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| BIOGRAPHICAL SKETCH | | | | |
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| NAME  Jaehoon Yu | | POSITION TITLE  Professor of Physics | | |
| eRA COMMONS USER NAME | |
| EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)* | | | | |
| INSTITUTION AND LOCATION | DEGREE  *(if applicable)* | | YEAR(s) | FIELD OF STUDY |
| Korea University, Seoul, South Korea | B.Sc. | | 1979 – 83 | Physics |
| Korea University, Seoul, South Korea | M.Sc. | | 1983 – 85 | Physics |
| Stony Brook University, Stony Brook, NY | Ph.D. | | 1993 | Physics |

**A. Positions**

9/12 – Present: Professor, Physics Department, Univ. of Texas at Arlington

9/06 – 9/12: Associate Professor, Physics Department, Univ. of Texas at Arlington

9/01 – 8/06: Assistant Professor, Physics Department, Univ. of Texas at Arlington

9/98 – 8/01: Associate Scientist, Computing Division, Fermi National Accelerator Laboratory

2/96 – 8/98: Research Associate, Particle Physics Division, Fermi National Accelerator Laboratory 10/93 – 2/96: Fellow/Instructor, University of Rochester, Rochetser, NY

**B. Awards and Honors**

2015: University Outstanding Research Accomplishment, Univ. of Texas at Arlington

2014: Nominee for the 2014 the Edith and Peter O’Donnell TAMEST Award of the State of Texas

2012: Outstanding Research Award, College of Science, Univ. of Texas at Arlington

2005 – 2015: Provost’s research excellence award

2010 : Sigma-Pi-Sigma Inductee

**C. Review Activities**

2013 – present National Institute for Health Expert Reviewer Pool

2012 Department of Energy National Lab Detector R&D Review Panel

2008 – present Department of Energy Advanced Fuel Cycle Research and Development Funding

2006 – present Department of Energy, Office of Science

2005 – present Nuclear Instruments and Methods A

2004 US Department of State Reviewer

2004 Korean Research Foundation

2002 Addison and Wesley

**D. Selected peer-reviewed publications**

1. Georges Aad *et al*., ATLAS Collaboration, “Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at √s=7 and 8 TeV in the ATLAS experiment,” arXiv:1507.04548 [hep-ex].
2. Georges Aad *et al*., ATLAS Collaboration, “Study of (W/Z)H production and Higgs boson couplings using H🡪WW decays with the ATLAS detector,” JHEP 1508 (2015) 137.
3. Keisuke Fujii *et al*., Linear Collider Physics Panel, “Physics Case for the International Linear Collider,” arXiv:1506.05992 [hep-ex].
4. CMS and ATLAS Collaborations, “Combined Measurement of the Higgs Boson Mass in pp Collisions at √s=7 and 8 TeV with the ATLAS and CMS Experiments,” Phys.Rev.Lett. 114 (2015) 191803.
5. Georges Aad *et al*., ATLAS Collaboration, “Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay H±🡪W±Z using pp Collisions at √s=8  TeV with the ATLAS Experiment,” Phys.Rev.Lett. 114 (2015) 23, 231801.
6. C. Adams *et al*., LBNE Collaboration, “The Long-Baseline Neutrino Experiment: Exploring Fundamental Symmetries of the Universe,” arXiv:1307.7335 (2014)
7. Compendium of Instrumentation Frontier Whitepapers on Technologies for Snowmass 2013, By H. Frisch, C. Hast, E. Ramberg, M. Artuso, A. Seiden, M. Wetstein, M.C. Sanchez, J. Fast, *et al,*
8. Georges Aad *et al*., ATLAS Collaboration, “Search for dark matter in events with heavy quarks and missing transberse momentum in pp collisions at √*s* =7 TeV with the ATLAS detector” arXiv:1410.4031 (2014)
9. Georges Aad *et al*., ATLAS Collaboration, “Search for charged Higgs bosons with √*s* =8 TeV pp collisions using the ATLAS detector” arXiv:1412.0237 (2014)
10. Georges Aad *et al*., ATLAS Collaboration, “Search for neutral Higgs boson of the minimal supersymmetric standard model in pp collisions at √*s* =8 TeV with the ATLAS detector” JHEP 1411 (2014) 056
11. CERN Yellow Report: Handbook of LHC Higgs Cross Sections: 3. Higgs Properties, By LHC Higgs Cross Section Working Group Collaboration (S Heinemeyer et al.), arXiv:1307.1347, [10.5170/CERN-2013-004](http://dx.doi.org/10.5170/CERN-2013-004).
12. Georges Aad *et al*., ATLAS Collaboration, “Evidence for the spin-0 nature of the Higgs boson using ATLAS data,” Phys. Lett. B726 (2013) 120-144
13. Georges Aad *et al*., ATLAS Collaboration, “Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC.,” Phys. Lett. B716 (2012) 1-29
14. Georges Aad *et al*., ATLAS Collaboration, “Search for the Standard Model Higgs boson in the *H*→WW(\*)→*ℓνℓν* decay mode with 4.7 fb-1 of ATLAS data at √*s* = 7 TeV,” Phys. Lett. B716 (2012) 62 – 81
15. Georges Aad *et al*., ATLAS Collaboration, “A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at √*s* =7 TeV with ATLAS,” Phys. Lett. B708 (2012) 221 – 240
16. Georges Aad *et al*., ATLAS Collaboration, “Search for the neutral Higgs bosons of the Minimal Supersymmetric Standard Model in pp collisions at sqrt(s)=7 TeV with the ATLAS detector,” arXiv:1211.6956, Submitted to JHEP (2012).
17. CERN Yellow Report, “Handbook of LHC Higgs Cross Sections: 2. Differential Distributions,” CERN-2012-002, arXiv:1201.3084 (2012).
18. Georges Aad *et al*., ATLAS Collaboration, “Combined search for the Standard Model Higgs boson in *pp* collisions at √*s* =7 TeV with the ATLAS detector,” Phys.Rev. D86 (2012) 032003
19. Georges Aad *et al*., ATLAS Collaboration, “Measurement of the isolated di-photon cross-section in pp collisions at √*s* =7 TeV with the ATLAS detector,” Phys. Rev. D85 (2012) 012003
20. Georges Aad *et al*., ATLAS Collaboration, “Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data.,” Eur.Phys.J. C72 (2012) 1909
21. Georges Aad *et al*., ATLAS Collaboration, “Search for the Standard Model Higgs boson in the decay channel H🡪ZZ(\*)🡪4l with the ATLAS detector,” Phys. Lett. B710 (2012) 383 - 402
22. Georges Aad *et al*., “Search for the Higgs boson in the H🡪WW🡪lvjj decay channel in pp collisions at √*s* =7 TeV with the ATLAS detector,” Phys. Rev. Lett. 107 (2011) 231801
23. Georges Aad *et al*., ATLAS Collaboration, “Studies of the performance of the ATLAS detector using cosmic-ray muons.” Eur. Phys. J. C71, 1593 (2011).
24. Georges Aad *et al*., ATLAS Collaboration, “Measurement of the production cross section for W-bosons in association with jets in pp collisions at √*s* =7 TeV with the ATLAS detector,” Phys. Lett. B698, 325 (2011).

**E. Selected Research Leadership Roles**

1. July 2015 – present: DUNE Beyond the Standard Model physics group convener
2. Mar. 2015 – present: Institutional Board member, Deep Underground Neutrino Experiment at Fermilab
3. Jan. 2013 – present: Linear Collider Committee Physics Panel member
4. Aug. 2013 – Jan. 2015: LBNE R&D Coordinating committee co-convener
5. Mar. 2013 – Jan. 2015: Institutional Board member, LBNE at Fermilab
6. June 2012 – present: Korean Rare Isotope Science Project Program Advisory Committee Member
7. Nov. 2012 – Dec. 2014: IEEE NPSS 2013 and 2014 International Advisory Committee Member/ High energy physics Instrumentation Topical Chair
8. Sept. 2012 – Dec. 2013: US High Energy Physics Community Planning Committee, Instrumentation Frontier Facilities Liaison
9. Jan. 2012 – Aug. 2012: Department of Energy National Laboratory Instrumentation Development Review Panel
10. Jan. 2012 – Nov. 2012: IEEE Nuclear physics Instrumentation Topical Chair
11. Jan. 2012 – Nov. 2012: Co-chair, Workshop on Future International Linear Collider (LCWS2012)
12. Feb, 2012 – May 2014 : ATLAS Neutral MSSM Higgs boson search editorial board member
13. Aug. 2010 – Feb. 2013 : ATLAS Distributed Computing Shift Coordinator
14. Jan. 2012 – Feb. 2013 : ATLAS MSSM Higgs search editorial board member
15. Mar. 2010 – Feb. 2013: ATLAS leader shifter
16. Jan. 2009 – 2014: International Linear Collider Physics Panel member representing US HEP Experimentalists
17. Feb. 2005 – present: CALICE Collaboration Steering board member
18. Feb. 2005 – present: CALICE Collaboration Technical Board member
19. Jan. 2000 – Aug. 2001: DZero Upgrade Commissioning Coordinator

## Professional Membership

* Lifetime Member of American Physics Society (APS)
  + APS Division of Particles and Fields
  + Member of APS Division of Physics of Beams
  + Member of three APS forums
* Lifetime member and a former president of Association of Korean Physicists in America (AKPA)
* Member and the president elect of Korean-American Scientists and Engineers Association (KSEA)

1. **Community Services**

* 2015 – present: President Elect, KSEA
* 2012 – present: Member of US Congressman Joe Barton’s Tarrant County Citizens’ Advisory Committee
* 2012 – present: International Advisory Committee for African School of Fundamental Physics
* 2013 – 2015: President, AKPA
* 2006: UTA Korean Student Association Advisor
* 2005 – 2006: UTA Society of Physics Student Advisor
* Multiple public talks on high energy physics, including invited talks at Arlington Engineers’ Society and Rockwall United Methodist Church Wesley Arts Lecture Series

## Advisors and Advisees

**Graduate Advisor**: Professor Robert L. McCarthy, Stony Brook University

**Postdoctoral Advisors**: Professor Fredrick Lobkowitz, U. of Rochetser; Dr. Robert Berstein, Fermilab

**Postdoctoral Fellow Supervisees:** Dr. J. Griffiths (current), Dr. A. Chaterjee (current); (Past) Dr. Seongtae Park, Dr. Thomas Wlodek, Dr. HyunWoo Kim and Dr. Aaron Thor

**Computer software professional:** Dr. Sudhamsh Reddy (past)

**Thesis Advisees**

* **Ph.D.:** Mr. Garrett Brown (current). Mr. L. Feremenga (current), Ms. Heeyeun Kim (graduated with Ph.D.), Dr. Jacob Smith (graduated with Ph.D.), Dr. Hyeonjin Kim (graduated with Ph.D.) and Dr. V. Kaushik (graduated with Ph.D)
* **M.S.:** Ms. S. Habib (graduated), Mr. V. Kaushik (graduated) and Mr. J. Smith (graduated)