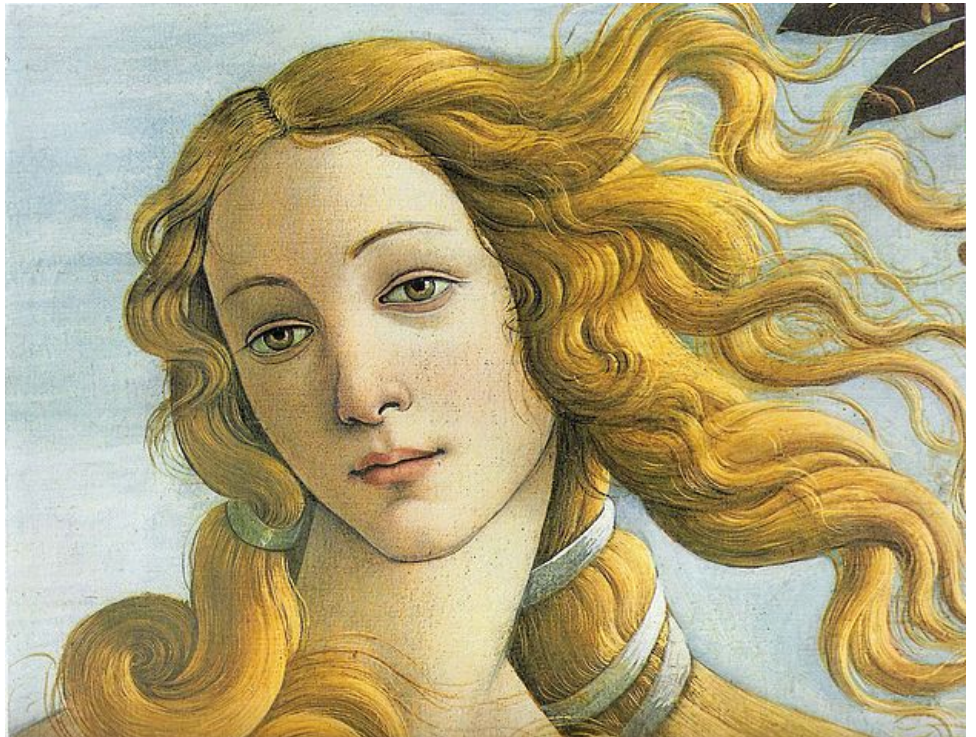


# Untitled

July 11, 2017

```
In [17]: %matplotlib inline
```



Welcome to Venus FEM STEM  
Investigating gender discrimination in STEM  
IRSAD = Index of Relative Social Advantage and Disadvantage IEO = Index of Education and  
Occupation  
See <http://www.abs.gov.au/websitedbs/censushome.nsf/home/seifa2011>

```
In [18]: run -i venus_femstem.py
```

```
-----  
Running venus_femstem 0.0.1  
-----
```

```
Importing VPIPE...
```

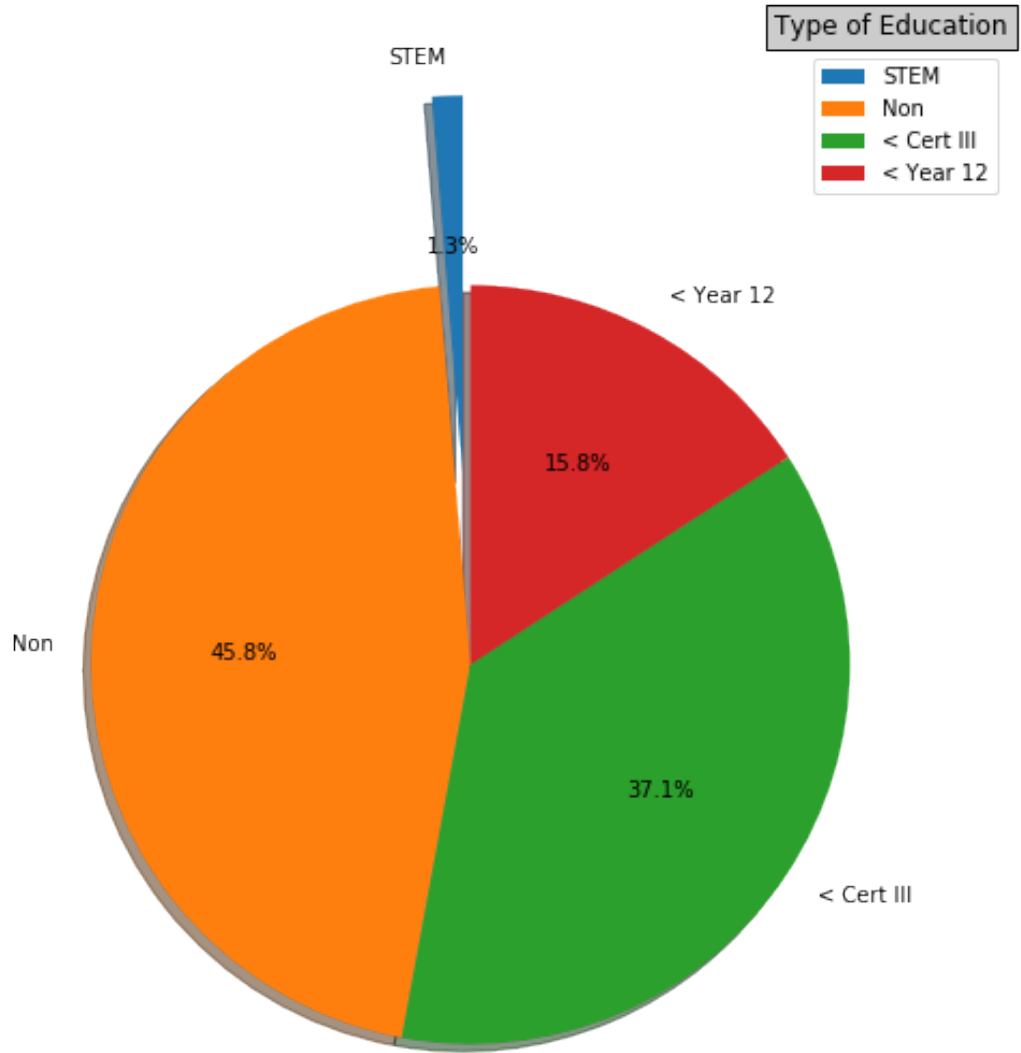
```
-----  
Beginning initialisation model...
```

-----  
Simulating 1000 Women

Producing agent list...

-----  
Beginning Tertiary Education Model...  
-----

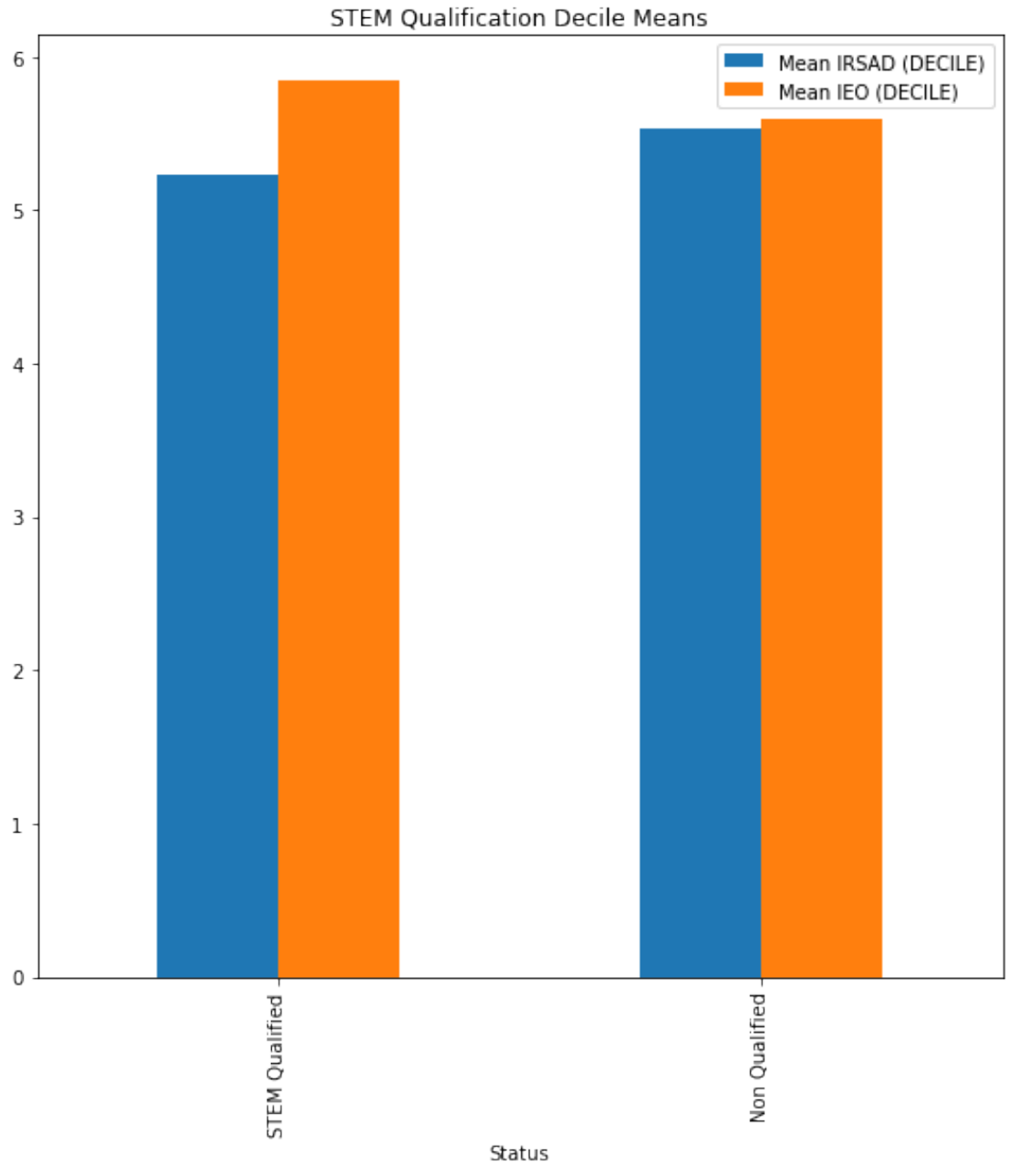
Total number of STEM-qualified agents (passes): 13  
Total number of agents without STEM qualification (fails): 987  
Total number of fails due to non-STEM qualification: 458  
Total number of fails due to  $\geq$  Year 12,  $<$  Cert III: 371  
Total number of fails due to  $<$  Year 12: 158

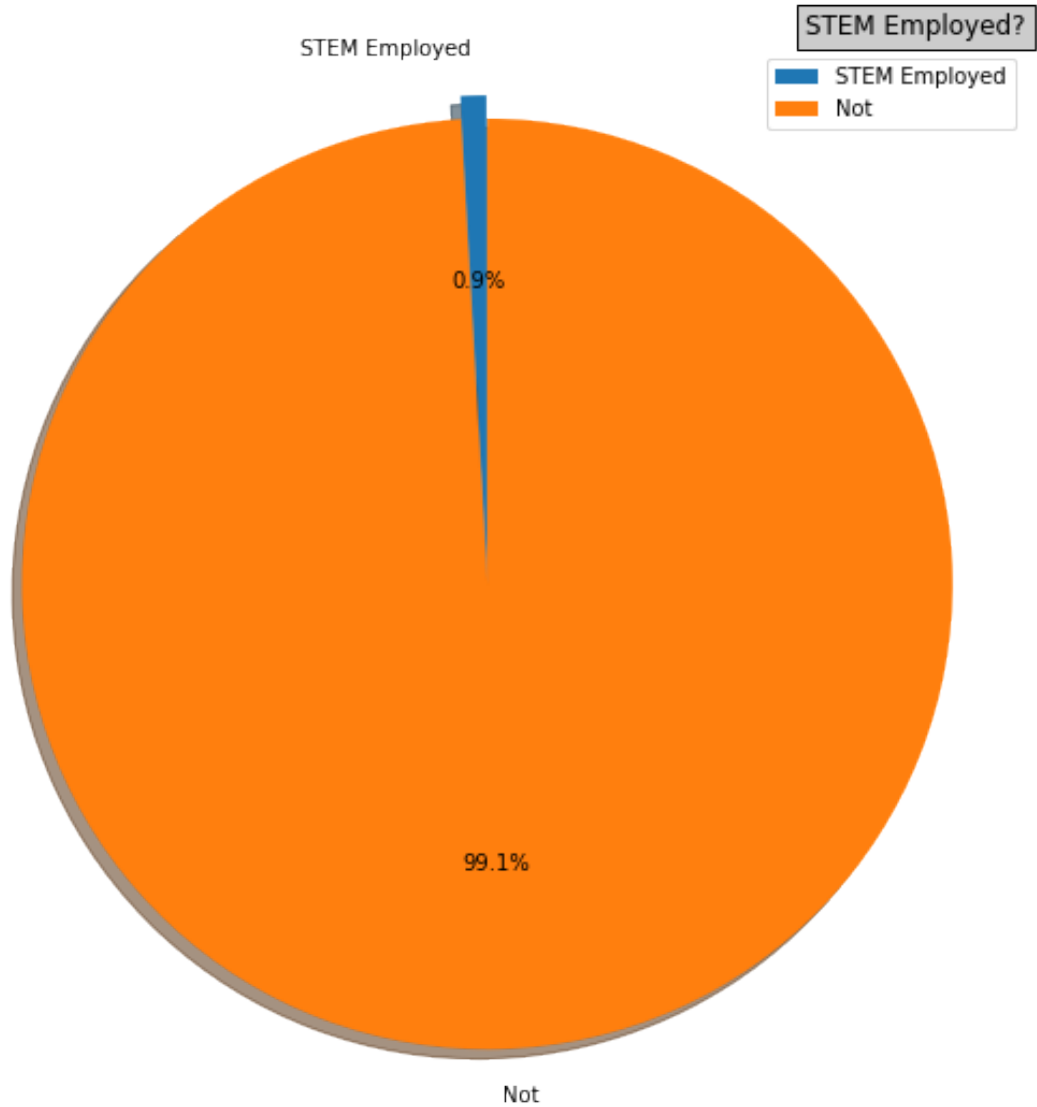


	Status	Count	Mean IRSAD (DECILE)	Mean IEO (DECILE)
0	STEM Qualified	13	5.23	5.85
1	Non Qualified	987	5.53	5.60

-----  
Beginning STEM Employment Model...  
-----

Total number of STEM-employed agents (passes): 9  
Total number of agents not employed in STEM (fails): 991



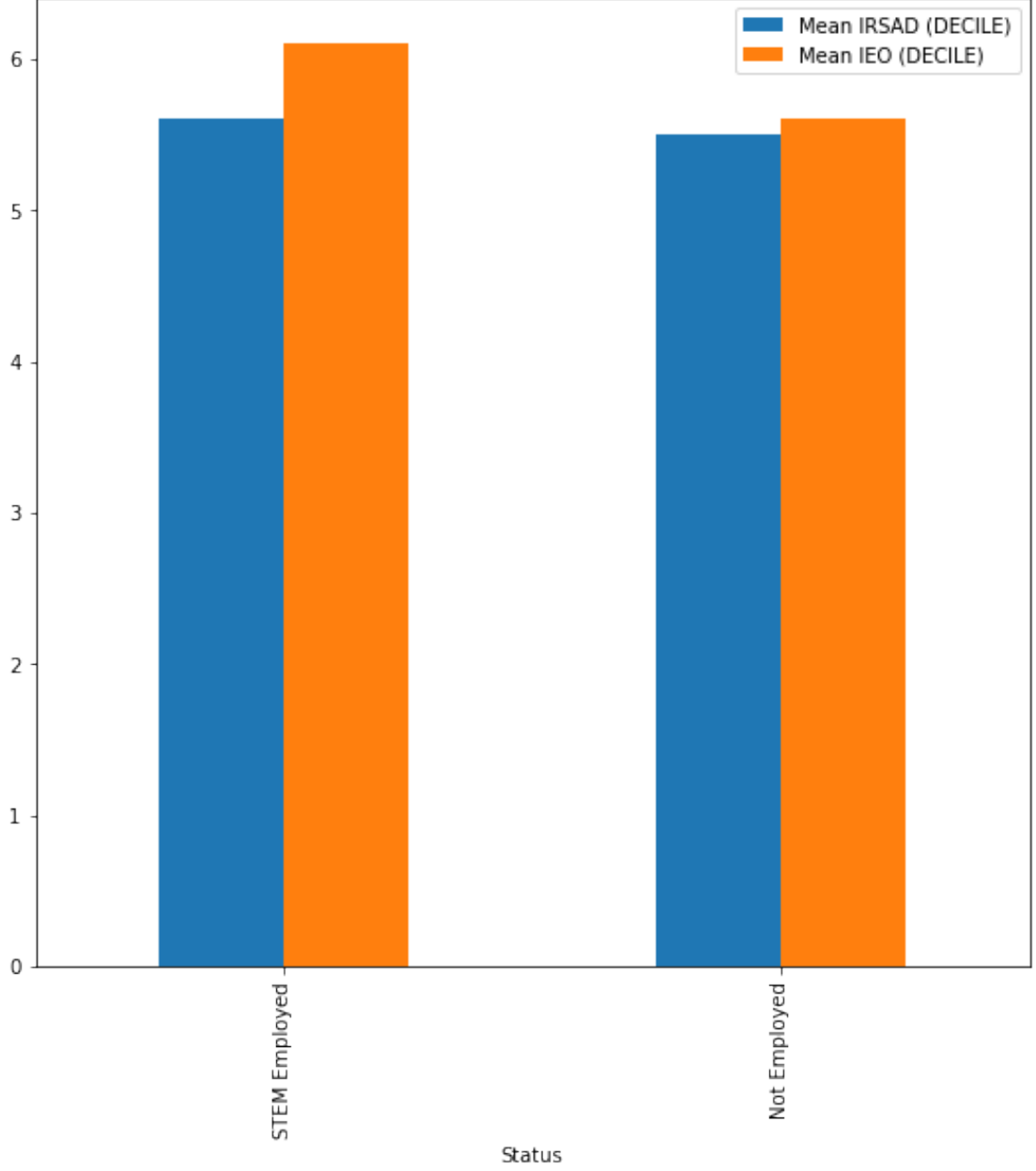


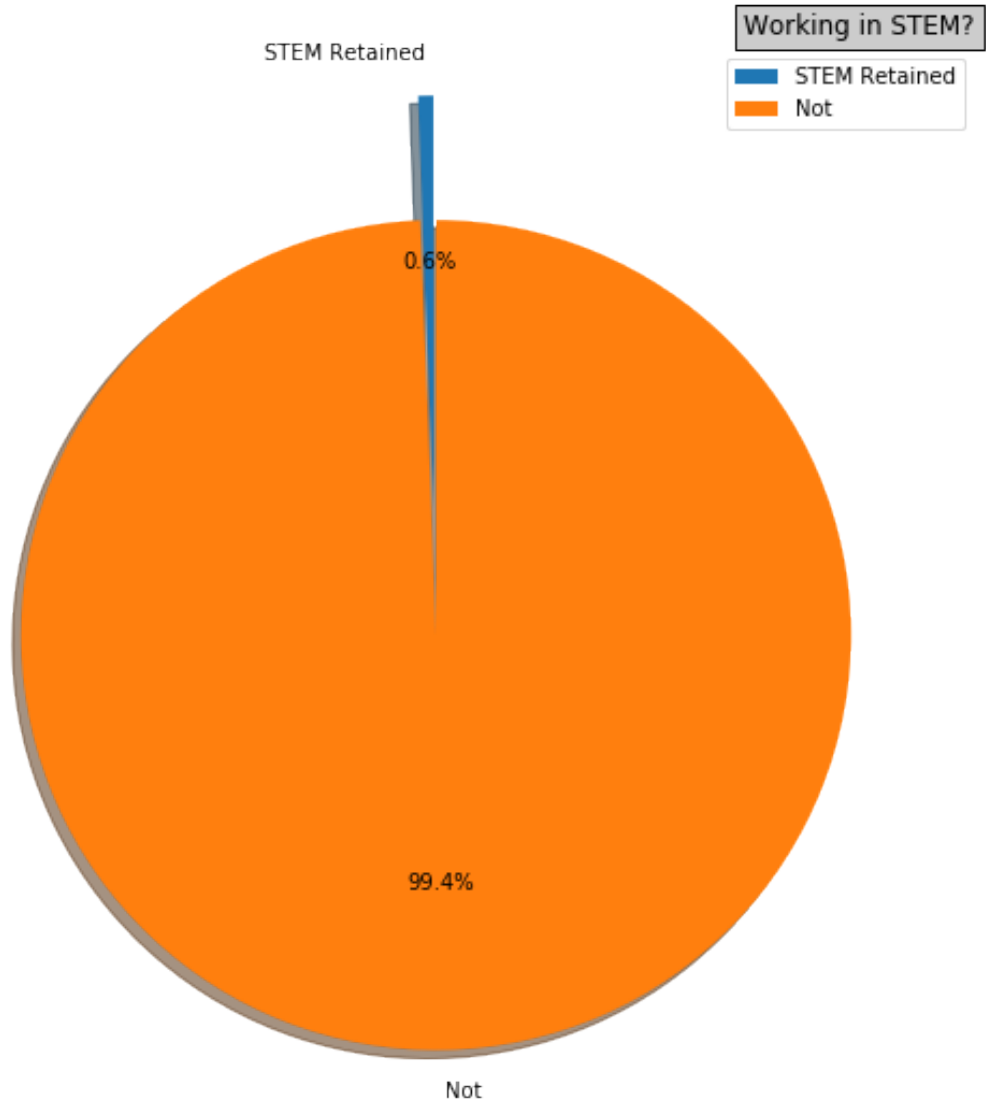
	Status	Count	Mean IRSAD (DECILE)	Mean IEO (DECILE)
0	STEM Employed	9	5.6	6.1
1	Not Employed	991	5.5	5.6

-----  
Beginning STEM Career Model...  
-----

Total number of agents who stayed in STEM for their whole career (passes): 6  
Total number of other agents (fails): 994

STEM Employment Decile Means





	Status	Count	Mean IRSAD (DECILE)	Mean IEO (DECILE)
0	STEM Retained	6	6.2	6.5
1	STEM Leavers	994	5.5	5.6

Woman from Strathfield, in Major Cities of Australia, New South Wales Made it!  
 She chose: Agriculture/Environment and did a Bachelor\s Degree

Woman from Canning Vale - East, in Major Cities of Australia, Western Australia Made it!  
 She chose: Engineering and did a Certificate III/IV

Woman from Erskineville - Alexandria, in Major Cities of Australia, New South Wales Made it!  
 She chose: Agriculture/Environment and did a Certificate III/IV

Woman from Moulden, in Outer Regional Australia, Northern Territory Made it!  
 She chose: Engineering and did a Certificate III/IV

Woman from Bowral, in Inner Regional Australia, New South Wales Made it!

She chose: Engineering and did a Certificate Other

Woman from Bidwill - Hebersham - Emerton, in Major Cities of Australia, New South Wales Made it!

She chose: Engineering and did a Certificate III/IV

---

END

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In [ ]:

In [ ]: