
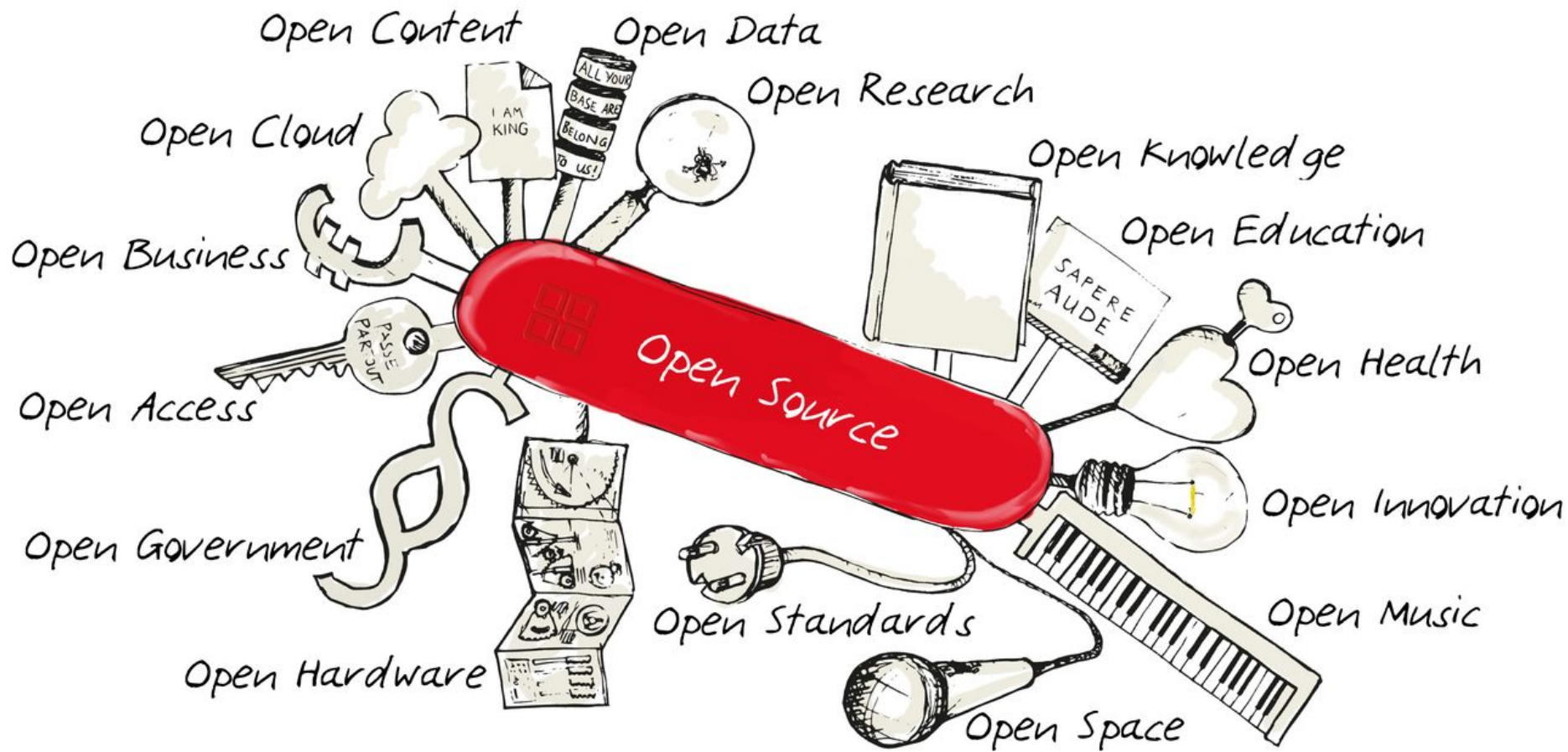


Lic. Cecilia T. Herbert  
herbertceci@gmail.com  
 ChuckleScience

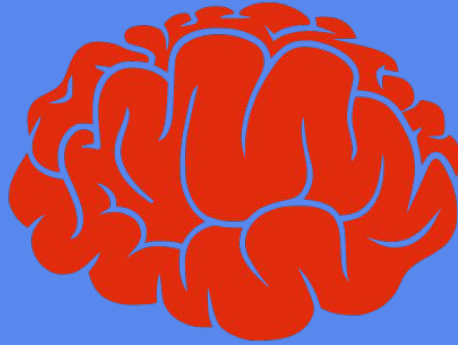
# Primeros pasos en (neuro)ciencia abierta

5 de noviembre 2022 en el Taller Práctico Abierto  
IBRO-LARC sobre adquisición de señales  
neuronales





# ¿Neurociencia abierta?



***Software***

***Hardware***

**Formación**

**Métodos**

**Datos**

github.com/DeepLabCut/DeepLabCut

DeepLabCut / DeepLabCut Public

Sponsor Notifications Star 2.5k

<> Code

Issues 15

Pull requests 10


Actions

Projects

Wiki

Security

Insights




master

11 branches

43 tags

Go to file

Code

 jeylau

Substitute cv2 imresize with skimage (#1529) ...

✓ ce681b4 2 days ago

🕒 1,015 commits

📁 .circleci	update circle cli (#1363)	4 months ago
📁 .github	Stricter scikit-image requirements (#1554)	15 days ago
📁 conda-environments	DLC 2.2.0.1	2 months ago
📁 deeplabcut	Substitute cv2 imresize with skimage (#1529)	2 days ago
📁 docker	Add Dockerfiles and helper scripts (#1511)	last month
📁 docs	Plotting assemblies in evaluation (#1560)	7 days ago
📁 examples	Additional unit tests against GT data (#1536)	18 days ago
📁 tests	Consider symmetric keypoints when computing OKS (#1551)	16 days ago
📄 .gitignore	gitignore update	3 months ago
📄 AUTHORS	2.2rc1 Documentation (#1209)	6 months ago
📄 CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	2 years ago
📄 CONTRIBUTING.md	Update CONTRIBUTING.md (#1099)	9 months ago
📄 LICENSE	Hello world	4 years ago

About

Official implementation of DeepLabCut:  
Markerless pose estimation of user-defined  
features with deep learning for all animals  
incl. humans

[deeplabcut.org](https://deeplabcut.org)

deep-learning

toolbox

behavior-analysis

pose-estimation

labeling-tool

feature-detectors

keypoint-tracking

deeplabcut

keypoint-detection

animal-pose-estimation

📖 Readme

📄 LGPL-3.0 License

📄 Code of conduct

Releases 38

2.2 DeepLabCut

Latest

on Aug 6

+ 37 releases

# ¿Cómo contribuyo?

- Help ensuring conda-forge package stays up to date?  
#1549 opened 18 days ago by hmaarrfk
- Usage as a library enhancement  
#1548 opened 19 days ago by hmaarrfk 0 2 tasks done
- Installing deeplabcut-docker on ubuntu20 - Failed to launch the DLC GUI; as 'headle  
Docker more-data-requested-by-us  
#1538 opened 22 days ago by albertalbesa 0 2 tasks done
- Consistent offset of labels when using EfficientNet bug WORK IN PROGRESS!  
#1509 opened on Sep 15 by AnFrBo 0 2 tasks done
- draw skeleton during labelling contributions-welcome Feature-request  
#1499 opened on Sep 8 by poborin
- Memory Error During Video Analysis help wanted Tensorflow 2 WORK IN PROGRESS!  
#1468 opened on Aug 22 by mfkales 0 2 tasks done
- Feature request\_Mark labeled video's folder contributions-welcome Feature-request  
#1221 opened on May 7 by Andrianarivelo

## Licencias



DeepLabCut / DeepLabCut Public

<> Code Issues 15 Pull requests 10 Actions Projects Wiki Security

master DeepLabCut / CONTRIBUTING.md

MMathisLab Update CONTRIBUTING.md (#1099) ✕

3 contributors

73 lines (39 sloc) 5 KB

## How to Contribute to DeepLabCut

DeepLabCut is an actively developed package and we welcome community development from underrepresented backgrounds in OSS to contribute their expertise and experience to the project. We are happy to receive code extensions, bug fixes, documentation updates, etc.

If you are a new user, we recommend checking out the detailed [Github Guides](#).

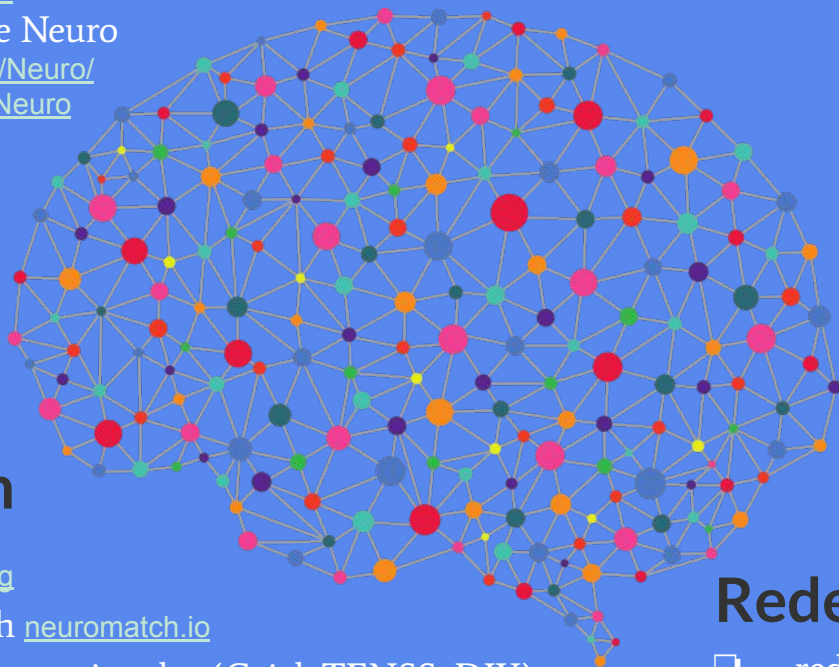
¿Y yo?





# Seminarios

- ❑ reGOSH [regosh.libres.cc](http://regosh.libres.cc)
- ❑ Open Source Neuro [world-wide.org/Neuro/Open-Source-Neuro](http://world-wide.org/Neuro/Open-Source-Neuro)



## Formación

- ❑ INCF [incf.org](http://incf.org)
- ❑ Neuromatch [neuromatch.io](http://neuromatch.io)
- ❑ Escuelas internacionales (Cajal, TENSS, DIY)
- ❑ Talleres Open Source [talleresos.netlify.app](http://talleresos.netlify.app)
- ❑ Open Life Science mentoring program

## Iniciativas globales

- ❑ Comunidad GOSH [openhardware.science](http://openhardware.science)
- ❑ Open Neuroscience [open-neuroscience.com](http://open-neuroscience.com)
- ❑ Open Ephys [open-ephys.org](http://open-ephys.org)
- ❑ Open Behavior [openbehavior.com](http://openbehavior.com)
- ❑ Open Labware [open-labware.net](http://open-labware.net)

## Redes

- ❑ [redestudiantesneuro@gmail.com](mailto:redestudiantesneuro@gmail.com) o [slack](https://www.slack.com)
- ❑ #neurotwitter
- ❑ Slack de neuromethods [neuromethods.slack.com](http://neuromethods.slack.com)
- ❑ Discord de Talleres Open Source





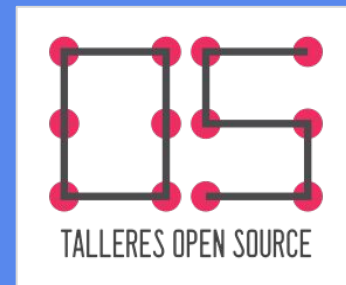
# Abiertos - Inclusivos - Interactivos

## Talleristas

Gonzalo Uribarri  
Juan Doppler  
Cecilia Herbert  
Marcos Coletti  
Alejandro Ramos Usaj  
Nicolás Méndez  
Luis Boero  
Agostina Sacson

## Organizadores 2020-2021

Cecilia Herbert  
Matías Andina  
Alejandro Cámara  
Azul Silva  
Marcos Coletti



[BIT.LY/TALLERESOPENSOURCE](https://bit.ly/talleresopensource)



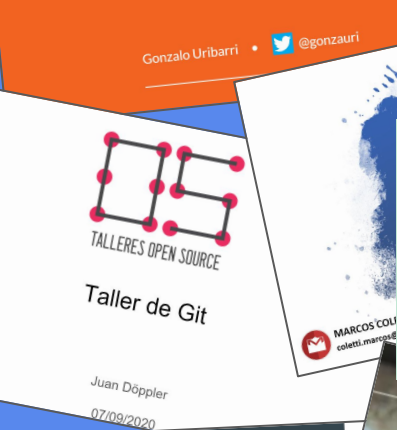
[GITHUB.COM/TALLERESOPENSOURCE](https://github.com/talleresopensource)



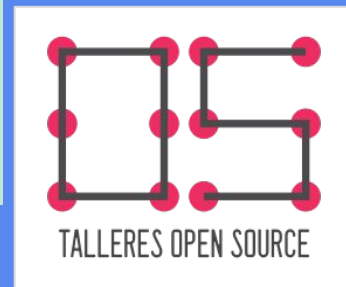
Abiertos -  
Inclusivos -  
Interactivos

Talleristas  
Gonzalo Uribarri  
Juan Döpler

Organizadores  
2020-2021  
Cecilia Herbert  
Matías Andina  
Alejandro Cámara  
Azul Silva  
Marcos Coletti



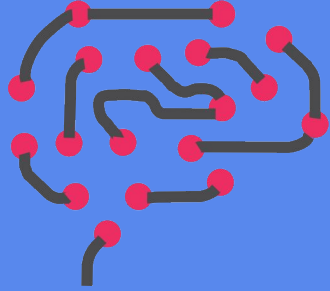
# ¡ANÍMENSE!



[BIT.LY/TALLERESOPENSOURCE](https://bit.ly/talleresopensource)

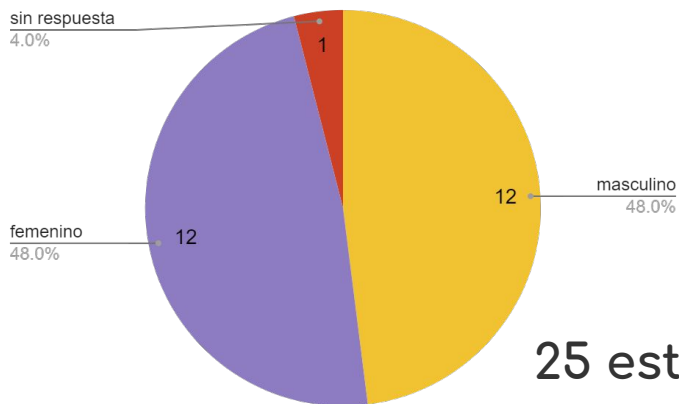
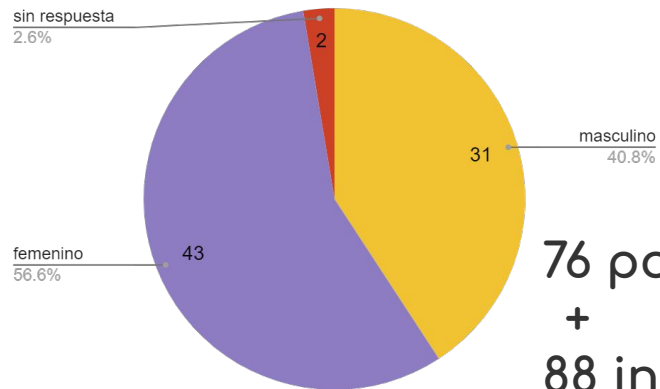


[GITHUB.COM/TALLERESOPENSOURCE](https://github.com/talleresopensource)

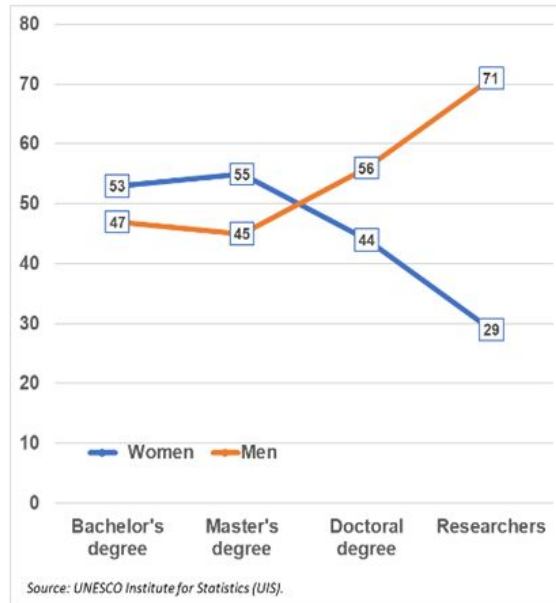


# Crterios de seleccin

5 de noviembre 2022 en el Taller Prctico Abierto  
IBRO-LARC sobre adquisicin de seales  
neuronales



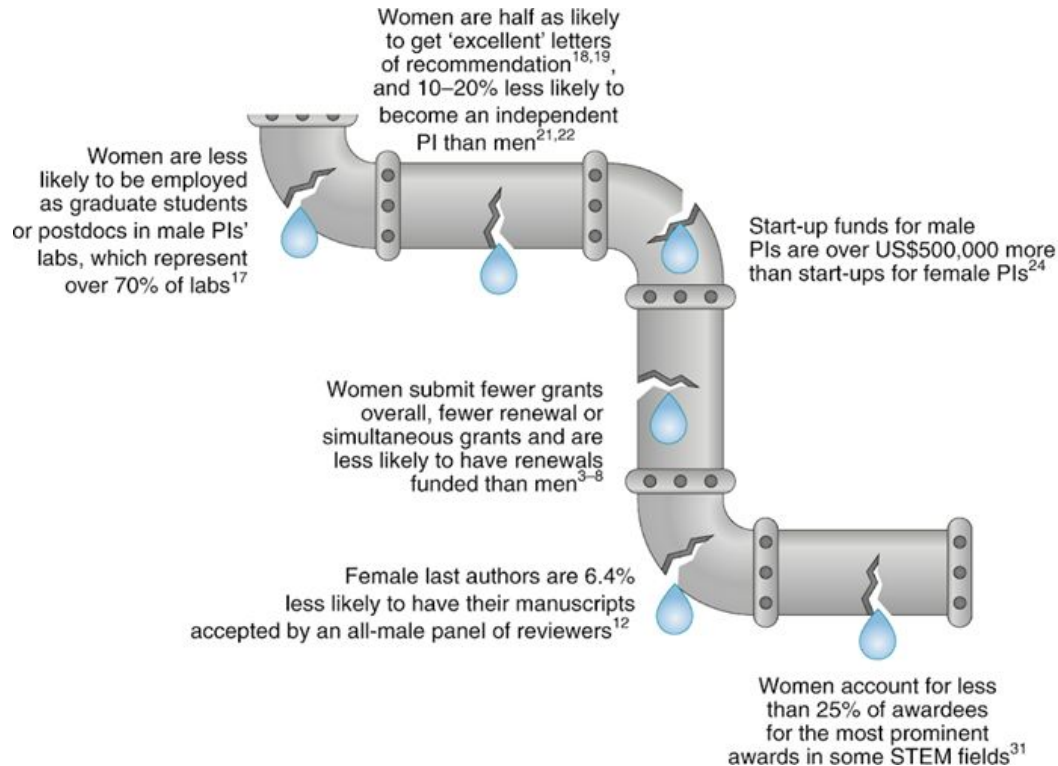
*Proporción global de mujeres y varones en  
ciencia como graduadxs e investigadorxs  
(2018)*



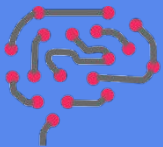
<https://sdg.uis.unesco.org/2019/02/08/data-policy-action-on-international-day-for-women-and-girls-in-science/>

<https://en.unesco.org/saga>

# THE LEAKY PIPELINE



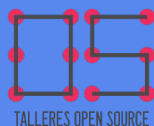
Adaptado de  
<https://www.nature.com/articles/s41559-018-0747-4>



# Taller práctico abierto IBRO-LARC: Adquisición de señales neuronales

## Trabajo final para evaluación:

- Máx 3 minutos de video, 1 comentario por video
- Votar opción de fecha (11, 12, 15 de noviembre) por Doodle
- Entrega hasta el día anterior
- A presentar virtual en clase extra (3 h)
- Plan concreto acerca de cómo aplicarían los conceptos del cursos a sus actividades profesionales (investigación, docencia, divulgación, desarrollo profesional)
  - Ej: no decir solo “tomar datos” sino a qué frecuencia de muestreo. Especificar. Justificar.
- Pueden presentar algo realizado en concreto pero no es necesario
- Consultas por Discord



Realizado con el apoyo del Fondo Metropolitano de la Cultura, las Artes y las Ciencias

Fondo Metropolitano  
de la Cultura, las Artes y las Ciencias



Buenos  
Aires  
Ciudad

