

NVIDIA TAO 数据准备

GUPAO TECH

TAO最难的是数据准备，其他都是标准化流程

我们的愿景

推动每一次人才升级

我们的使命

让每个人的职业生涯不留遗憾

请在此处
输入文字

请在此处
插入二维码

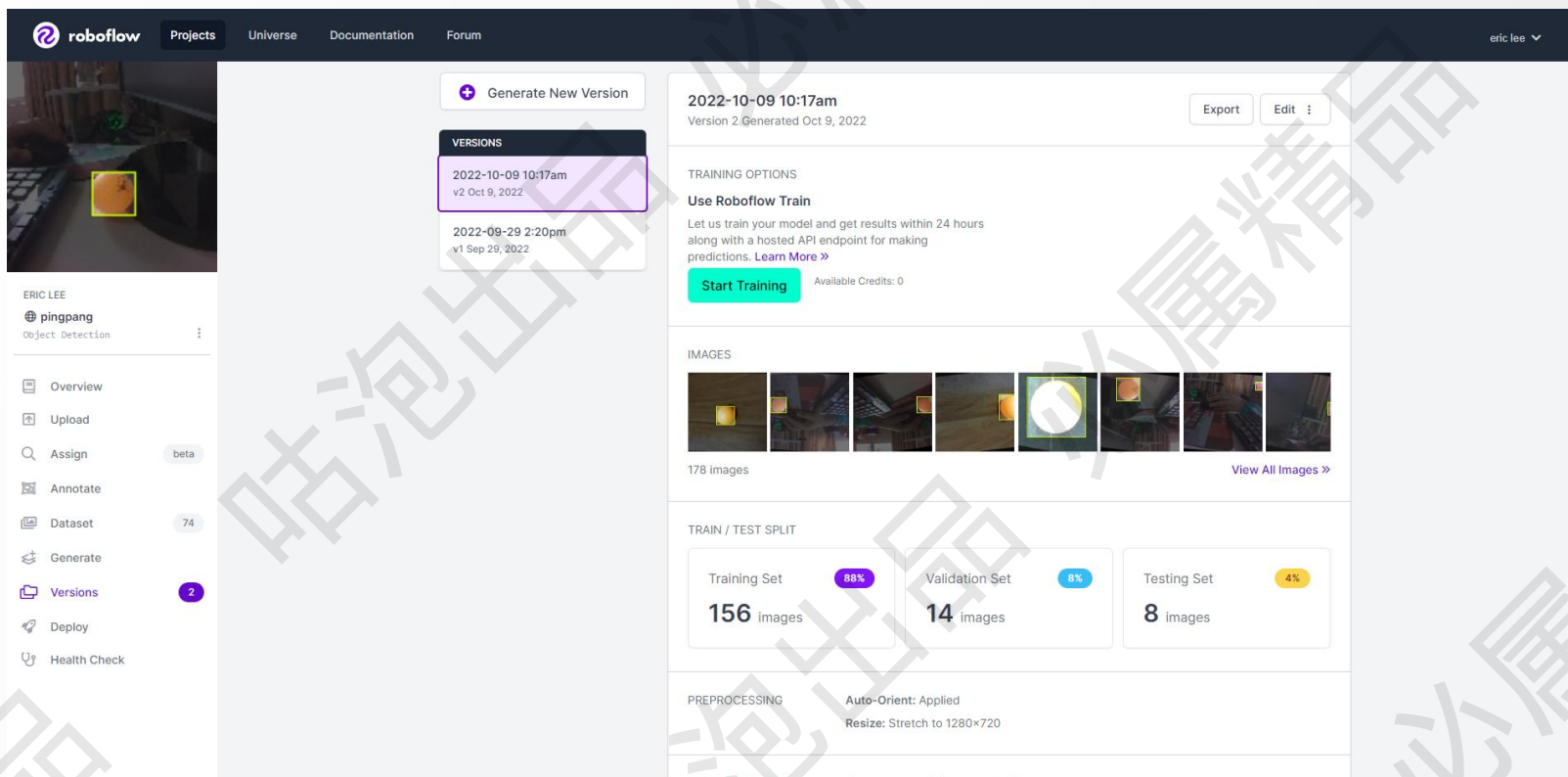
看看现有数据和补充数据

现有数据查看

手机拍照补充，调整图片大小

采用数据标注网站标注数据

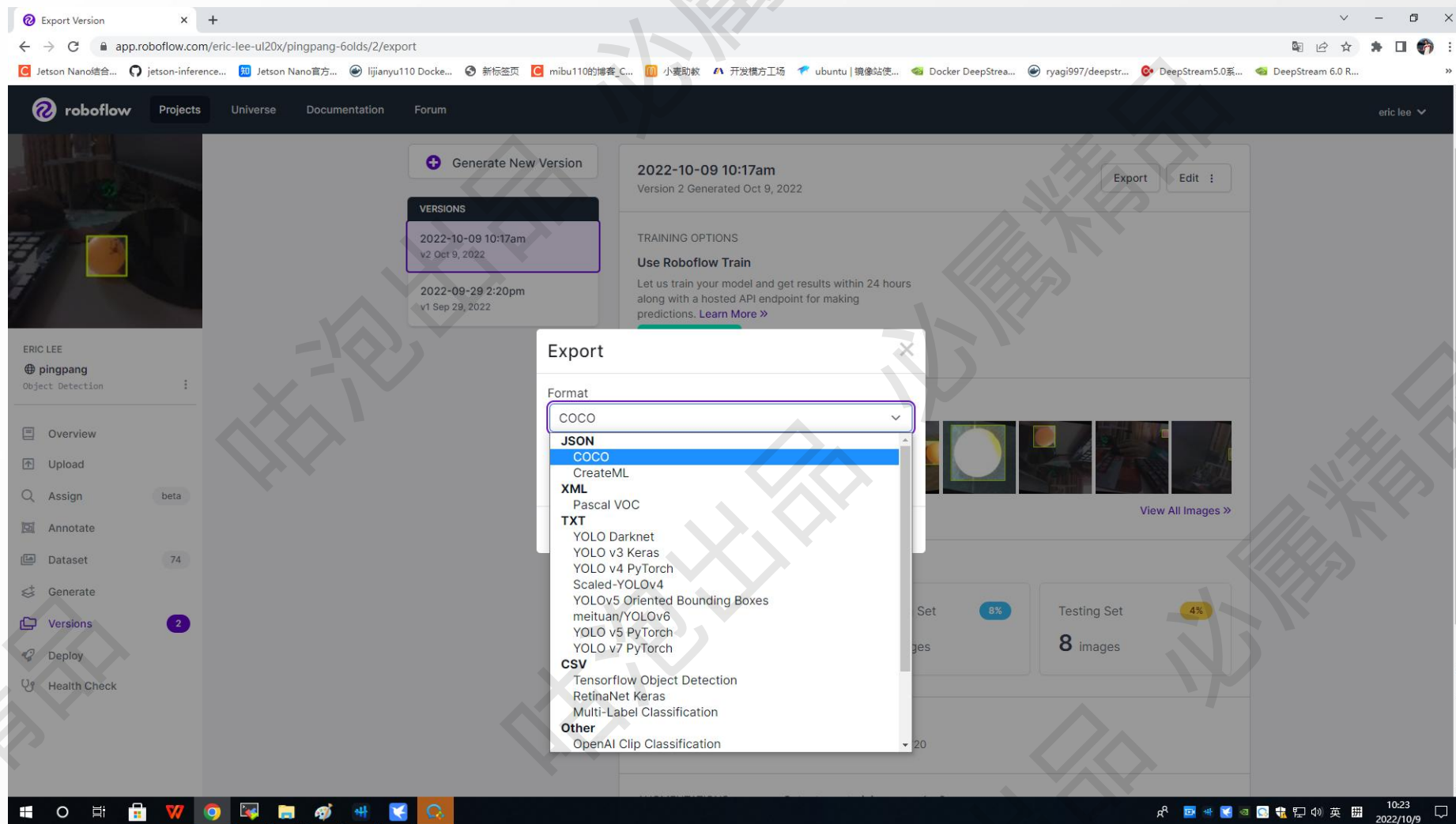
<https://app.roboflow.com/login>



The image shows the Roboflow web interface for a project named 'pingpang' (Object Detection). The interface is divided into several sections:

- Header:** Roboflow logo, navigation links (Projects, Universe, Documentation, Forum), and user profile (eric lee).
- Left Sidebar:** Project overview and actions: Overview, Upload, Assign (beta), Annotate, Dataset (74), Generate, Versions (2), Deploy, and Health Check.
- Project Overview:**
 - Generate New Version:** A button to create a new version.
 - VERSIONS:** A list of versions. The current version is '2022-10-09 10:17am v2 Oct 9, 2022'.
 - 2022-10-09 10:17am:** Version 2, Generated Oct 9, 2022. Includes 'Export' and 'Edit' buttons.
 - TRAINING OPTIONS:** A section titled 'Use Roboflow Train' with a description and a 'Start Training' button. It also shows 'Available Credits: 0'.
 - IMAGES:** A gallery of 178 images with a 'View All Images' link.
 - TRAIN / TEST SPLIT:** A table showing the distribution of images:

Set	Percentage	Count
Training Set	88%	156 Images
Validation Set	8%	14 Images
Testing Set	4%	8 Images
 - PREPROCESSING:** A section showing 'Auto-Orient: Applied' and 'Resize: Stretch to 1280x720'.



TAO 的安装

注意是在性能比较好的 NVIDIA 显卡服务器上
安装docker-ce 在Ubuntu系统上

```
curl https://get.docker.com | sh \  
&& sudo systemctl --now enable docker
```

TAO 的安装

在anaconda中创建一个新空间

```
conda create -n launcher python=3.6
```

```
conda activate launcher
```

安装tao

```
pip3 install nvidia-tao
```

验证TAO

tao --help

tao info

下载 TAO 示例

```
wget --content-disposition  
https://api.ngc.nvidia.com/v2/resources/nvidia/tao/cv_samples/v  
ersions/v1.4.0/zip -O cv_samples_v1.4.0.zip
```

老规矩解压到
~/cv_samples_v1.4.0

安装 jupyter

```
pip3 install jupyter
```

设置密码:

```
jupyter notebook password
```

启动jupyter

```
jupyter notebook --ip 0.0.0.0 --allow-root --port 8888
```

使用TAO

进入jupyter 按照案例来

验证TAO

tao --help

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验证TAO

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tao info

根据情况选择 合适的模板

根据实际情况自行跟换二维码和文字内容
此处为咕泡学员公众号二维码示意

请在此处
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谢谢观赏

GUPAO TECH



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