of water).

Contents

- [Installation](#)
- [Code Organization](#)
- [Simulations](#)
- [Release notes](#)

Example

A minimal working example is demonstrated in [this notebook](#).

Provided that `Simu` is defined properly, the following code instantiates a sim with the given parameters `params`:

```
from cobubbles.main import Simu
params = dict(lifetime=10)
s = Simu(**params)
s.params # or s.params_df for a view as a pd.Series
```

Then run the simulation for 100 steps and display a *time* series of bubbles n and mean size $\langle d/d_1 \rangle$ (figure output may be different for one run to the next)

```
s.run(100)
s.plot_time_series()
```



Code & Doc

Local wind regime induced by giant linear dunes

[Home page](#)

[Paper figures](#)

[Processing codes](#)

[Python functions and modules](#)

🔍 Search the docs ...

Codes for “Local wind regime induced by giant linear dunes”

This page contains the documentation of the codes used in the paper:

Local wind regime induced by giant linear dunes: comparison of ERA5-Land re-analysis with surface measurements.

Note

- the corresponding Github repository is <https://github.com/Cgadal/GiantDunes>
- the corresponding data are available here: DOI [10.5281/zenodo.6343138](https://doi.org/10.5281/zenodo.6343138)

test: `matplotlib.pyplot.scatter`

Documentation:

- [Home page](#)
- [Paper figures](#)
- [Supplementary figures](#)
- [Processing codes](#)
- [Python functions and modules](#)



Papers

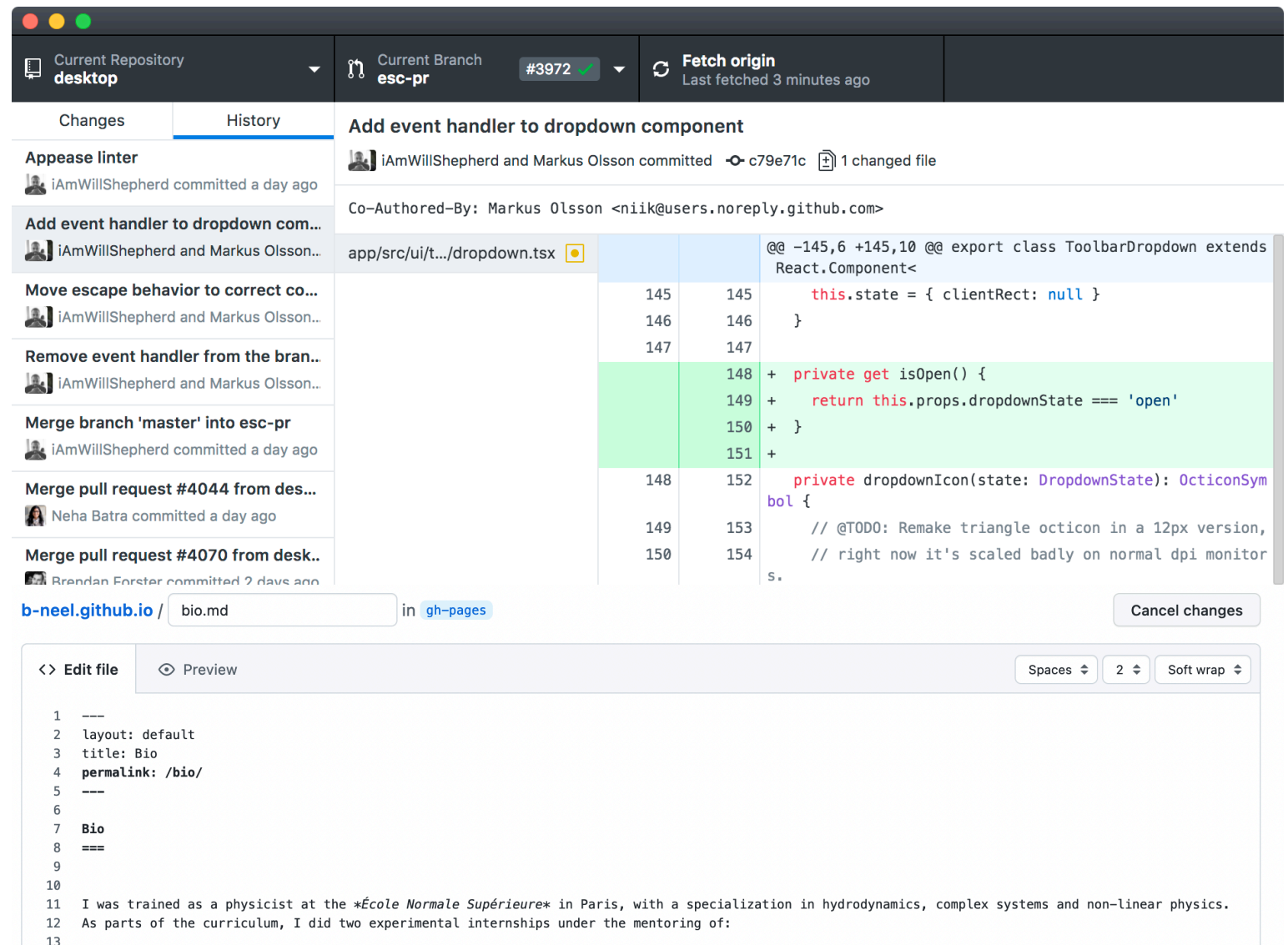
or any other text

- Who's using Overleaf?
- Integration git+Overleaf: possible
- github.com/b-neel/2023-CNRS-IMFT
- github.com/Cgadal/GiantDunes

How to use it?

Different levels of geekiness

- Github Desktop
- github.com
- Atom, VSCode
- git



```
b-neel.github.io$ git log -1
commit 31bb29448aa4c2139c99fd8aac67332a4970348d (HEAD -> gh-pages, origin/gh-pages, origin/HEAD)
Author: Baptiste Néel <45600677+b-neel@users.noreply.github.com>
Date: Mon Jan 2 16:42:52 2023 +0100
```

Update footer.html

Resources

- github.com, gitlab.com, www.atlassian.com/git
- git-scm.com/doc
- stackoverflow.com and tons of tutorials online
- overleaf.com
- wiki.imft.fr/cosinus/programmation (CoSiNus)
- gitlab.imft.fr