

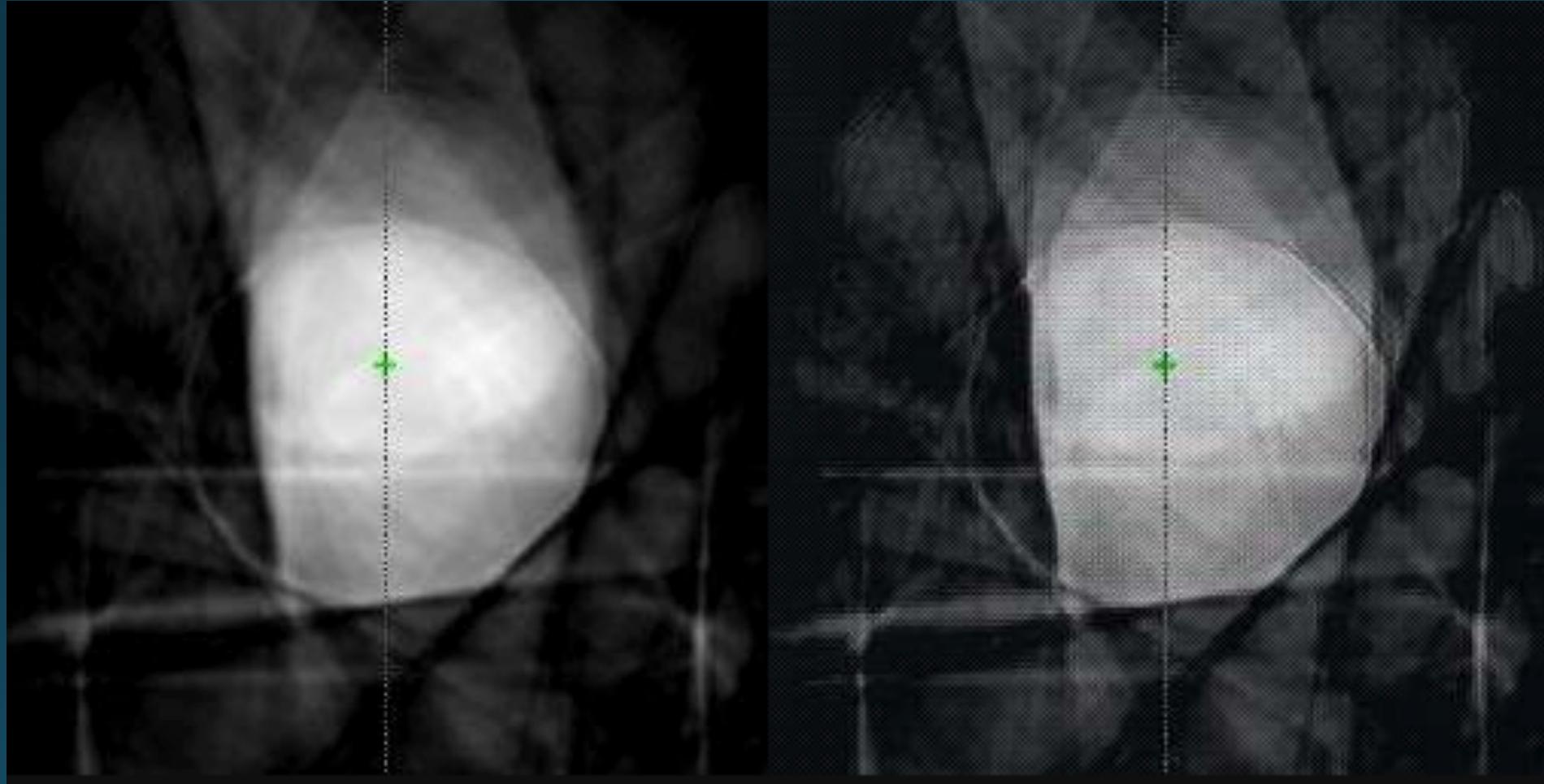
# Image Deblurring

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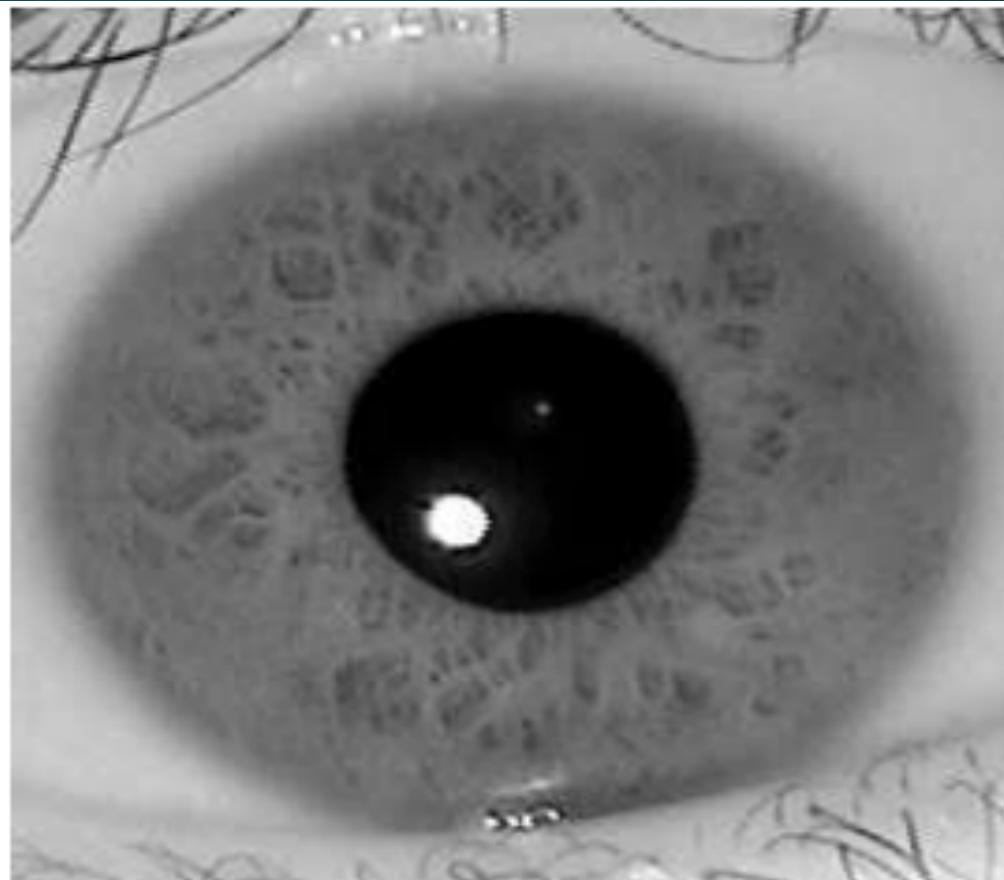
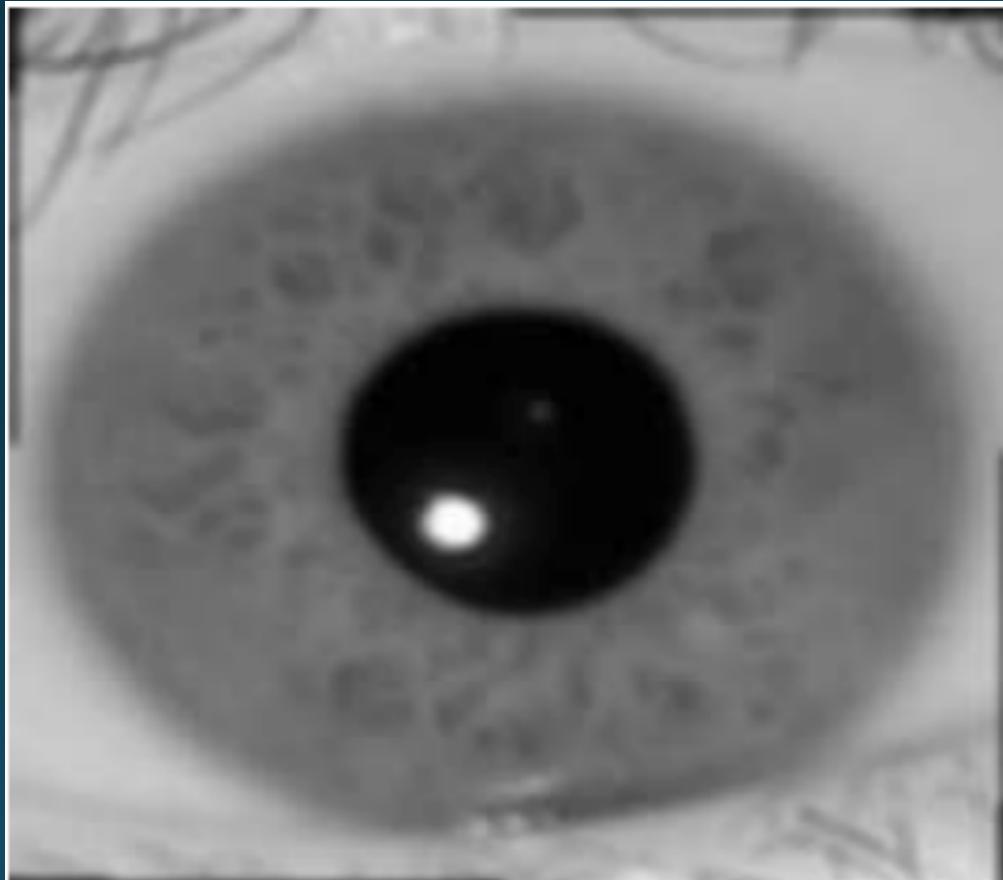
# Motivation

- Medical Usage
- Recognition Detection
- Astronomy

# Medical



# Image Detection - Iris Recognition

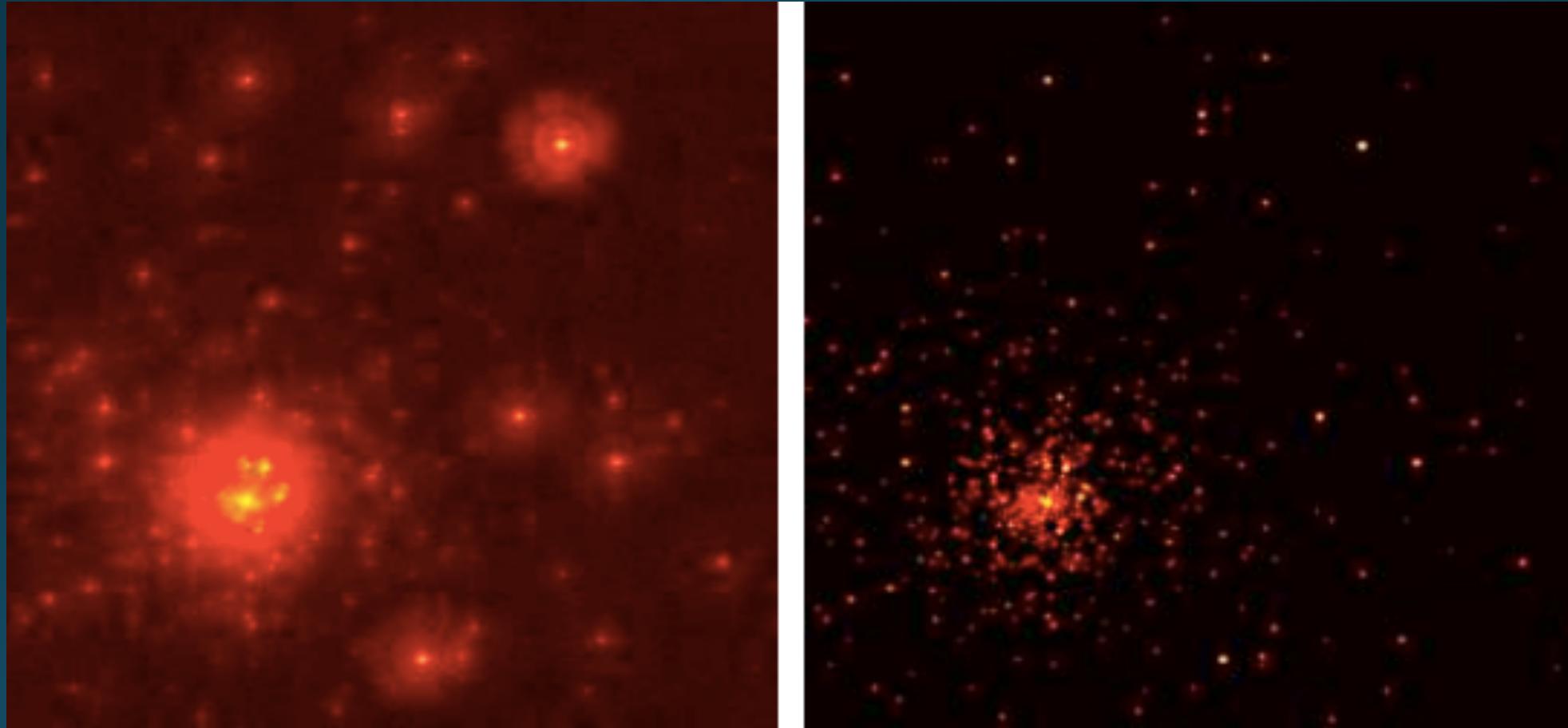


# Image Detection

## - Motional Car Image



# Astronomy



# Code

- Core Model: GANS
  - [https://github.com/yiyi-zhang-cu/PROJECT-Deblur\\_Images](https://github.com/yiyi-zhang-cu/PROJECT-Deblur_Images)

# Web APP

- <https://youtu.be/F7ZUQMzH3nw>

# Code

- SQL:
  - [https://github.com/yiyi-zhang-cu/PROJECT-Deblur\\_Images/blob/master/SQL%20Code%202.ipynb](https://github.com/yiyi-zhang-cu/PROJECT-Deblur_Images/blob/master/SQL%20Code%202.ipynb)

# SQL

```
1 import os
2 import pandas as pd
3 from sqlalchemy import create_engine
4 from string import Template
5 import psycopg2
6 import MySQLdb
7
8
9
10 def find_name(path):
11     #set path to the string of path of pictures
12     os.chdir(path)
13     os.getcwd()
14     #get names of picture files
15     files=os.listdir(os.curdir)
16     #find location
17     dir=os.path.dirname(os.path.realpath(files[0]))
18     dir_files=[]
19     id=[]
20     q=1
21     for i in files:
22         d=dir+'\\"+i
23         dir_files.append(d)
24         id.append(q)
25         q=q+1
26     a=pd.Series(id)
27     b=pd.Series(dir_files)
28     c=pd.DataFrame([a,b]).T
29     return c
30
31 path='.../train'
32 outcome=find_name(path)
```

# SQL

## MySQL settings

Connecting:

Use these settings in your web applications.

Database host address: [dylanhuang1224.mysql.pythonanywhere-services.com](#)

Username: [dylanhuang1224](#)

Your databases:

Click a database's name to start a MySQL console logged in to it.

Start a console on: [dylanhuang1224\\$Images1](#)

# SQL

```
mysql> show tables;
+-----+
| Tables_in_dylanhuang1224$Images1 |
+-----+
| picture_train
+-----+
1 row in set (0.00 sec)
```

# SQL

```
mysql> select * from picture_train;
+-----+-----+-----+
| index | ID   | Directory |
+-----+-----+-----+
|     0 | 1    | D:\data\small\test\1000.jpg |
|     1 | 2    | D:\data\small\test\1001.jpg |
|     2 | 3    | D:\data\small\test\1005.jpg |
|     3 | 4    | D:\data\small\test\301.jpg  |
|     4 | 5    | D:\data\small\test\302.jpg  |
|     5 | 6    | D:\data\small\test\303.jpg  |
|     6 | 7    | D:\data\small\test\304.jpg  |
|     7 | 8    | D:\data\small\test\305.jpg  |
|     8 | 9    | D:\data\small\test\306.jpg  |
|     9 | 10   | D:\data\small\test\307.jpg  |
|    10 | 11   | D:\data\small\test\308.jpg  |
|    11 | 12   | D:\data\small\test\309.jpg  |
|    12 | 13   | D:\data\small\test\310.jpg  |
|    13 | 14   | D:\data\small\test\311.jpg  |
|    14 | 15   | D:\data\small\test\312.jpg  |
|    15 | 16   | D:\data\small\test\313.jpg  |
|    16 | 17   | D:\data\small\test\314.jpg  |
|    17 | 18   | D:\data\small\test\315.jpg  |
|    18 | 19   | D:\data\small\test\316.jpg  |
|    19 | 20   | D:\data\small\test\317.jpg  |
|    20 | 21   | D:\data\small\test\318.jpg  |
|    21 | 22   | D:\data\small\test\319.jpg  |
|    22 | 23   | D:\data\small\test\320.jpg  |
|    23 | 24   | D:\data\small\test\321.jpg  |
|    24 | 25   | D:\data\small\test\322.jpg  |
|    25 | 26   | D:\data\small\test\323.jpg  |
|    26 | 27   | D:\data\small\test\324.jpg  |
|    27 | 28   | D:\data\small\test\325.jpg  |
|    28 | 29   | D:\data\small\test\326.jpg  |
|    29 | 30   | D:\data\small\test\327.jpg  |
|    30 | 31   | D:\data\small\test\328.jpg  |
|    31 | 32   | D:\data\small\test\329.jpg  |
+-----+-----+-----+
```

Thank you!