Ben Mears ’11
Amherst College
About Me...

- From Rochester, NY (Upstate NY)
- Computer Science and Math major at Amherst College
- One brother (22...a software engineer at Vista Print in Boston), one sister (24...dance instructor)
- Like to run and bike
And now some Amherst/UCF comparisons...

<table>
<thead>
<tr>
<th></th>
<th>Amherst College</th>
<th>UCF</th>
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</thead>
<tbody>
<tr>
<td>Founded</td>
<td>1821</td>
<td>1968</td>
</tr>
<tr>
<td>Mascot</td>
<td>Lord Jeff</td>
<td>Golden Knights</td>
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<td>Sports</td>
<td>Division III</td>
<td>Division I</td>
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<tr>
<td>Faculty</td>
<td>223</td>
<td>1428</td>
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<td>Degrees Offered</td>
<td>34</td>
<td>225</td>
</tr>
</tbody>
</table>
Total Students

Amherst College

UCF
A “Long” Walk at Amherst College

Distance:
0.33 miles
0.54 km
A Similar Walk Through Pegasus Landing

Not quite to the front yet!
The Longest You will EVER walk at Amherst College
And a similar walk at UCF...
What I’ve Found Interesting...

- Computer Vision is everywhere...

- UAV’s:
  - Aerial Action detection/classification
  - Vision to land the UAV
  - Distributed Smart Cameras

- Extraction/combining of actions of interests

- With new trends/developments in computer science and culture, new applications for C.V. emerge:
  - YouTube
  - FaceBook
Edge Detection

- Seems like such a simple task...
- Many methods each with their own advantages/disadvantages
- Steepest descent method
My Result
Result with Canny Edge detector (threshold of .5)
Conclusions

- Obviously I still have some work to do!
  - Am going to play around with choosing some different features to see if I can improve the results

- Will begin talking to others in the lab to formulate ideas for projects
  - Action detection/classification??