

R. Paul Wiegand, University of Central Florida

- **R. Paul Wiegand**

- Computer scientist, background in machine learning and optimization
- HPC User \rightsquigarrow HPC administration in 2014
- Now co-manage resources at the Advanced Research Computing Center at UCF
- Conduit for funding to expand research computing and networking here at UCF
- (Very) *not* a network engineer



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- **UCF & NSF CC*IE Funding**

- CC-NIE 2013—2015 to deploy research network & Science DMZ at UCF
- CC-IIE Engineer 2014—2017 to hire a CI Engineer to bridge campus IT and research computing



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- **UCF's Research Network**

- 10 Gbps network from border gateway to wall jacks
- Separate network from UCF enterprise network
- Encompasses both SDN and Non-SDN
- Heavily managed via ACL
- DTN has been very useful for our HPC
- Bridges facilities in college of sciences, college of engineering, and campus core, as well as HPC facilities in research park



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- **CC-IIE Successes**

- Established a formal MOA with campus IT about management of CIE's role
- We hired someone! (Joey Netterville)
 - Has substantial linux experience (which was important to me)
 - Has taken over and expanded our perfSonar configurations
 - Already engaging in the community (will attend a OIN workshop, is here today, etc.)
 - Established Research Network Governance Board for policies at UCF
 - Working with our vendor to upgrade and help upgrade and expand our SDN capabilities
 - Beginning to become familiar with UCF HPC practices and management



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- **CC-IIE Challenges**

- It took us a year and half to find someone

- Three different searches

- First one: Made an offer, but was turned down (presumably salary)
 - Second one: Insufficient number of applicants
 - Third one: Success!

- Observations:

- Finding someone with skills that overlap research computing and networking is very hard
 - No one has SDN experience (basically)
 - Once various components are factored in, it was difficult to set a competitive salary given the funding available from the grant

