

JOHN MYERS

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EDUCATION

JUNE 2019

PH.D. IN PHYSICS, UNIVERSITY OF OREGON

Advisor: Eric Torrence

Thesis: "Search For Higgs Boson Pair Production in the Fully Boosted $b\bar{b}WW^*$ Channel with $\sqrt{s} = 13\text{ TeV}$ p-p collisions with the ATLAS Detector"

MAY 2013

B.S. IN PHYSICS, THE OHIO STATE UNIVERSITY

RESEARCH EXPERIENCE

2013-PRESENT

GRADUATE RESEARCH ASSISTANT WITH UNIVERSITY OF OREGON, ATLAS, CERN

- Thesis work on the "Search for Higgs Boson Pair Production in the Fully Boosted $b\bar{b}WW^*$ Channel with $\sqrt{s} = 13\text{ TeV}$ p-p collisions with the ATLAS Detector".
- Developed method for reconstructing events with leptons contained within jets.
- Held position of HLT Reprocessing Coordinator
 - Trained, managed and coordinated a team of validation experts
- Served as Online Trigger On-Call Expert ensuring smooth data taking in ATLAS throughout 2018
- Developed Phase-II Tau Trigger Strategy
- Installed hardware for FTK commissioning

SELECT RESEARCH PRESENTATIONS

- **Trigger Report (Talk)**, ATLAS Weekly, September 2018, CERN
- **Search for Higgs Boson Pair Production with the ATLAS Detector (Poster)**, International Conference on High Energy Physics (ICHEP), July 2018, Seoul, Korea
- **Trigger Report (Talk)**, ATLAS Weekly, November 2017, CERN
- **Phase-II Tau Trigger Upgrade Study (Talk)**, TDAQ Week, September 2016, Barcelona, Spain
- **Studies of Pileup Suppression to Improve the Missing Transverse Energy Trigger Performance in the ATLAS Phase-I Upgrade (Poster)**, Meeting of Division of Particles and Fields of the American Physics Society (PDF), August 2015, Ann Arbor, MI

ADDITIONAL EXPERIENCE

- **Double Higgs Production at Colliders Workshop**, September 2018, Fermilab, USA
 - Joint CMS/ATLAS and theory workshop to discuss recent results, analysis techniques and theoretical calculations of HH production.
- **Annual Trigger Operations Workshop**, December 2018-2019, CERN
 - Workshop to review and optimize trigger operation procedures.
 - Presented results of HLT release validation procedure.
- **European School of High-Energy Physics**, September 2017, Evora, Portugal
 - Attended 33 lectures on various theoretical and experimental topics.
 - Awarded top presentation for talk on physics outreach
- **Graduate Teaching Assistant**, 2013-2015, University of Oregon
 - Lead discussion sections for undergraduate
- **Ph.D. Thesis Award**, 2019

SELECT PUBLICATIONS

- ATLAS Collaboration, "Search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode at $\sqrt{s} = 13\text{TeV}$ with the ATLAS detector", In *Journal of High Energy Physics* 2019.4 (April 2019), p.92 ISSN:1029-8479. DOI: 10.1007/JHEP(2019)092. [http://doi.org/10.1007/JHEP04\(2019\)092](http://doi.org/10.1007/JHEP04(2019)092)
 - Developed and maintained analysis framework
- ATLAS Collaboration, "Search for Higgs Boson Pair Production with the ATLAS Detector", Proceedings of the 39th International Conference of High Energy Physics, July 2018, [PoS Proceedings](#)
- A complete list of 124 published articles is available on request, or can be viewed on [INSPIRE](#)

ADDITIONAL SKILLS

- **Programming languages:** Python, C++
- **Other Relevant Skills:** ROOT, git, LaTeX, TWIKI, JIRA