

# Analiza wielowymiarowa

## Środowisko Pracy

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# Narzędzia

- STATA 17 <https://www.wne.uw.edu.pl/pl/wydzial/pracownia-informatyczna/>
- anaconda (e.g. python packages i jupyter/jupyterlab)  
<https://www.anaconda.com/products/individual>
- git clone <https://github.com/Polkas/AW2021> albo  
ściągnięcie i rozpakowanie
- Uzupełnienie AW2021/spec.yaml w tym otrzymanym hasłem  
od prowadzących

# Odtworzenie Środowiska Pracy - Reprodukowalność

- terminal (zsh lub bash) oraz conda.
- Anaconda Navigator - GUI.

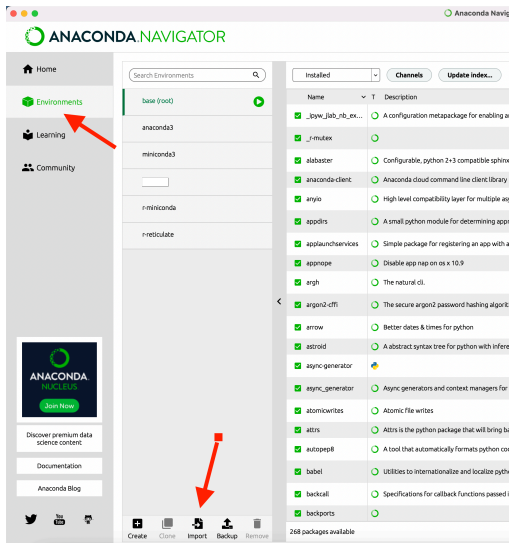
# Komputery prywatne - terminal

- `conda create --yes --name py38_aw_wne python=3.8`
- `pip3 install -r requirements.txt`
- `jupyter lab`

# WNE - conda - menadżer pakietów - terminal

- `conda env create --file ./AW2021/environment.yaml`  
`[--name py39_aw]`
- `conda activate py39_aw`
- `jupyter lab`
- Lista najważniejszych poleceń conda-y  
[https://docs.conda.io/projects/conda/en/4.6.0/\\_downloads/52a95608c49671267e40c689e0bc00ca/conda-cheatsheet.pdf](https://docs.conda.io/projects/conda/en/4.6.0/_downloads/52a95608c49671267e40c689e0bc00ca/conda-cheatsheet.pdf)

# WNE - Anaconda Navigator 1



ANACONDA NAVIGATOR

Home

Environments

Learning

Community

Search Environments

base (root)

anaconda3

miniconda3

n-miniconda

n-reticulate

ANACONDA NUCLEUS

Join Now

Discover premium data science content

Documentation

Anaconda Blog

Create Clone Import Backup Remove

Installed Channels Update index...

Name	Description
<input checked="" type="checkbox"/> _ipyw_lab_nb_ex...	<input checked="" type="checkbox"/> A configuration metapackage for enabling a
<input checked="" type="checkbox"/> _r-mutex	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> alabaster	<input checked="" type="checkbox"/> Configurable, python 2+3 compatible sphinx
<input checked="" type="checkbox"/> anaconda-client	<input checked="" type="checkbox"/> Anaconda cloud command line client library
<input checked="" type="checkbox"/> anyio	<input checked="" type="checkbox"/> High level compatibility layer for multiple as
<input checked="" type="checkbox"/> appdirs	<input checked="" type="checkbox"/> A small python module for determining app
<input checked="" type="checkbox"/> applaunchservices	<input checked="" type="checkbox"/> Simple package for registering an app with a
<input checked="" type="checkbox"/> appnope	<input checked="" type="checkbox"/> Disable app nap on os x 10.9
<input checked="" type="checkbox"/> argh	<input checked="" type="checkbox"/> The natural cli.
<input checked="" type="checkbox"/> argon2-cffi	<input checked="" type="checkbox"/> The secure argon2 password hashing algorit
<input checked="" type="checkbox"/> arrow	<input checked="" type="checkbox"/> Better dates & times for python
<input checked="" type="checkbox"/> astroid	<input checked="" type="checkbox"/> A abstract syntax tree for python with infere
<input checked="" type="checkbox"/> async-generator	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> async_generator	<input checked="" type="checkbox"/> Async generators and context managers for
<input checked="" type="checkbox"/> atomicwrites	<input checked="" type="checkbox"/> Atomic file writes
<input checked="" type="checkbox"/> attrs	<input checked="" type="checkbox"/> Attrs is the python package that will bring bi
<input checked="" type="checkbox"/> autopep8	<input checked="" type="checkbox"/> A tool that automatically formats python co
<input checked="" type="checkbox"/> babel	<input checked="" type="checkbox"/> Utilities to internationalize and localize pyth
<input checked="" type="checkbox"/> backcall	<input checked="" type="checkbox"/> Specifications for callback functions passed i
<input checked="" type="checkbox"/> backports	<input checked="" type="checkbox"/>

268 packages available

# WNE - Anaconda Navigator 2

The screenshot displays the Anaconda Navigator application window. On the left sidebar, the 'Environments' tab is selected, indicated by a red arrow. The main panel shows a list of environments: 'base (root)', 'anaconda3', 'miniconda3', 'n-miniconda', and 'n-reticulate'. Below this list, a red arrow points to the 'Import' button in the bottom toolbar. An 'Import Environment' dialog box is open in the center, with a red arrow pointing to the 'Local drive' radio button. The dialog shows the file path '/Users/maciej.nasinski/Documents/AW/environment.yaml' and the new environment name 'py39\_aws'. The 'Import' button is highlighted in green.

**Import Environment**

Import from:

- ☒ Local drive
- ☐ Anaconda Nucleus

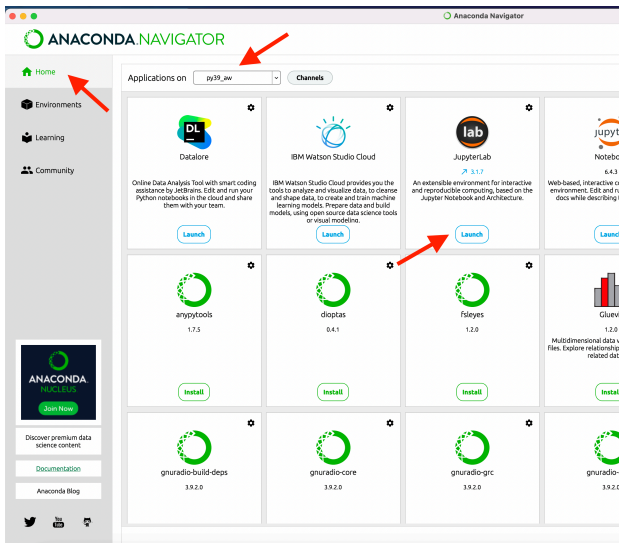
File path: /Users/maciej.nasinski/Documents/AW/environment.yaml

New environment name: py39\_aws

☐ Overwrite existing environment

Buttons: Cancel, Import

# WNE - Anaconda Navigator 3





# Brak Anaconda

```
pip3 install -r requirements.txt  
jupyter lab
```

# Uaktualnienie Repozytorium AW2021

```
cd AW2021 zmiana ścieżki na AW2021  
git pull
```

# STATA i python

- Dokumentacja pakietu pystata  
<https://www.stata.com/python/pystata/index.html>
- Nasz GUI jupyter <https://jupyter.org/> oraz użycie wraz ze STATA <https://www.stata.com/new-in-stata/jupyter-notebooks/>

# Kto pyta, nie błądzi

- Forum dla statystyków i programistów - stackoverflow i kategoria cross validated <https://stackoverflow.com/>

# Python - źródła

- Python for Everybody <https://py4e.pl/book.php> or  
Python Crash Course  
[https://github.com/ehmatthes/pcc\\_2e](https://github.com/ehmatthes/pcc_2e)
- Znana strona z materiałami o pythonie  
<https://realpython.com/>