

Jaehoon Yu's Curriculum Vita

Positions Held

- 3/19 – present: Distinguished Professor, Physics Department, UTA
- 9/12 – 3/19: Professor, Physics Department, UTA
- 1/09 – 8/15: Associate Chair, Physics Department, UTA
- 1/09 – 2/09: Acting Chair, Physics Department, UTA
- 9/06 – 8/12: Associate Professor, Physics Department, UTA
- 9/01 – 8/06: Assistant Professor, Physics Department, UTA
- 9/98 – 8/01: Tenure Track Associate Scientist, Computing Division, Fermilab
- 2/96 – 8/98: Research Associate, Particle Physics Division, Fermilab
- 10/93 – 2/96: Fellow/Instructor, University of Rochester
- 8/86 – 6/87: Lecturer, College of Nurses, Korea University, Seoul, Korea
- 8/86 – 6/87: Lecturer, Physics Department, Korea University, Seoul, Korea
- 8/86 – 6/87: Post Graduate Teaching Assistant, Physics Department, Korea University, Seoul, Korea

Education

- 8/93: Ph.D., Physics, State University of New York at Stony Brook
 - Adviser : Professor R.L. McCarthy
 - Thesis Topic : Determination of the Strong Coupling Constant (α_s) and a Test of Perturbative QCD, Using W+jets Processes in the DØ Detector
- 12/92: M.A., Physics, SUNY at Stony Brook
- 2/85: M.S., Physics, Korea University, Seoul, Korea
- 2/83: B.S., Physics, Korea University, Seoul, Korea

Awards:

- 2020: CERN Scientific Associate Award, Geneva, Switzerland 2019: Member, Academy of Distinguished Scholars, University of Texas at Arlington
- 2018: Distinguished Professor, Univ. of Texas, Arlington
- 2018: Inducted to the Academy of Distinguished Scholars, Univ. of Texas, Arlington
- 2016: Intensity Frontier Scholar Fellowship Award, Fermi National Accelerator Laboratory
- 2015: Presidential Award, Outstanding Research Achievement or Creative Accomplishment, University of Texas at Arlington
- 2014: *Centre National de la Recherche Scientifique (CNRS)* - Laboratoire d'Annecy le Vieux de Physique des Particules, International Exchange Scholar award
- 2013: Nominated for The Academy of Medicine, Engineering and Science of Texas, Edith and Peter O'Donnell Award for the recognition of Yu's rising researcher in the State of Texas
- 2012: College of Science Outstanding Researcher Award: 2012, College of Science, University of Texas at Arlington
- 2005 – 2015: UTA Provost's Research Excellence Award in the College of Science 10 years

in a row

Patents

C. H. Hahn, I. G. Kim, S. Park and J. Yu, "APPARATUS AND METHOD FOR ARRAY GEM DIGITAL IMAGING RADIATION DETECTOR", Publication Number: WO/2007/083859, International Application No.: CT/KR2006/000662, Publication Date: 26.07.2007, International Filing Date: 24.02.2006

Current and Recent Research Leadership

- **2020 – Present:** Snowmass 2021, Particle Physics Community Strategic Planning Studies, Beyond the Standard Model (BSM) physics at Neutrino experiments Co-convenor
- **2019 – present:** In charge of **field cage construction and the technical design report** of the high voltage system for both the horizontal drift and vertical drift TP'sC for Deep Underground Neutrino Experiment (DUNE), a \$2.5B US flagship international experiment
- **2018 – Present:** Fermilab ICARUS Experiment Institutional Board Rep.
- **2017 – 2020:** In charge of **field cage construction and the technical design report** of the high voltage system for the Dual Phase Deep Underground Neutrino Experiment (DUNE), a \$1.5B US flagship international experiment
- **2015 – 2021:** **DUNE Beyond the Standard Model Physics (BSM) group founding convenor**
- **2009 – present:** **Linear Collider Physics Panel Member**, Have been serving in the ILC physics panel as the US experiment representative since 2009.
- **2013 – 2015:** **Long Baseline Neutrino Experiment (LBNE) Beyond the Standard Model Physics group founding convenor**, I have created a new physics group and led group of physicists on exploring new physics opportunities, leveraging high intensity proton beam facility for the first time in a neutrino experiment
- **2013 – 2015:** **Long Baseline Neutrino Experiment (LBNE) R&D Coordinator**, I have led a group of about 800 physicists worldwide to work on detector R&D of the large scale liquid argon neutrino experiment, a \$850M US flagship experiment.
- **2002 – 2013:** **Linear Collider Test Beam Leadership**, Have been co-leading American Linear Collider Test Beam coordination and been leading world-wide Linear Collider Test Beam program.
- **2012 – 2016:** **ATLAS Comp@P1 Shift Co-coordinator**, I have been coordinating the merged computing shift that ensures the prompt reconstruction and distribution of ATLAS data. his program is in its fifth cycle since its inception in June 2002.
- **2010 – 2016:** **ATLAS Data Taking Shift Leader**, I led a team of data taking crew in the ATLAS main control room as the leader of the team, managing the communication between ATLAS and the CERN main beam control, managing the beam condition and in charge of operation during the 8 hour shift period.
- **2010 – 2012:** **ATLAS NLO MC Representative to the LHC Higgs Cross Section Group**, I represented ATLAS for the Next-to-Leading Order Monte Carlo implementation of the theoretical calculations of Higgs Production Cross sections since Jan. 2010, the beginning of my sabbatical stay at CERN.

Successful External Research Grant at UTA (as PI & CoPI)

1. 9/1/2019 – 8/30/2022: Fermi National Accelerator Laboratory, “MOU for ProtoDUNE2 Field Cage Construction,” **\$272,237**
2. 4/1/2017 – 3/31/2020: US Department of Energy, “Research on Elementary Particle Physics,” **\$3,520,000**

3. 4/1/2016 – 3/31/2019: National Cancer Institute, National Health Institute, “Boosting photo-induced cancer therapies through real-time image guidance,” **\$415,336**
4. 3/1/2017 – 12/31/2018: Fermi National Accelerator Laboratory, “MOU for ProtoDUNE Dual Phase Field Cage Construction,” **\$385,000**
5. 10/1/2015 – 12/31/2018: CNRS, France, “MOU for Research on WA105 Dual Phase Detector and DUNE,” **\$36,728**
6. 1/1/2016 – 12/31/2018: ETH, Switzerland, “MOU for Research on WA105 Dual Phase Detector and DUNE,” **\$27,785**
7. 7/1/2016 – 6/30/2017: National Science Foundation, “Support for Biennial African School of Fundamental Physics 2016,” **\$28,215**
8. 7/1/2016 – 6/30/2017: Fermi National Accelerator Laboratory, Neutrino Physics Center Fellowship, **\$10,000**
9. 5/1/2014 – 3/31/2017: Department of Energy, “Research on Elementary Particle Physics,” **\$2,520,000**
10. 4/1/2014 – 6/30/2015: National Science Foundation, “Support for Biennial African School of Fundamental Physics 2014,” **\$20,000**
11. 10/1/2013 – 9/30/2017: Brookhaven National Laboratory, Department of Energy, “Development of SiPM Coupling with Scintillation Counters for Range Stack Detector,” **\$46,000**
8. 4/1/2013 – 3/31/2014: Department of Energy, KA25 (former KA15), **\$50,000**
9. 7/1/2012 – 12/31/2012: Department of Energy, LCWS12 Conference Support, **\$10,000**
10. 4/1/2012 – 12/31/2013: National Science Foundation, 2012 Ghana Grid Computing School, National Science Foundation, **\$10,000**
11. 12/15/2011 – 11/30/2016: Korean Nuclear Research Infrastructure Development Grant, **\$1,100,000**
12. 5/15/2009 – 5/14/2013: Argonne National Laboratory, “MOU for ILC DHCAL Development: **\$215,000**
13. 10/1/2010 – 9/30/2013: US Department of Energy, Silicon Detector Development Funding, **\$190,000**
14. 6/1/2011 – 5/31/2013: US Department of Energy, Linear Collider Detector Development Funds, **\$28,000**
15. 6/1/2008 – 7/31/2012: US Department of Energy, Linear Collider Detector Development Priority Funds, **\$25,000**
16. 1/15/2007 – 9/30/2009: DOE/SIDAC UTA-BNL Exchange, **\$200,000**
17. 5/1/2005 – 9/30/2008: Brookhaven National Laboratory, “MOU to Brookhaven National Laboratory for ATLAS experiment,” **\$610,000**
18. 2/1/2006 – 1/31/2007: Society of Physics Student, National Chapter Grant competition, “UTA Large Cloud Chamber Prototype Construction,” **\$1,994**
19. 8/15/2002 – 8/14/2005: DOE Advanced Detector Research Grant, “Development of New Hadronic Calorimeter Technology,” **\$150,000**
20. 8/26/2002 – 5/15/2006: Fermilab exchange program, “Industrial Practicum Agreement with Fermilab on Student Support,” **\$250,000**
21. 10/1/2001 – 1/31/2013 Department of Energy, University Programs, “Research in Experimental Elementary Particle Physics,” **\$7,000,000** (combined for 13 years)
22. 10/1/2008 – 9/30/2013: Department of Energy and National Science Foundation, “ATLAS Tier 2,” **\$3,000,000**
23. 9/1/2005 – 8/31/2006: KOSEF Joint beam test with CNU, **\$30,000**

24. 2/1/2005 – 12/31/2012: Brookhaven National Laboratory, “Construction of the Intermediate Tile Calorimeter for ATLAS,” **\$323,500**
25. 5/1/2004 – 9/31/2009: US Department of Energy, Linear Collider R&D grant, ” Development of a DHCAL Using GEM,” **\$338,000**
26. 9/1/2002 – 8/31/2006: National Science Foundation, Major Research Instrumentation (MRI) Grant, ” Acquisition of High-Performance Computing and Information Storage Infrastructure at UTA,” **\$950,000**

Research Leadership and Service Roles

At UTA

1. Jan. 2020 – present: Snowmass 2021, Particle Physics Community Strategic Planning Studies, Beyond the Standard Model (BSM) physics at Neutrino experiments Co-convenor
2. Sept. 2018 – present: Fermilab SBN Program Institutional Board Rep.
3. Dec. 2015 – present: Fermilab ICARUS Experiment Institutional Board Rep.
4. Jan. 2015 – present: Fermilab DUNE Experiment Beyond the Standard Model group founding convenor
5. Jan. 2015 – present: Fermilab DUNE Experiment Institutional Board Rep.
6. Mar. 2013 – Jan. 2015: Fermilab LBNE Experiment Institutional Board Rep.
7. Dec. 2012 – Dec. 2015: ATLAS MSSM Higgs search editorial board member
8. Sept. 2012 – Dec. 2015 : Fermilab ORKA Experiment Institutional Board Rep.
9. Aug. 2012 – present: Fermilab LArIAT Experiment Institutional Board Rep.
10. Feb. 2013 – Jan. 2016: IEEE NSS 2013 High Energy Instrumentation Topical Session Co-Chair
11. Oct. 2012 – Dec. 2013: IEEE NSS 2013 International Advisory Board Member
12. Oct. 2012 – Dec. 2013: LCWS13 Tokyo Joint Program Committee member
13. Sept. 2012 – Sept. 2015: US High Energy Physics Community Planning Committee, Instrumentation Frontier Facilities Liaison
14. June 2012 – Jan. 2016: Korean Rare Isotope Science Project Program Advisory Committee Member
15. Jan. 2012 – Dec. 2012: 2011 – 2012 ATLAS MSSM Higgs search editorial board member
16. Sept. 2011 – Dec. 2012: Primary co-organizer of The International Workshop on Future Linear Colliders 2012 Conference at UTA
17. Jan. 2012 – Nov. 2012: IEEE NSS 2012, Nuclear Physics Instrumentation topical session co-convenor
18. Jan. 2012 – Aug. 2012: Primary organizer of 2012 Ghana Grid Computing School
19. Aug. 2010 – Dec. 2014: ATLAS Distributed Computing Shift Coordinator
20. Oct. 2011 – Dec. 2012: Spokesperson of the T-1010 GEM beam test experiment at Fermilab
21. Feb. 2011 – Jan. 2012: ATLAS $H \rightarrow WW \rightarrow l\nu q\bar{q}$ editorial board member
22. Jan. 2010 – Aug. 2010: ATLAS $e\gamma$ D3PD production coordinator
23. Apr. 2010 – June 2010: ATLAS $H \rightarrow ZZ \rightarrow 4e$ paper reviewer
24. Mar. 2010 – June 2016: ATLAS leader shifter
25. Sept. 2009 – Dec. 2012: US ATLAS Speakers' Bureau member
26. Sept. 2009 – Sept. 2010: Chair, US ATLAS Speakers' Bureau
27. Jan. 2009 – present: International Linear Collider Physics Panel member representing All US HEP Experimentalists
28. May 2008 – Sept. 2010: US ATLAS $e\gamma$ Object ID Algorithm Group Leader
29. Jan. 2008 – Dec. 2009: ATLAS Distributed Computing Operations Support Co-leader
30. Jan. 2007 – Sept. 2009: ATLAS Photon Algorithm performance paper primary editor
31. Jan. 2005 – Feb. 2009: Chair of the Technical Board, CALICE Collaboration
32. Feb. 2005 – Dec. 2013: CALICE Collaboration Steering board member
33. Sept. 2004 – Sept. 2009: Associate Director, High Performance Computing Across Texas (HiPCAT)
34. Jan. 2004 – Dec. 2013: World-wide Linear Collider Testbeam Co-coordinator

35. Aug. 2003 – Dec. 2013: American Linear Collider Testbeam Co-coordinator
36. April 2003 – present: Founding leader of the Distributed Organization for Scientific and Academic Research (DOSAR)
37. Feb. 2002 – Dec. 2013: CALICE Collaboration Technical Board member (Chair of the committee Jan. 2005 – Feb. 2009)
38. December 2003 – Dec. 2008: Member of the Run II DØ Editorial Board #001 - Diffractive Production, Rapidity Gaps etc.
39. Sept. 2001 – Dec. 2008: In charge of UTA DØ MC production and data reprocessing.
40. Sept. 2001 – June 2009 : Leader of UTA DØ & ATLAS Distributed Analysis Computing Group.
41. Jan. 1999 – Dec. 2008: Member of DØ Higgs physics working group
42. Sept. 2001 – Dec. 2008: DØ Captain shifts.
43. Oct. 2003 – Sept. 2004: DØ Lepton + E_T + Jets subgroup co-leader
44. Sept. 2002 – August 2003: DØ Run II Offsite Analysis Computing Task Force Member
45. February 2002 – July 2002: DØ Regional Analysis Center Working group leader
46. Sept. 2001 – Sept. 2002: DØ Run II Remote Analysis Systems coordinator
47. Sept. 2001 – August 2002: Member of DØ Computing Policy Board

Prior to UTA

48. Jan. 2000 – Aug. 2001: DØ Run II detector commissioning coordinator
49. Aug. 1998 – Jan. 2000: DØ Run II Online Event Monitoring implementation and coordination
50. Feb. 1996 – Aug. 1998: NuTeV Test Beam Commissioning and operations coordinator
51. Oct. 1993 – Jan. 1996: DØ Run I QCD-WZ Sub-group Convener

Proposal and Paper Reviews Activities (All at UTA)

- US Department of Energy National Lab R&D Review
- US Department of Energy Comparative Reviews
- US Department of Energy Proposal Reviews
- State Department ISTC Proposal Reviews
- Nucl. Instrum. and Meth. Paper Reviews
- Korean Ministry of Science Proposal Reviews

Selected list of Conference and Workshop Organizations

Conference and workshop organizations: Organized or chaired over 80 international and domestic conferences and workshops since joining UTA.

1. March 2022: The Snowmass Neutrino Frontier Workshop held at ORNL
2. Feb. 2022: Co-chaired the 2nd Workshop New Opportunities at the Next Generation Neutrino Experiments held at the U. of Pittsburg campus
3. Jan. 2020 – present: Organized several Snowmass 2021 related workshops
4. Apr. 2019 : Hosted the US DUNE Near Detector Workshop
5. Apr. 2019 : Hosted the 1st Workshop New Opportunities at the Next Generation Neutrino Experiments
6. Jan. 2015 – present: DUNE collaboration meetings, Beyond the Standard Model sessions
7. Aug. 2018: 5th African School of Fundamental Physics, Namibia
8. Aug. 2017 – Aug. 2018: Co-chair of the Science Diplomacy, US-Korea Conference on Science, Engineering and Entrepreneurship 2018, New York
9. Aug. 2017: Science Policy Forum with Korean National Assembly Members and US counter parts at the US-Korea Conference on Science, Engineering and Entrepreneurship 2017, Washington DC
10. Dec. 2016: KSEA – KAST Joint Early Career Development Forum, Vienna, Virginia
11. Aug, 2016 – Aug. 2017: Chair of the Government Science Policy forum, US-Korea
12. Aug. 2016: 4th African School of Fundamental Physics, Kigali, Rwanda
13. July, 2015 – Sept. 2016: Conference Chair, US-Korea Conference on Science, Engineering and Entrepreneurship 2016, DFW (~1,200 participants)
14. Jan. 2016: Chair, the 1st off-Fermilab campus DUNE collaboration meeting (~150 participants)
15. May 2014: AKPA Symposium, U. of Chicago, IL
16. Aug. 2014: 3rd African School of Fundamental Physics, Dhaka, Senegal
17. Apr. 2014: ATLAS Higgs Workshop, Rome, Italy
18. Sept. 2013 – Jan. 2015: Multiple LBNE R&C review by US Department of Energy
19. Sept. 2013 – Jan. 2015: Multiple LBNE R&C coordination workshops
20. Sept. 2013 - Jan. 2015: LBNE collaboration meetings, Beyond the Standard Model sessions
21. Oct. 2012 – Sept. 2013: IEEE NSS 2013 International Advisory Board Member
22. Oct. 2012 – Sept. 2013: LCWS13 Tokyo Joint Program Committee member
23. Sept. 2012 – May 2015 : US High Energy Physics Community Planning Committee, Instrumentation Frontier Facilities Liaison
24. Dec. 2011 – Nov. 2012: IEEE Nuclear Instrumentation Topical Session Convener
25. Oct. 2011 – Oct. 2012: International Workshop on Future Linear Colliders (LCWS) 2012 co-chair, Joint Program Committee Member, Program Committee Member (~300 participants)
26. Aug. 2011 – Jan. 2012: 2nd Symposium of Korean Physicists in US, Organizing chair
27. July 2011 – Present: 1st Ghanaian School of Computing Grid co-organizer
28. July 2011 – Sept. 2011: LCWS2011 QCD/Top/Loopvrein session co-convener
29. May 2011 – Apr. 2012: US-Korea Joint Workshop on Nuclear, Particle and Astro-physics co-organizer (KAIST, Daejeon, Korea)
30. Dec. 2010 – July 2011: IEEE High Energy Instrumentation Topical Session Calorimetry session Reviewer
31. Dec. 2010 – Mar. 2011: ALCPG 2011 Test Beam Session co-convener
32. Feb. 2010 – Apr. 2010: LHC Higgs Cross Section Working group inaugural workshop NLO MC co-convener

33. Jan. 2010 – Mar. 2010: Co-organized CALICE Collaboration meeting at UTA
34. Jan. 2010 – Nov. 2010: Served as one of the two conveners of the High Energy Instrumentation Topical Session for the IEEE NSS2010 Workshop in Knoxville, TN
35. Mar. 16 – 19, 2009: BNL, egamma section of US ATLAS Jamboree
36. Apr. 1 – 3, 2009: LSU, DOSAR VII Workshop
37. June 16 – 17, 2009: FNAL, CALICE Technical Board Review
38. June 17 – 19, 2009: BNL, egamam section of US ATLAS Jamboree
39. Oct. 30 – Nov. 5, 2009: LAL, Orsay, France, LCTW 2009
40. Jan. 2008 – Nov. 2008: Served as one of the two conveners of the High Energy Instrumentation Topical Session for the IEEE NSS2008 Workshop held in Dresden, Germany
41. Mar. 2008: Co-organized the 7th Distributed Organization for Scientific and Academic Research Workshop, University of Mississippi, Oxford, MS
42. Feb. 2008: Organized and hosted a biennial High Performance Computing Across Texas grid computing organization
43. Sept. 2007: Co-organized the 6th Distributed Organization for Scientific and Academic Research Workshop, Louisiana Tech. University, Ruston, LA
44. CALICE Collaboration Meeting Beam Test session, ANL: Mar. 2008
45. UTA-CNU Joint Physics Graduate Degree Symposium, May, 2008, Changwon, Korea
46. US ATLAS jamboree, BNL, June 2008
47. US ATLAS ANL-BNL-LBL joint jamboree electron-photon ID session, Sept. 2008
48. Co-organized US ATLAS BNL Jamboree electron-photon session, BNL, Dec. 2008
49. June 2007: Co-organized and chaired the test beam session at LCWS07, DESY, Germany
50. May 2007: Hosted a Korean Scientist and Engineering Association North Texas chapter Young Generation Technical Leadership Forum
51. Mar. 2007: Co-organized the 5th Distributed Organization for Scientific and Academic Research Workshop, University of Iowa, Ames, IA
52. Jan. 2007: Organized and chaired the organizing committee and served as a member of the program committee for the first international workshop for ILC beam tests at Fermilab
53. Dec. 2006: Organized and hosted a public lecture by Dr. YoungKee Kim, Fermilab Deputy Director, for DFW Korean community
54. Sept. 2006: Co-organized the 4th Distributed Organization for Scientific and Academic Research Workshop, University of Oklahoma, Norman, OK
55. June. 2006: Co-organized the 3rd CALICE Technical Board Review Workshop, DESY, Hamburg, Germany
56. Mar. 2006: Co-organized the test beam sessions for LCWS2006 ILC Workshop, Bangalore, India
57. Mar. 2006: Co-organized and hosted the 3rd Distributed Organization for Scientific and Academic Research Workshop, Sao Paulo, Brazil
58. Oct. 2005: Co-organized the 2nd CALICE Technical Board Review Workshop, DESY, Hamburg, Germany
59. Sept. 2005: Co-organized the 2nd Distributed Organization for Scientific and Academic Research Workshop, Sao Paulo, Brazil
60. Aug. 2005: Co-organized and chaired test beam sessions for the ILC Snowmass Workshop, Snowmass Village, CO

61. Apr. 2005: Co-organized the 5th DØ Southern Analysis Region Workshop, University of Mississippi
62. Mar. 2005: Organized and chaired the test beam session at LCWS 2005 workshop
63. Feb. 2005: Organized and chaired the first CALICE technical board workshop in DESY, Hamburg, Germany
64. Jan. 2005: Organized the Texas Grid organization, HiPCAT, quarterly in-person meeting
65. Dec. 2004: Organized the MRI proposal workshop
66. Sept. 2004: Co-organized and chaired the workshop for Linear Collider Calorimeter test beam program proposal at Argonne National Laboratory
67. Sept. 2004: Co-organized and co-chaired the test beam session at the European Consortium of Future Accelerator (ECFA) workshop
68. Sept. 2004: Co-organized the 4th DØ Southern Analysis Region Workshop, Kansas State University
69. Aug. 2004: Chaired two sessions at the 3rd International Computing Grid Workshop, DaeGu, South Korea
70. July 2004: Co-organized, hosted and chaired the 1st Texas High Energy Grid (THEGrid) workshop
71. July 2004: Organized and chaired the test beam session at Victoria American Linear Collider (ALC) Workshop.
72. April 2004: Co-organized the 3rd DØ Southern Analysis Region Workshop, Louisiana Tech. University
73. April 2004: Co-organized the test beam session for the International Linear Collider Workshop, Paris.
74. Jan. 2004: Hosted and chaired the DØSAR PHANTOM workshop.
75. Jan. 2004: Co-organized and chaired the test beam session at ALC Workshop at SLAC
76. September 2003: Co-organized the 2nd DØ Southern Analysis Region Workshop, Oklahoma University
77. July 2003: Co-organized and chaired the test beam session at Cornell ALC Workshop.
78. April 2003: Hosted and chaired the 1st DØ Southern Analysis Region Workshop.
79. Jan. 2003: Co-organized Arlington ALC Workshop.
80. Oct. 2002: Organized a trip of seven UTA students, presenting nine papers, to TSAPS meeting, obtaining partial support for their trip from APS
81. February 2002: Organized and chaired the 1st DØ Remote Analysis System workshop (DØRACE workshop) at FNAL
82. **Prior to UTA:** Jan. 2000 – Mar. 2001: Organized a series of four DØ Commissioning Workshops, Fermilab

Research: Workshop and Conference Participation

Conference and workshop participation: Participated in over **163** International and Domestic conferences and workshops since joining UTA in 2001.

At UTA

1. Nov. 2021: INDEEDS, Online
2. Dec. 2021: US-Korea Conference on Science, Engineering and Entrepreneurship 2021, LA, CA
3. Dec. 2020: US-Korea Conference on Science, Engineering and Entrepreneurship 2020, Online
4. Aug. 2019: NuFACT 2019, Daegu, Korea
5. Aug. 2019: US-Korea Conference on Science, Engineering and Entrepreneurship 2019, Chicago, IL
6. July 2019: APS Division of Particles and Fields, Northeastern University, Boston, MA
7. July 2019: Workshop on Future Accelerators, KAIST, Daejeon, Korea
8. Apr. 2019: US DUNE Near Detector Workshop
9. Apr. 2019: The 1st Workshop New Opportunities at the Next Generation Neutrino Experiments
10. 3 DUNE collaboration meetings, Jan., June and Sept. 2018
11. American Physical Society Meeting Texas Section, Houston, TX, Oct. 2018
12. US Department of Energy, PI meeting, Rockville, VA, Aug. 2018
13. US-Korea Conference on Science, Technology and Entrepreneurship, New York, NY, Aug. 2018
14. International Conference on High Energy Physics, Seoul, Korea, July 2018 (invited plenary talk)
15. US-Korea Conference on Science, Technology and Entrepreneurship, Washington DC, Aug. 2017
16. 5th African School of Fundamental Physics, Namibia, Aug. 2018
17. 3 DUNE collaboration meetings, Jan., June and Sept. 2017
18. DUNE Physics Week and Fermilab 50th anniversary lecture, Batavia, IL, Oct. 2017
19. CPAD 2017, U. of New Mexico, Albuquerque, NM, Oct. 2017
20. SBND collaboration meeting, Fermilab, Batavia, IL, Sept. 2017
21. Division of Particles and Fields meeting, Fermilab, Batavia, IL, Aug. 2017
22. Long Baseline Neutrino Facility Ground Breaking, July 2017
23. DUNE Long Baseline Neutrino Committee Review, Mar. 2017
24. US Department of Energy, DUNE Interim Project Review, Feb. 2017
25. Workshop on Dark Interactions, Oct. 2016
26. 3 DUNE collaboration meetings, Jan., June and Sept. 2016 (Jan. hosted at UTA)
27. US-Korea Conference on Science, Technology and Entrepreneurship, Dallas, Aug. 2016
28. Division of Particles and Fields meeting, Chicago, IL, Aug. 2016
29. Fundamental Science and Society Forum, Qui Nhon, Vietnam, Aug. 2016
30. 4th African School of Fundamental Physics, Kigali, Rwanda, Aug. 2016
31. 3 DUNE collaboration meetings, Jan. – Dec. 2015
32. US-Korea Conference on Science, Technology and Entrepreneurship, Atlanta, Aug. 2015

33. Division of Particles and Fields meeting, Ann Arbor, MI, Aug. 2015
34. World Korean Journalists Association Meeting, Seoul, Korea, April 2015
30. American Physical Society Meeting, San Antonio, TX, Mar. 2015
31. WINP 2015, Brookhaven National Laboratory, Upton, NY, Feb. 2015
32. Long Baseline Neutrino Facility, LBNF, LOI PI workshop, Fermilab, Batavia, IL, Dec. 2014
33. Program Advisory Committee, RAON, Korean Relativistic Atomic Accelerator Project, Nov. 2014
34. Next Generation Nucleon Decay and Neutrino Detectors (NNN14), Paris, France, Nov. 2014
35. US-Korea Conference on Science, Technology and Entrepreneurship, San Francisco, Aug. 2014
36. 3rd African School of Fundamental Physics, Dakar, Senegal, Aug. 2014
37. AKPA Symposium, U. of Chicago, IL, May 2014
38. ATLAS Higgs Workshop, Rome, Italy, Apr. 2014
39. Prospective in Dark Matter Workshop, Fermilab, Batavia, IL, Apr. 2014
40. 2nd African School of Fundamental Physics, Kumasi, Ghana, Aug. 2012
41. IEEE NSS 2012, Anaheim, CA, Nov. 2012
42. LCWS12, University of Texas at Arlington, Oct. 2012
43. Community Planning Meeting, Fermi National Accelerator Laboratory, Oct. 2012
44. Next Generation Nucleon Decay and Neutrino Detectors (NNN12), Fermi National Accelerator Laboratory, Oct. 2012
45. 2nd African School of Fundamental Physics, Kumasi, Ghana, Aug. 2012
46. Fermilab User's Meeting, Fermi National Accelerator Laboratory, June 2012
47. US-Korea Joint Workshop on Nuclear, Particle and Astro-physics, KAIST, Daejeon, Korea, Apr. 2012
48. 2nd Symposium of Korean Physicists in US, University of Texas at Arlington, Jan. 2012
49. SiD Workshop, SLAC National Laboratory, Stanford, CA, Dec. 2011
50. LCWS2011, Granada, Spain, Sept. 2011
51. LHC Higgs Cross Section Working Group workshop, LLR, Orsay, France, Nov. 2011
52. US – Korea Conference 2011, Park City, Utah, August 2011
53. TIPP 2011, Chicago, IL, June, 2011
54. LHC Higgs Cross Section Working Group workshop, BNL, May, 2011
55. APS April Meeting, Anaheim, CA, April 2011
56. ALCPG 2011 Workshop, U. of Oregon, OR, Mar. 2011
57. LHC Higgs Cross Section Working Group workshop, Bari, Italy, Nov. 2010
58. IEEE NPSS Workshop, Knoxville, TN, Nov. 2010
59. SiD Workshop, U. of Oregon, OR, Nov. 2010
60. Detector R&D Workshop, Fermilab, IL, Oct. 2010
61. CALICE Collaboration Meeting, Casa Blanca, Morocco, Sept. 2010
62. US ATLAS Physics Workshop, UTA, TX, Aug. 2010
63. Symposium on Advanced Physics, Univ. of Maryland, College Park, MD, Aug. 2010
64. ICHEP, Paris, France, July 2010
65. LHC Higgs Cross Section Working Group workshop, CERN, July, 2010
66. ATLAS Week, Copenhagen, Denmark, June 2010

67. LHC Higgs Cross Section Working Group workshop Freiburg, Germany, April, 2010
68. CALICE Collaboration meeting, March, 2010
69. CERN, ADC Training, Jan. 17 – 24, 2009
70. Kyungpook National University, CALICE Collaboration Meeting, Feb. 12 – 21, 2009
71. BNL, US ATLAS Jamboree, Mar. 16 – 19, 2009
72. LSU, DOSAR VII Workshop, Apr. 1 – 3, 2009
73. FNAL, CALICE Technical Board Review, June 16 – 17, 2009
74. BNL, US ATLAS Jamboree, June 17 – 19, 2009
75. NYU, US ATLAS Physics Workshop, Aug. 2 – 5, 2009
76. Leysin, France, ATLAS egamma workshop, Aug. 22 – 29, 2009
77. UNM, LCWS09, Sept. 30 – Oct. 3, 2009
78. Texas Tech University, HITCAT Meeting, Oct. 7 – 8, 2009
79. Orlando, FL, IEEE Meeting, Oct. 28 – 29, 2009
80. LCTW 2009, LAL, Orsay, France, Oct. 30 – Nov. 5, 2009:
81. DESY, Hamburg, Germany, DESY PRC, Nov. 5 – Nov. 8, 2009
82. ANL, GEM DHCAL Collaboration discussions, Nov. 13 – 14, 2009
83. CERN, ATLAS Physics and Performance Week, Nov. 28 – Dec. 6, 2009
84. ATLAS ADC Training, CERN: Jan. 2008
85. ATLAS NH Workshop, Moscow, Russia: Feb. 2008
86. CALICE Collaboration Meeting, Argonne National Laboratory: Mar. 2008
87. DOSAR Grid Computing Workshop VI, University of Mississippi, Oxford, MS; Apr. 2008
88. ATLAS Software Week, CERN: Apr. 2008
89. DHCAL SLICE Test Meeting, ANL: May 2008
90. UTA-CNU Joint Graduate Degree Symposium, CNU: May 2008
91. Symposium for Symmetry and Universe, Stony Brook, NY: June 2008
92. NA ATLAS Physics Workshop, Simon-Fraiser University, Vancouver, Canada: June 2008
93. US ATLAS jamboree, BNL: June 2008
94. ATLAS Summer Research Stay, CERN: July, 2008
95. ATLAS Summer Research Stay, CERN: Aug. 2008
96. US ATLAS ANL-BNL_LBL Joint Workshop, Berkeley, Sept. 2008
97. ATLAS egamma workshop, DESY, Hamburg: Sept. 2008
98. Silicon Detector Concept workshop, University of Colorado,
99. Seminar, University of Maryland, College Park, MD: Oct. 2008
100. IEEE NSS2008 Conference, Dresden, Germany: Oct. 2008
101. CNU College of Science Research Day, Changwon, Korea: Nov. 2008
102. LCWS 2008, University of Illinois, Chicago, IL: Nov. 2008
103. US ATLAS Jamboree, BNL, NY: Dec. 2008
104. HiPCAT Face-to-face meeting, UT Austin; Oct. 2007
105. ATLAS Software Week, CERN; Oct. 2007
106. CISAS & ISNAM Symposium, Changwon National University, Korea: Nov. 2007
107. US ATLAS Jamboree, BNL; Dec. 2007
108. Physics Department colloquium + DOSAR Grid Computing Workshop V, Louisiana Tech University, Ruston, LA; Sept. 2007

109. HiPCAT Face-to-face meeting, UT Austin; Oct. 2007
110. ATLAS Software Week, CERN; Oct. 2007
111. CISAS & ISNAM Symposium, Changwon National University, Korea: Nov. 2007
112. US ATLAS Jamboree, BNL; Dec. 2007
113. HiPCAT In-person Meeting, San Antonio, Jan. (2006)
114. SiD Collaboration Meeting, Fermilab, Dec. (2005)
115. ATLAS Software Workshop, Paris, France, Dec. (2005)
116. CALICE Technical Board Review Workshop, DESY, Hamburg, Germany, Oct. (2005)
117. CALICE Collaboration Meeting, DESY, Hamburg, Germany, Oct. (2005)
118. ILC and ALCPG Snowmass Workshop, Snowmass Village, CO, Aug. (2005)
119. ATLAS Distributed Analysis Workshop, BNL, Aug. (2005)
120. 2nd North American ATLAS Physics Workshop, Univ. of Toronto, CA, Aug. (2005)
121. ATLAS Physics Workshop, Univ. of Rome Tre, Rome, Italy, June (2005)
122. ATLAS Software Workshop, CERN, Geneva, Switzerland, May (2005)
123. International Linear Collider Workshop 2005, SLAC, CA, Mar. (2005)
124. CALICE Collaboration Meeting, Northern Illinois University, IL, Mar. (2005)
125. ATLAS Week, CERN, Geneva, Switzerland, Feb. (2005)
126. First North American ATLAS Physics Workshop, University of Arizona, Tucson, Dec. (2004)
127. Linear Collider Calorimeter Electronics mini-workshop, Argonne National Laboratory, Argonne, IL, Dec. (2004)
128. Lone-star Education And Research Network strategy workshop, University of Texas, El Paso, Dec. (2004)
129. Workshop on Linear Collider Calorimeter Test Beam program, Argonne National Laboratory, Argonne, IL, Sept. (2004)
130. Second Open Science Grid Workshop, Harvard University, Cambridge, MA, Sept. (2004)
131. European Consortium of Future Accelerator (ECFA) workshop, University of Durham, UK, Sept. (2004)
132. Forth DØ Southern Analysis Region Workshop, Kansas State University, Manhattan, KS, Sept. (2004)
133. Third International Computing Grid Workshop, DaeGu, South Korea, Aug. (2004)
134. First Texas High Energy Grid (THEGrid) workshop, UTA, July (2004)
135. American Linear Collider Workshop, Victoria, BC, Canada, July (2004)
136. SUSY 2004, Tsukuba, Japan (2004)
137. Linear Collider Software Workshop, Argonne National Laboratory, June (2004)
138. Third DØ Southern Analysis Region Workshop, Louisiana Tech. University, Ruston, LA, Apr. (2004)
139. DØSAR PHANTOM workshop, UTA, Jan. (2004)
140. First Open Science Grid Workshop, Fermilab, Jan. (2004)
141. American Linear Collider workshop, SLAC, CA, Jan. (2004)
142. DØ Grid Workshop, Fermi National Accelerator Laboratory, Oct. (2003)

143. Second DØ Southern Analysis Region Workshop, Oklahoma University, Sept. (2003)
144. OSCER Super Computing Symposium, Oklahoma University, Sept. (2003)
145. American Linear Collider Workshop, Cornell, NY, July (2003)
146. Physics Department 50th Anniversary Symposium, Korea University, Seoul, Korea, May (2003)
147. NuFACT 2003, Columbia University, New York (2003)
148. First DØ Southern Analysis Region Workshop, UTA, April (2003)
149. American Linear Collider Workshop, UTA, TX, Jan. (2003)
150. Linear Collider Software Workshop, Northern Illinois University, Nov. (2002)
151. International Workshop on Linear Colliders, JeJu, South Korea, Aug. (2002)
152. XXXth SLAC Summer Institute, SLAC, Menlo Park, CA (2002)
153. US Linear Collider Workshop, Santa Cruz, CA, July (2002)
154. DØ Workshop, Oklahoma University, OK, June (2002)
155. DØ RACE Workshop, Fermilab, Batavia, IL, Jan. (2002)
156. Workshop on GriPhyn and iVDGL, Gainesville, FL, Jan. (2002)
157. Snowmass 2001 workshop, Snowmass Village, Colorado (2001)

- 158. Prior to UTA**
159. Two talks presented at ICHEP 2000, Osaka, Japan (2000)
160. Presented at ICHEP2000, Osaka, Japan (2000)
161. The 4th Recontres du Vietnam, Hanoi, Vietnam (2000)
162. DØ Workshop, Northern Illinois University, (2000)
163. Workshop on Physics Potential at a Neutrino Factory, Monterey, CA (2000)
164. Workshop on Neutrino Factory Feasibility Study, Fermilab (2000)
165. Physics Potential & Development of $\mu^+\mu^-$ Colliders, Fairmont Hotel, San Francisco, CA (1999)
166. DØ Online workshop, Fermilab, June (1999)
167. Workshop on the Potential for Neutrino Physics at Future Muon Colliders, BNL, NY (1998)
168. ICHEP98, Vancouver, Canada (1998)
169. Plenary talk at the Fermilab Annual User's Meeting, Fermilab (1998)
170. Three papers presented at DIS98, Brussels, Belgium (1998)
171. The 33rd Recontres de Moriond, Les Arc, France (1998)
172. European Physical Society Meeting, Jerusalem, Israel (1997)
173. The 32nd Recontres de Moriond, Les Arc, France (1997)
174. Workshop on Physics at NuMI, Fermilab (1997)
175. Workshop on "Physics Confronting QCD with Experiment," Fermilab (1996)
176. Second Workshop on QCD at 2TeV, Michigan State University, MI(1995)
177. The 10th Topical Workshop on $p\bar{p}$ Collider Physics Fermilab, IL (1995)
178. The 30th Recontres de Moriond, Les Arc, France (1995)
179. DØ QCD workshop at the University of Arizona, Tucson, AZ (1995)
180. DØ workshop at the Northwestern University, Evanstone, IL (1994)
181. First Workshop on QCD at 2TeV, Michigan State University, East Lansing, MI (1993)
182. DØ workshop at SUNY at Stony Brook, Stony Brook, NY (1993)

- 183. DØ QCD workshop at the University of Arizona, Tucson, AZ (1992)
- 184. The 7th Topical Workshop on $\bar{p}p$ Collider Physics, Fermilab, IL (1988)
- 185. The 10th Topical Workshop on $\bar{p}p$ Collider Physics Fermilab, IL (1995)
- 186. The 30th Recontres de Moriond (QCD), Les Arc, France (1995)
- 187. The 22nd INS workshop on Physics with High Energy Colliders, Tokyo, Japan (1994)
- 188. The APS Division of Particle and Fields of the American Physical Society, Fermilab, Batavia, IL, Nov. (1992)

Talks, Invited Colloquia & Seminars and Presentations At UTA

- **2012**
 - “Operation plans for Long Shutdown I,” ATLAS T1/T2/T3 Workshop, CERN, Geneva, Switzerland
 - “Did We Discover the Higgs Particle?,” Invited Colloquium, University of North Texas, Denton, TX
 - “Recent LHC Higgs Results,” Invited Talk, Higgs and SUSY Joint Session, LCWS12, Arlington, TX, USA
 - “Status of GEM DHCAL,” Invited Talk, Korea ILC Workshop, Daegu, Korea
 - “Did We Discover the Higgs?,” Public Lecture, Planetarium, University of Texas, Arlington, TX 76016 (See Dallas Morning News Article”
<http://thescoopblog.dallasnews.com/2012/07/ut-arlington-professor-to-talk-about-god-particle-at-free-lecture-today.html/>) and (See the video clip of the lecture: <http://www.uta.edu/physics/events/higgsLecture072012.html>)
 - Live TV Interviews on Local TV Stations on Higgs Discovery
 - CBS, CH11: <http://www.uta.edu/physics/events/CBS07042012.html>
 - ABC, CH8: <http://www.uta.edu/physics/events/WFAA07042012.html>
 - Other Media Coverage related to LCWS12
 - ILC Newslane: <http://newslane.linearcollider.org/2012/11/01/lcws12-brings-together-clic-and-ilc-communities/>
 - ILC Newslane on Steven Weinberg Public Lecture I organized: <http://newslane.linearcollider.org/2012/11/01/the-higgs-who-cares-more-than-1200-people-did-in-arlington/>
 - Fort Worth Star Telegram: <http://www.star-telegram.com/2012/11/03/4386420/physicists-pursuing-a-new-accelerator.html#my-headlines-arlington>
 - “Use of Grid Computing in High Energy Particle Physics,” Invited Lecture, 2nd African School of Fundamental Physics, Kumasi, Ghana
 - “Search for the Higgs and the Future,” Invited Talk, 1st US-Korea High Energy, Nuclear and Astro-physics Joint Workshop, KAIST, Daejeon, Korea
 - “Recent ATLAS Higgs Results and KORIA,” Invited Seminar, University of Seoul, Seoul, Korea
 - “Recent ATLAS Higgs Results and KORIA,” Invited Talk, 2nd Symposium on Special Topics in Physics,” University of Texas, Arlington, TX, USA

- **2011**
 - “Beam Test Results and GEM DHCAL progress,” SiD workshop, SLAC National Laboratory, Dec. 2011
 - “Top/QCD/Loopvrein session summary,” LCWS2011, Granada, Spain
 - “Beam test results of GEM DHCAL Prototypes,” LCWS2011, Granada, Spain
 - 14 Invited lectures and colloquia in Han-yang University, Korea Institute for Advance Science, Seoul National University, University of Seoul, Korea University, Kyunghee University, KyeongPook National University, Korea Atomic Energy Agency, Korea Research Institute for Standards and Korea Institute for Radiation Therapy in Korea; Shinshu University and Kyushu University in Japan; Texas Christian University and University of North Texas in TX, “A Quest for the Origin of the Universe”
 - “Development of GEM DHCAL,” Calorimetry session, TIPP 2011
 - “Development of Large Scale GEM Chambers,” Gas Detectors, TIPP 2011
- **2010** (I was on sabbatical stay at CERN from Jan. – July, 2010)
 - “Status of GEM DHCAL,” SiD Workshop, Univ. of Oregon, Nov. 2010
 - “Summary for Higgs NLO MC,” LHC Higgs Cross Section Workshop, Bari, Italy, Nov. 2010
 - “Status of GEM DHCAL,” CALICE Collaboration Meeting, Casa Blanca, Morocco, Sept. 2010
 - “Status of GEM DHCAL,” RD51 mini-week, CERN, July 2010
 - “Status of Higgs NLO MC Experimentalists’ View,” LHC Higgs Cross Section Workshop, Univ. of Freiburg, Apr. 2010
 - “Plans for egamma D3PD production ATLAS,” ATLAS Week, Jan. 2010
- **2009**
 - Invited to give a 3 hour lecture at the ILC calorimeter school held at Tsinghua University, Beijing in April 2009
 - Colloquium, “GEM DHCAL for ILC and Beyond,” Florida Institute for Technology
 - Colloquium, “GEM DHCAL for ILC and Beyond,” Southern Method University
 - Colloquium, “Search for the Higgs Particle at ATLAS in Its Two Photon Final State,” Texas Tech University
 - Colloquium, “Search for the Higgs Particle at ATLAS in Its Two Photon Final State,” Han-Yang University, Seoul, Korea
 - Colloquium, “Search for the Higgs Particle at ATLAS in Its Two Photon Final State,” Korea University, Seoul, Korea
 - Colloquium, “High Energy Physics Experiments and Scientific Computing Grid,” University of Seoul, Seoul, Korea
 - Colloquium, “Detector Development Using Gas Electron Multiplier Technology,” Jeju National University, Jeju, Korea
 - Colloquium, “Detector Development Using Gas Electron Multiplier Technology,” Changwon National University, Jeju, Korea
 - HEP Seminar, “GEM DHCAL for the ILC,” Seoul National University, Seoul, Korea

- **2008**
 - “Future Strategy of DOSAR,” DOSAR Grid Computing Workshop V, Louisiana Tech University, Ruston, LA; Sept. 2007
 - “GEM DHCAL Development,” CISAS & ISNAM Symposium, Changwon National University, Korea: Nov. 2007
 - “ADC Operations Support Plans,” ATLAS ADC Training, CERN: Jan. 2008
 - “UTA GEM DHCAL Development Status and Plans,” CALICE Collaboration Meeting, Argonne National Laboratory: Mar. 2008
 - “ADC Operations Support Status and Plans,” ATLAS Software Week, CERN: Apr. 2008
 - “UTA GEM DHCAL Status,” DHCAL SLICE Test Meeting, ANL: May 2008
 - “GEM Detector and Its Use,” UTA-CNU Joint Graduate Degree Symposium, CNU: May 2008
 - “ATLAS Egamma Performances,” NA ATLAS Physics Workshop, Simon-Fraiser University, Vancouver, Canada: June 2008
 - “US ATLAS egamma plans,” US ATLAS jamboree, BNL: June 2008
 - “US ATLAS egamma working group plans and strategies,” US ATLAS ANL-BNL_LBL Joint Workshop, Berkeley, Sept. 2008
 - “Search for Higgs at ATLAS,” Seminar, University of Maryland, College Park, MD: Oct. 2008
 - “GEM DHCAL Status,” IEEE NSS2008 Conference, Dresden, Germany: Oct. 2008
 - “GEM and Its use in HEP and as Imaging Device,” CNU College of Science Research Day, Changwon, Korea: Nov. 2008
 - “NA ATLAS egamma Working Group Status and Plans,” US ATLAS Jamboree, BNL, NY: Dec. 2008
- **2007**
 - “High Energy Physics and Computing Grid,” Physics Department colloquium, Louisiana Tech University, Ruston, LA; Sept. 2007
 - “SiD Test Beam Program,” SiD Workshop, SLAC, CA
 - “Charge to IDTB07 Workshop,” ILC Test Beam Workshop, Fermilab, Illinois
 - “IDTB Workshop Summary and ,” IL
 - “UTA GEM DHCAL Status,” BILCW07, Institute for High Energy Physics, Beijing, China
 - “UTA GEM DHCAL Updates,” LCWS07, DESY, Hamburg, Germany
 - “UTA GEM DHCAL Updates,” SiD Workshop, Fermilab, Illinois
 - “GEM DHCAL Updates,” CALICE Collaboration Meeting, Kobe, Japan
 - “Technical Board Review Report,” CALICE Collaboration Meeting, Kobe, Japan
 - “US ILC Test Beams,” NSF-DOE Joint US ILC R&D Review, ANL, Illinois
 - “Gas DHCAL R&D,” World-wide Calorimeter R&D Review,” DESY, Hamburg, Germany
 - “UTA Site Report,” DOSAR Workshops at Oklahoma University and Iowa State University
 - “EG2 CSC Note Status,” ATLAS e-gamma meetings, CERN, Geneva

- Three colloquia and public lectures at Changwon National University in various departments
- “High Energy Physics, GEM and the Universe,” Invited Seminars at Ewha Woman’s University, Seoul, Korea; Han-Yang University, Seoul, Korea; Korea National University of Education, Korea; University of Maryland, College Park, Maryland
- “SiD Test Beam Plans,” SiD Collaboration Meeting, Fermilab, Dec. 2005
- **2006**
 - “GEM DHCAL Detector Development Status,” ALCPG Workshop, U. of British Columbia, Vancouver, Canada;
 - “LC Test Beam Activities,” ALCPG Workshop, U. of British Columbia, Vancouver, Canada;
 - “Test Beam Session Summary Plenary Talk,” ALCPG Workshop, U. of British Columbia, Vancouver, Canada;
 - “Status of the DOSAR Grid,” 2nd Distributed Organization for Scientific and Academic Research Workshop, Sao Paulo, Brazil;
 - “ILC Test Beam Program at Fermilab,” 1st SiD collaboration meeting, Fermilab
 - “GEM DHCAL Detector Development Status,” ALCPG, U. of British Columbia, Vancouver Canada
 - “Computing Grid in High Energy Physics,” Invited Plenary Talk, 1st Korean High Energy Physics Symposium, Seoul, Korea
 - Several colloquia and public lectures at Changwon National University in various departments
- **2005**
 - “GEM Chamber Characteristics Study Using Cs¹³⁷ Source,” ILC and ALCPG Snowmass Workshop, Snowmass Village, CO, Aug. 2005
 - “GEM Simulation Studies,” ILC and ALCPG Snowmass Workshop, Snowmass Village, CO, Aug. 2005
 - “Electron/Photon Reconstruction in Commissioning,” 2nd NA ATLAS Physics Workshop, Univ. of Toronto, Toronto, CA, Aug. 2005
 - Invited Seminar and Colloquia at **seven** Korean Universities and **one** Research Institute: “The International Linaer Collider and Its Calorimeter Development,” SungKyunKwan University, Korea University, KonKuk University, KyungPook National University, GyeongSang National University, ChangWon National University, Seoul National University, Korean Atomic Energy Research Institute; Korea, May 2005.
 - “Development of H-Matrix e-ID,” ATLAS Software Workshop, CERN, May 2005
 - “ILC Calorimeter/Muon Detector Test Beam Program at Fermilab,” Fermilab Physics Advisory Committee Meeting, Apr. 2005
 - “Simulation Studies of GEM-DHCAL,” LCWS 2005, SLAC, Mar. 2005
 - “ILC Test Beam Summary,” LCWS 2005, SLAC, Mar. 2005
- **2004**
 - “ALC Calorimeter Working Group Summary,” European Consortium for Future Accelerators Workshop, Durham, UK, September 2004.

- “Digital Hadron Calorimeter Using GEM,” European Consortium for Future Accelerators Workshop, Durham, UK, September 2004.
- “ALC Testbeam Group Status,” American Linear Collider Workshop, Victoria, Canada, July 2004.
- “DØSAR, Where are we and where are we going?” Forth DØSAR Workshop, Kansas State University, September 2004.
- “DØ, A HEP Experiment and Scientific Computing Grid,” Physics Department Colloquium, Kansas State University, September 2004.
- “High Energy Physics Perspectives on High Speed Computing Network,” LEARN Strategy workshop, Univ. of Texas at El. Paso, Dec. 2004
- “High Energy Physics and Computing Grid,” 2003 Tech. Fair, UTA, Oct. 2003.
- “DØ, A High Energy Physics and Its Computing Grid,” Physics Department Colloquium, UTA, Oct. 2003.
- “High Energy Physics and Computing Grid,” 2004 Engineering Week, UTA, Feb. 2004.
- “GEM DHCAL Detector Performance and Energy Flow Algorithm Studies,” American Linear Collider Workshop, SLAC, Jan. 2004.
- “US LC TB Activities,” American Linear Collider Workshop, SLAC, Jan. 2004.
- “Testbeam Session Summary,” American Linear Collider Workshop, SLAC, Jan. 2004.
- “Status of UTA IAC,” 2nd DØ Southern Analysis Region Workshop, Louisiana Tech. University, Ruston, Louisiana, April 2004.
- “GEM DHCAL Detector Performance and Energy Flow Algorithm Studies,” Linear Collider Workshop (LCWS2004), Paris, France, April 2004.
- “Texas High Energy physics Computing Grid (THEGrid),” HiPCAT meeting, University of Houston, Houston, Texas, May 2004.
- “GEM DHCAL Detector Performance and Energy Flow Algorithm Studies,” Linear Collider Simulation Workshop, ANL, Argonne, IL, June 2004.
- “Searches for Squark, Gluino and Large Extra Dimension in E/τ +Jets Topology at DØ,” SUSY 2004, Tsukuba, Japan, June 2004.
- “GEM DHCAL Detector Performance and Energy Flow Algorithm Studies,” American Linear Collider Workshop, Victoria, Canada, July 2004.
- “ALC Testbeam Group Status,” American Linear Collider Workshop, Victoria, Canada, July 2004.
- “HEP Data Grid for DØ and Its Regional Grid, DØSAR Grid,” Invited Plenary Talk, Third International Grid Workshop, DaeGu, Korea, August 2004.
- **2003**
 - “Test Beam: Calorimetric Wishes,” American Linear Collider Workshop, UTA, Jan. 2003.
 - “Calorimeter Testbeam Summary,” Plenary talk, American Linear Collider Workshop, UTA, Jan. 2003.
 - “DØ Southern Analysis Region Workshop Goals and Organization,” 1st DØ Southern Analysis Region Workshop, UTA, April 2003.
 - Invited Seminar and Colloquia at seven Korean Universities: “Status of DØ Experiment and Implementation of Its Data Grid,” SungKyunKwan University, Korea University, KunKuk University, KyungPook National University,

GyeongSang National University, POSTECH, Yeonsei University; Korea, May 2003.

- “High Energy Physics and Computing Grid,” Invited symposium lecture, Physics Department 50th Anniversary Symposium, Korea University, Seoul, Korea, May 2003.
- Invited talk “Precision Measurement of $\sin^2\theta_W$ at a Neutrino Factory,” NuFact’03, 5th International Workshop on Neutrino Factories & Superbeams, Columbia University, June 2003.
- “Precision Measurement of $\sin^2\theta_W$ at The Neutrino Factory,” NuFACT 2003, Columbia University, New York (2003)
- “GEM DHCAL Simulation Progress,” American Linear Collider Workshop, Cornell, July 2003.
- “Status of GEM DHCAL,” CALICE collaboration meeting, DESY, Hamberg, Germany, July 2003.
- “LC TB Goals and Organization,” American Linear Collider Workshop, Cornell, July 2003.
- “Status of UTA IAC,” 2nd DØ Southern Analysis Region Workshop, Oklahoma University, Norman, Oklahoma, Sept. 2003.
- “DØ Southern Analysis Region,” Poster presentation, 2nd OSCER Super Computing Symposium, Oklahoma University, Norman, Oklahoma, September 2003.
- “Southern Analysis Region Activity Report,” DØ Grid workshop, Fermilab, Oct. 2003.
- **2002**
 - UTA Department colloquium, Jan. 2002
 - Plenary Talk at DØRACE workshop, Feb. 2002.
 - Invited seminar at Rice University, May 2002.
 - Plenary talk at the Oklahoma DØ Workshop, July, 2002.
 - Invited Lecture at the SLAC Summer Institute, Aug. 2002.
 - Invited Seminar and Colloquia at six Korean Universities: “Status of DØ and its data grid,” Seoul National University, Korea University, YeonSei University, SungKyunKwan University, GyeongSang National University, KyungPook National University; Korea, Aug. 2002.
 - Presentation at International Workshop on Linear Collider 2002, JeJu, Korea, Aug. 2002.
 - “Precision Measurement of $\sin^2\theta_W$ at from NuTeV,” XXXth SLAC Summer Institute, SLAC, Menlo Park, CA (2002)
 - “Digital HCAL Using GEM,” LCDsoft, Northern Illinois University, De Kalb, Illinois, November 2002.

- **Prior to 2001 (Before UTA)**

- Invited presentation at NSF Grid computing meeting, Aug. 2001.
- Invited seminar at The University of Michigan, Nov. 2001.
- Seminar at **Four** Korean universities: “Physics Potential of the DØ Upgrade and TeVatron,” KyungPook National University, Tae-Gu; SungKyunKwan University, SuWon; Korea University, Seoul; YeonSei University, Seoul, Korea (2000)
- Seminars at **Four** Korean Universities: “Precision Measurement of $\sin^3 \theta_W$ at $\nu - N$ Scattering; Past, Present, and Future,” KyungSang National University, Jin-Ju; KyungPook National University, Tae-Gu; Korea University, Seoul; Seoul National University, Seoul; HanYang, University, Seoul, Korea (1999)
- Seminars at **two** European universities: “ $\nu - N$ DIS QCD and EW Results,” NIKHEF, Amsterdam, Netherlands; University of Geneva, Switzerland (1998)
- Seminars at **two** European universities: “QCD results from $\nu - N$ DIS,” DESY, Hamburg, Germany; University of Durham, UK; SACLAY, France (1997)
- Seminars at **three** European institutions “DØ QCD results,” CERN PPE seminar; Saclay; University of Durham, UK (1995)
- Seminars at **three** Korean universities: “DØ QCD results,” Kun-Kuk University, Seoul, Korea; Korea University, Seoul, Korea; Seoul National University, Seoul, Korea (1994)

Schools Attended (all prior to UTA)

1. The 1994 NATO Advanced High-Energy physics summer school.
2. The 1992 CTEQ Summer School : “QCD Analysis and Phenomenology”.
3. The 1990 SLAC Summer Institute: “Gauge Bosons and Heavy Quarks”.

Teaching (All at UTA)

Lectures, research projects and special problems

1. Fall 2019: PHYS 1444, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
2. Summer 2019: PHYS 1444, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
3. Spring 2019: PHYS 3313, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
4. Fall 2018: PHYS 1444, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
5. Summer 2018: PHYS 1444, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
6. Spring 2018 (On sabbatical in Geneva, Switzerland): PHYS 4181, PHYS 4281, PHYS 5694, PHYS 6699
7. Fall 2017: PHYS 1444, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
8. Summer 2017: (At Fermilab on fellowship) PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
9. Spring 2017: PHYS 3313, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
10. Fall 2016: PHYS 3446, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
11. Summer 2016: PHYS 1444, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
12. Spring 2016 (On sabbatical in Geneva, Switzerland): PHYS 4181, PHYS 4281, PHYS 5694, PHYS 6699
13. Fall 2015 (On sabbatical in Geneva, Switzerland): PHYS 4181, PHYS 4281, PHYS 5694, PHYS 5394, PHYS 6699
14. Summer 2015: PHYS 1441, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
15. Spring 2015: PHYS 3313, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
16. Fall 2014: PHYS 1443, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
17. Summer 2014: PHYS 1441, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
18. Spring 2014: PHYS 3313, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
19. Fall 2013: PHYS 3313, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
20. Summer 2013: PHYS 1442, PHYS 4181, PHYS 4281, PHYS5694, PHYS 6699
21. Spring 2013: PHYS 1441, PHYS 4281, PHYS 5694, PHYS 6699
22. Fall 2012: PHYS 3313, PHYS 5694, PHYS 5394, PHYS 6699
23. Summer 2012: PHYS 1441, PHYS1443, PHYS5694
24. Spring 2012: PHYS 1188, PHYS 1444, PHYS 4281, PHYS 5694, PHYS 6699
25. Fall 2011: PHYS 1444, PHYS 5694, PHYS 5394, PHYS 4281
26. Summer 2011: PHYS 1443, PHYS 5694, PHYS 5394, PHYS 4281
27. Spring 2011: PHYS 1443, PHYS 5694, PHYS 5394, PHYS 4281
28. Fall 2010: PHYS 1441, PHYS 5694, PHYS 5394, PHYS 4281
29. Summer 2010: On sabbatical at CERN, PHYS 5694, PHYS 5394, PHYS 4281
30. Spring 2010: On Sabbatical at CERN, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
31. Fall 2009: PHYS 1441, PHYS 6999, PHYS 5694, PHYS 5394, PHYS 4281
32. Summer 2009: PHYS 1442, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
33. Spring 2009: PHYS 1441, PHYS 5694, PHYS 5394, PHYS 4281
34. Fall 2008: PHYS 1443, PHYS 5694, PHYS 5394, PHYS 4281
35. Summer 2008: PHYS 1441, PHYS 5694, PHYS 5394, PHYS 4281
36. Spring 2008: PHYS 1441, PHYS 5694, PHYS 5394, PHYS 4281
37. Fall 2007: PHYS 1443, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
38. Summer 2007: PHYS 1443, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
39. Spring 2007: PHYS 5326, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281

40. Fall 2006: PHYS 3446, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
41. Summer 2006: PHYS 1443, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
42. Spring 2006: PHYS 1444, PHYS6999, PHYS 5694, PHYS 5394, PHYS 4281
43. Fall 2005: PHYS 1444, PHYS 5694, PHYS 5394, PHYS 4281
44. Spring 2005: PHYS 3446, PHYS 5694, PHYS 4281 (Developed a new course, PHYS-3446, together with corresponding laboratory sessions.)
45. Fall 2004: PHYS 1443, PHYS 5394, PHYS 5694, PHYS 4281
46. Summer 2004: PHYS 1441, PHYS 5394
47. Spring 2004: PHYS 1441, PHYS 5394, PHYS 5698
48. Fall 2003: PHYS 1443, PHYS 5394
49. Spring 2003: PHYS 5326, PHYS 5698, PHYS 5394 (Developed a new graduate course, PHYS-5326.)
50. Fall 2002: PHYS 1443, PHYS 5394
51. Summer 2002: PHYS 5394
52. Spring 2002: PHYS 1443

Student Supervision: Current (Total of 13):

1. Aayush Bhattarai (physics)
2. Michael Solek (physics)
3. Eric Garcia (physics)
4. Morgan Elliott (Physics)
5. Brian Reid (physics)
6. Rohit Raul (physics)
7. Skyler Ryu (U. of Chicago)
8. Cristobal Garces (In Georgia Tech graduate program as of Jan. 2022)
9. Cristian Garces (In UTA graduate program as of Sept. 2021)
10. Ahmed Bedair (In UTA graduate program as of Jan. 2022)
11. Gajendra Gurung (In UTA Physics Ph.D. Program as of Jan. 2022)
12. Steven Boucher (physics – no longer with the group as of Jan. 2022)
13. Harsh Prasad (ME – no longer with the group as of Jan. 2022)

Student Supervision: Graduated (All at UTA)

1. Physics Advisees

- a. Ph.D.
 - i. Jan. 2022 – present: Gajendra Gurung
 - ii. Fall 2018 – Present: H. Carranza
 - iii. Fall 2014 – Fall 2018: S. Shamsavarani (Joint with Dr. Farbin)
 - iv. Fall 2011 – Fall 2016: L. Feremenga
 - v. Fall 2009 – Summer 2015: Heeyeon Kim
 - vi. Fall 2007 – Summer 2012: J. Smith
 - vii. Fall 2005 – Summer 2010: Hyeonjin Kim
 - viii. Fall 2004 – Fall 2007: V. Kaushik
- b. M.S.
 - i. Jan. 2016 – Summer 2018: G. Brown
 - ii. Fall 2007 – Spring 2009: J. Smith
 - iii. Summer 2002 – Summer 2004: V. Kaushik

- iv. Summer 2002 – Summer 2003: S. Habib
 - c. B.S.
 - i. Spring 2011 – Aug. 2012: D. Pray
 - ii. Spring 2011 – Aug. 2012: S. Khaled
 - iii. Fall 2009 – Summer 2011: E. Baldelomar
 - iv. Fall 2003 – Spring 2007: J. Smith
 - v. Fall 2003 – Spring 2005: D. Jenkins
- 2. **Engineering Advisees** : As an interdisciplinary research and education activity, I set up two exchange programs with Fermi National Accelerator Laboratory and Brookhaven National Laboratory independently and selected a handful of Computer Science and Engineering students every year to participate in computing grid research and write up their research in their theses. These students received local supervision from laboratory personnel and myself during their stay at the two laboratories. They wrote their theses with their advisors in the CSE department and defended them. I supervised them on their projects at the labs, read and commented on their theses and served on their defense committees.
 - a. Computer Science and Engineering Ph.D.:
 - i. Oct. 2006 – Aug. 2011: P. Chiu
 - ii. Oct. 2008 – Feb. 2010: A. Thor
 - iii. Oct. 2006 – Sept. 2007: P. Thilagar
 - b. Computer Science and Engineering M.S.:
 - i. Mar. 2005 – Mar. 2006: S. Reddy
 - ii. Mar. 2005 – Mar. 2006: P. Thilagar
 - iii. Fall 2004 – Summer 2005: A. Rajendra
 - iv. Fall 2004 – Spring 2005: B. Balan
 - v. Fall 2003 – Fall 2004: A. Nyshanda
 - vi. Fall 2003 – Fall 2004: S. Jain
 - vii. Spring 2003 – Fall 2003: P. Mhashilkar
 - viii. Spring 2003 – Fall 2003: V. Muthari
 - ix. Fall 2002 – Spring 2003: K. Sambandan
 - x. Fall 2001 – Spring 2002: A. Dattreya
 - xi. Fall 2001 – Fall 2002: A. Balasubramanian
 - xii. Summer 2002 – Fall 2002: A. Rana
 - xiii. Summer 2002 – Fall 2002: S. Partil

Postdoctoral Fellow and Computer Professional Supervision:

1. Jan. 2020 – present: Dr. Wooyoung Jang
2. Dec. 2014 – Sept. 2019: Dr. A. Chatterjee
3. June 2012 – Jan. 2016: Dr. J. Griffiths
4. Nov. 2008 – May 2016: Dr. Seongtae Park
5. June 2006 – June 2009: Mr. S. Reddy (Computer professional)
6. Mar. 2003 – Jan. 2006: Dr. Hyunwoo Kim (Working for a Korean Institute)
7. Sept. 2001 – Aug. 2002: Dr. T. Wlodek, Currently working for Brookhaven National Laboratory

UTA University Services: Department and University Committees

Sept. 2009 – Present: Chair, University Radiation Safety Committee
Feb. 2009 – present: Chair, Class Scheduling committee
Sept. 2010 – present: Faculty Awards and Recognition Committee
Sept. 2010 – present: Chair, Department Records and Statistics Committee
Sept. 2010 – present: Periodic Review of Tenure Committee
Sept. 2009 – present: Opportunity Hire Committee
Sept. 2009 – present: Undergraduate Curriculum Committee
Sept. 2009 – present: Space Retention, Acquisition and Allocation Committee
Nov. 2012 – Jan. 2014: COS Strategic Planning Committee
Sept. 2010 – Sept. 2015: Chair, Unit Effectiveness Planning Committee
Jan. 2009 – Sept. 2015: Associate department chair
Jan. 2009 – Feb. 2009: Acting Department chair
Oct. 2009 – June 2010: HEP Theory Search committee
Sept. 2008 – May 2009: Nano-bio faculty search committee
Sept. 2006 - Aug. 2010 : Promotion and Tenure Committee
Sept. 2006 - Present: Public Information Committee
Sept. 2006 – present: Machine shop Committee
Sept. 2005 – Present : Competitive Hire Committee
Mar. 2005 – June 2006: Physics Department World Year of Physics Committee
Oct. 2004 – June 2005: Space Science Search Committee
Oct. 2004 – present: Physics Department Chair's Committee
Winter 2004, Summer 2004 and Winter 2002: Physics Qualifying Exam Committee
Sept. 2002 – Aug. 2009 : Physics Department Graduate Admissions Committee
Sept. 2002 – Aug. 2008: University CSEMS Scholarship Committee
Jan. 2002 – Aug. 2008: Physics Department Recruitment Committee
Sept. 2001 – present: Physics Department Graduate Studies Committee
Sept. 2001 – Aug. 2006: Physics Department New Building Committee

University Services: M.S. and Ph.D. Defense Committee membership (25)

Name	Department	Thesis Title	Degree	Defense Date
D. Sessumes	Physics	Multiple Coulomb Scattering in the LArIAT Detector	M.S.	Dec. 2018
S. Shahsavarani	Physics	A Measurement of Electron-Neutrino Elastic Scattering Cross Section at Mini Booster Neutrino Experiment	Ph.D.	May 2018
G. Brown	Physics	Sensitivity Study for Low Mass Dark Matter Search at DUNE	M.S.	May 2018
L. Feremenga	Physics	Searches For The Exclusive Neutral Higgs and the Charged Higgs Bosons with the ATLAS Detector	Ph.D.	Dec. 2016
B. Izudike	Physics	Investigation of KeV beta particle transportation in matter	M.S.	Aug. 2015
Heeyeon Kim	Physics	Precision Higgs Coupling Measurements in $H \rightarrow WW \rightarrow l\nu l\nu$ Final State with the ATLAS Detector at the LHC	Ph.D.	May 2015
M. Gomez	Physics	The WIMP-Induced Gamma Ray Spectrum of Active Galactic Nuclei	Ph.D.	May 2014
I. Howley	Physics	Search for the standard model Higgs Boson in $e^+\tau$ final states	Ph.D.	May 2013
J. Smith	Physics	Optimization of energy resolution in the digital hadron Calorimeter using longitudinal weights	Ph.D.	May 2013
P. Chiu	CSE	Generalized Reinforcement Learning With An Application In Generic Workload Management System	Ph.D.	Aug. 2011
H. Brown	Physics	Calibration of the ATLAS Intermediate tile Calorimeter	M.S.	Apr. 2011
Hyeonjin Kim	Physics	Search For Standard Model Higgs In Two Photon Final State At Atlas	Ph.D.	Aug. 2010
J. Smith	Physics	Development And Characterization Of Gas Electron Multiplier Chambers For A Digital Hadron Calorimeter In The International Linear Collider	M.S.	May 2009
V. Kaushik	Physics	A Search For Associated Production Of The Higgs Boson With A W Boson Using The D-Zero Detector At The Fermilab Tevatron Collider	Ph.D.	Dec. 2007

P. Thilagar	CSE	Panda Monitoring – A System To Monitor High Performance Computing For The ATLAS Experiment Design, Development, Implementation And Deployment Of A Prototype	M.S.	Dec. 2007
S. Reddy	CSE	Bridging Two Grids: The SAM Grid/LCG Integration Project	M.S.	Mar. 2006
B. Balan	CSE	Enhancements To The Sam-Grid Infrastructure	M.S.	Dec. 2005
M. Strang	Physics	First Observation of Dijet Events with an Antiproton Tag at $\sqrt{s}=1.96$ TeV Using the DØ Forward Proton Detector	Ph.D.	July 9, 2005
A. Rajendra	CSE	Integration of the SAM-Grid Infrastructure for the DØ Data Reprocessing Effort	M.S.	Aug. 4, 2005
S. Jain	CSE	Abstracting The Heterogeneities of Computational Resources in The SAM-Grid to Enable Execution of High Energy Physics Application	M.S.	Nov. 17, 2004
A. Nishandar	CSE	Grid-to-Fabric Interface for Job Management in SAM-Grid, A Distributed Data Handling And Job Management System for High Energy Physics Experiments	M.S.	Nov. 17, 2004
V. Kaushik	Physics	Performance of Novel Digital Hadron Calorimeter Using Gas Electron Multiplier (GEM) and the Energy Flow Algorithm Development	M.S.	April 29, 2004
S. Habib	Physics	Simulation Studies of New Digital Hadronic Calorimeter Using Gas Electron Multiplier (GEM)	M.S.	June 25, 2003
A. Rana	CSE	A Globally Distributed Grid Monitoring System to Facilitate High-Performance Computing at DØ/SAM-Grid (Design, Development and Implementation of A Prototype)	M.S.	Nov. 12, 2002
A. Balasubramanian	CSE	Framework for the Control and Monitoring of Grid based Data-Intensive Applications	M.S.	Nov. 22, 2002

* Note: The students in the shaded area have graduated under my direct supervision, five physics Ph.D.'s and four physics M.S. degrees. Of the five Ph.D.'s, three obtained postdoctoral positions in Univ. of Arizona at Tucson, The University of Stockholm, Sweden and the University of Maryland, MD, and two obtain positions in industry.

Outreach, Recruitment and Community Services at UTA

International student recruitment activities:

1. Visit several Korean universities regularly and give invited colloquia, seminar and public lectures to recruit graduate students from 2002 through present days
2. Organized a college night in Rwanda, Africa, as part of the program in the biennial African School of Fundamental Physics in 2016
3. Organized a college night in Senegal, Africa, as part of the program in the biennial African School of Fundamental Physics in 2014
4. Organized a college night in Ghana, Africa, as part of the program in the biennial African School of Fundamental Physics in 2012
5. Established UTA-Changwon National University Physics Department Exchange Program in 2008 and hosted a symposium at CNU
6. Pursuing establishment of sisterhood relationship with KunKook University and Chang Won National University, Korea (2005).
7. Working with COS associate dean, Dr. Kriahnan Rajeshwar, to invite GSNU faculty members to the Research Day in Oct. 2005 and to establish steady pipeline of Korean students (2005)
8. Established an MOU for sisterhood relationship between UTA and Gyeong Sang National University (GSNU) to open up a pipeline for graduate students, Nov. (2004)
9. Recruited a GSNU student, Miss Hyeonjin Kim, to UTA Ph.D. program, Sept. (2003)
10. Public lectures at three Korean universities for recruitment, "Studying Abroad at UTA," May (2005)
11. Designed and produced a new graduate program poster, May (2002)
12. High Performance Computing Across Texas, HiPCAT, related activities: I brought in HiPCAT membership to UTA in May. 2003 as an effort to strategically position UTA in the state of Texas computing grid community and to attract an ATLAS Tier 2 computing center at UTA.
13. Oct. 2004 – Aug. 2007: Associate Director of HiPCAT
14. July 2004 – Mar. 2013: Executive Committee, Texas High Energy Grid, THEGrid
15. May 2003 – Mar. 2013: UTA Representative to HiPCAT

Participation to UTA internal activities:

1. Serving as a university faculty mentor since 2008
2. Presented several papers to 2002 – present UTA ACES programs annually
3. Served as a judge for many of the 2002 – 2015 UTA ACES programs
4. Participated in 2005 - 2010 Research Days
5. Participated in 2003 – 2010 UTA Technology Fair (COS was awarded for the most academic booth in 2004)
6. Participated in 2004 – 2009 UTA Engineering Week
7. Served as a judge for 2003 – 2005 UTA Honor's college HURCA event
8. Participated in Distributed and Parallel Computing Cluster Inauguration (2004)

Invited and fully funded exchange researchers from various Korean Institutes:

1. Dr. ChangHie Hahn, from ChangWon National University, Korea, in Feb. 2004 – Jan. 2006
2. Dr. W. Kim, from ChangWon National University, Korea, in July 2006 – June 2007
3. Dr. K.P.Hong from Korean Atomic Energy Research Institute (KAERI) Mar. 007 – Feb. 2008
4. Dr. S.N.Kim from Korean National University of Education, July 2008 – June 2009
5. Dr. K. Park from Korean Atomic Energy Research Institute (KAERI) Aug. 2009 – July 2010
6. Dr. ChangHie Hahn, from ChangWon National University, Korea, in Mar. 2011 – Jan. 2014
7. Dr. H. Ko from Ewha Woman's University, Seoul, Korea, Dec. 2018 – present

Student group advisory activities at UTA:

1. Sept. 2012 – Aug. 2014: Co-advisor to the UTA Korean Student Association
2. Sept. 2007 – Aug. 2008: Advisor to the UTA Korean Student Association
3. Sept. 2005 – Aug. 2007: Advisor to the Society of Physics Students (SPS)

Other outreach activities at UTA:

1. Sept. 2009 – Dec. 2018: Congressman Joe Barton's Tarrant County citizen's advisory committee member
2. July 1, 2016 – June 30, 2017: 45th President, Korean – American Scientists and Engineers Association (KSEA)
3. July 1, 2015 – June 30, 2016: Korean – American Scientists and Engineers Association (KSEA) President Elect
4. July 1, 2013 – June 30, 2014: Korean – American Scientists and Engineers Association (KSEA) Executive Director
5. May 1, 2013 – Apr. 30, 2015: 30th President, Association of Korean Physicists in America (AKPA)
6. May 1, 2011 – Apr. 30, 2013: Association of Korean Physicists in America (AKPA) president elect and vice president (To be the president on May 1, 2013)
7. Sept. 1, 2009 – Apr. 30, 2011: Publication Director of AKPA
8. July 1, 2011 – June 30, 2012: Korean – American Scientists and Engineers Association (KSEA) Publication director
9. Offered several public lectures and the large cloud chamber demonstrations at events in DFW area universities, TSAPS meetings and many UTA events
10. Hosted a Young Generation Leadership Forum for the Korean American Scientists and Engineers Association North Texas Chapter in May 2007
11. Organized and hosted a large DFW area Korean Public Lecture with Dr. Young Kee Kim (FNAL associate director) in Dec. 2006
12. Gave an invited talk at the Mid Cities Technical Club Speakers Program in the Engineering School of UTA (2008)
13. Participated in "Summer Cosmic Air Shower Display" during the ILC and ALCPG Snowmass Workshop, Aspen, Aug. (2005)
14. Gave several lectures to CSE department grid computing classes in spring, 2003 - 2009
15. Gave an invited talk "Prospect of Texas High Energy Physics Network Needs," LEARN Strategy Meeting, Univ. Of Texas at El Paso, Dec. (2004)

16. Gave an invited talk “High Energy Physics and Computing Grid” to UTA TexPrep middle school students in July 2004
17. Gave a talk at the UTA Quarknet high school Teachers’ Institute, “Do Neutrinos Have Mass?,” June (2002)

Reference and support letters at UTA

1. Wrote reference and support letters for over 100 students for their graduate school application, postdoctoral fellows for their job applications and faculty members promotion
2. Wrote over 20 letters of support for grant applications

List of Publications at UTA

(It is the practice of High Energy Physics field that the author list of publications is in alphabetical order)

1. F. Capozzi *et al*, “Extending the reach of leptophilic boson searches at DUNE and MiniBooNE with bremsstrahlung and resonant production,” *Phys.Rev.D* 104 (2021) 11, 115010
2. A. Abed Abud *et al*, DUNE Collaboration, “Design, construction and operation of the ProtoDUNE-SP Liquid Argon TPC,” *JINST* 17 (2022) 01, P01005
3. A. Abed Abud *et al*, DUNE Collaboration, “Searching for solar KDAR with DUNE,” *JCAP* 10 (2021) 065
4. V. Brdar *et al*, “Axionlike Particles at Future Neutrino Experiments: Closing the Cosmological Triangle,” *Phys. Rev. Lett.* **126**, 201801 (2021)
5. B. Aimard *et al*, WA105 Collaboration, “Performance study of a 3×1×1 m³ dual phase liquid Argon Time Projection Chamber exposed to cosmic rays,” *JINST* 16 (2021) 08, P0806
6. B. Aimard *et al*, WA105 Collaboration, “Study of scintillation light collection, production and propagation in a 4 tonne dual-phase LArTPC,” *JINST* 16 (2021) 03, P03007
7. A. Abed Abud *et al.*, DUNE Collaboration, “Prospects for Beyond the Standard Model Physics Searches at the Deep Underground Neutrino Experiment (DUNE),” *Eur. Phys. J. C* **81**, 322 (2021).
8. A. Abed Abud *et al.*, DUNE Collaboration, “Supernova Neutrino Burst Detection with the Deep Underground Experiment,” arXiv:2008.00647, Accepted for publication in *Eur. Phys. J. C* (2021).
9. A. Abed Abud *et al*, DUNE Collaboration, “First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform,” *JINST* 15 (2020) 12, P12004
10. B. Abi *et al*, DUNE Collaboration, “Long-baseline neutrino oscillation physics potential of the DUNE experiment,” *Eur.Phys.J.C* **80** (2020) 10, 978
11. B. Abi *et al.*, DUNE Collaboration, “First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform,” *JINST* **15**, No.12, P12004 (2020).
12. B. Abi *et al.*, DUNE Collaboration, “Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume I Introduction to DUNE,” *Journal of Instrumentation* **15**, No. 08, T08008 (2020).
13. B. Abi *et al.*, DUNE Collaboration, “Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report Volume II DUNE Physics,” arXiv:2002.03005 [hep-ex]
14. B. Abi *et al.*, DUNE Collaboration, “Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume III DUNE Far Detector Technical Coordination,” *Journal of Instrumentation* **15**, No. 08, T08009 (2020).
15. B. Abi *et al.*, DUNE Collaboration, “Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume IV Far Detector Single-phase Technology,” *Journal of Instrumentation* **15**, No. 08, T08010 (2020).
16. Roberto Acciarri *et al.*, LArIAT Collaboration, “The Liquid Argon In A Testbeam (LArIAT) Experiment,” *Journal of Instrumentation* **15**, No. 04, P04026 (2020).
17. B. Abi *et al.*, DUNE Collaboration, “Neutrino interaction classification with a convolutional neural network in the DUNE far detector,” *Phys. Rev. D* **102**, No. 9, 092003 (2020).

18. W. Foreman *et al.*, DUNE Collaboration, “Long-baseline neutrino oscillation physics potential of the DUNE experiment,” *Eur. Phys. J. C* 80, No.10, 978 (2020).
19. Roberto Acciarri *et al.*, LArIAT Collaboration, “Calorimetry for low-energy electrons using charge and light in liquid argon,” *Phys. Rev. D* 101 no.1, 012010 (2020).
20. C.A. Argüelles *et al.*, “New Opportunities at the Next-Generation Neutrino Experiments (Part 1: BSM Neutrino Physics and Dark Matter).” *Report on Progress in Physics* 83, 124201 (2020).
21. J. Yu for DUNE Collaboration, “Status and Plan of DUNE at Fermilab,” *PoS NuFact2019*, 022 (2020).
22. J. Yu for ICARUS Collaboration, “Status and Plan of ICARUS at Fermilab,” *PoS NuFact2019*, 112 (2020).
23. A. Chatterjee *et al.*, *Phys. Rev. D* 98, 075027 (2018)
24. D. Adams *et al.*, DUNE Collaboration, *JINST* 13, 6 (2018)
25. B. Aimard *et al.*, WA105 Collaboration, *JINST* 13, 11 (2018)
26. A. Chatterjee, F. Camya, C. Moura and J. Yu, arXiv:1089.091313/hep-ex (2018)
27. A. Avi *et al.*, DUNE Collaboration, DUNE Far Detector Interim Design Report Volume 1: Physics, Technology and Strategies, arXiv:1087.10334/hep-ex (2018)
28. A. Avi *et al.*, DUNE Collaboration, DUNE Far Detector Interim Design Report Volume 2: Single-Phase Module, arXiv:1087.10327/hep-ex (2018)
29. A. Avi *et al.*, DUNE Collaboration, DUNE Far Detector Interim Design Report Volume 3: Dual-Phase Module, arXiv:1087.10340/hep-ex (2018)
30. A.A.Aguilar-Arevalo *et al.*, MiniBooNE Collaboration, *Phys. Rev. D* 98, 112004 (2018)
31. A.A.Aguilar-Arevalo *et al.*, MiniBooNE Collaboration, *Phys. Rev. Lett.* 118, 22183 (2017)
10. M. Aaboud *et al.*, ATLAS Collaboration, *JINST* 13, no. 12, P12006 (2018)
11. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Lett. B* 789, 167 (2019)
12. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Lett. B* 786, 59 (2018)
13. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Lett. B* 788, 96 (2019)
14. M. Aaboud *et al.*, ATLAS Collaboration, *JHEP* 1811, 085 (2018)
15. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. Lett.* 121, no. 21, 211801 (2018)
16. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 5, 052008 (2018)
17. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 9, 092005 (2018)
18. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Lett. B* 786, 223 (2018)
19. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. Lett.* 121, no. 19, 191801 (2018)
20. M. Aaboud *et al.*, ATLAS Collaboration, *JHEP* 1812, 039 (2018)
21. M. Aaboud *et al.*, ATLAS Collaboration, *JHEP* 1810, 180 (2018)
22. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Lett. B* 788, 347 (2019)
23. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 5, 052003 (2018)
24. M. Aaboud *et al.*, ATLAS Collaboration, *JHEP* 1809, 139 (2018)
25. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 9, 092008 (2018)
26. A.A.Aguilar-Arevalo *et al.*, MiniBooNE DM Collaboration, *Phys. Rev. D* 98, no. 11, 112004 (2018)
27. M. Aaboud *et al.*, ATLAS Collaboration, *JHEP* 1811, 040 (2018)
28. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Lett. B* 786, 134 (2018)
29. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 11, 112010 (2018)
30. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. Lett.* 121, no. 21, 212301 (2018)
31. M. Aaboud *et al.*, ATLAS Collaboration, *JHEP* 1810, 031 (2018)
32. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. Lett.* 121, no. 15, 152002 (2018)
33. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 9, 092002 (2018)
34. B. Aimard *et al.*, WA104 Collaboration, *JINST* 13, no. 11, P11003 (2018)
35. M. Aaboud *et al.*, ATLAS Collaboration, *Phys. Rev. D* 98, no. 9, 092012 (2018)

36. M. Aaboud et al., ATLAS Collaboration, JHEP 1808, 048 (2018)
37. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B787, 68 (2018)
38. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B784, 173 (2018)
39. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B784, 345 (2018)
40. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B786, 114 (2018)
41. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, 032016 (2018)
42. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. C 98, no. 2, 024908 (2018)
43. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. C 98, no. 4, 044905 (2018)
44. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, no. 9, 092004 (2018)
45. M. Aaboud et al., ATLAS Collaboration, JHEP 1810, 047 (2018)
46. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, no. 3, 032002 (2018)
47. M. Aaboud et al., ATLAS Collaboration, JHEP 1809, 050 (2018)
48. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, no. 3, 032015 (2018)
49. M. Aaboud et al., ATLAS Collaboration, JHEP 1808, 089 (2018)
50. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, 092010 (2018)
51. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B785, 136 (2018)
52. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, no. 3, 032009 (2018)
53. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. Lett. 121, no. 8, 081801 (2018)
54. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B783, 392 (2018)
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57. M. Aaboud et al., ATLAS Collaboration, JHEP 1807, 176 (2018)
58. M. Aaboud et al., ATLAS Collaboration, JHEP 1807, 089 (2018)
59. A. Chatterjee, A.De Roeck, D.Kim, Z.G.Moghaddam, J.C.Park, S.Shin, L.H. Whitehead and J.Yu, Phys. Rev. D98, no. 7, 075027 (2018)
60. M. Aaboud et al., ATLAS Collaboration, JHEP 1810, 159 (2018)
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62. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, 052005 (2018)
63. M. Aaboud et al., ATLAS Collaboration, JHEP 1806, 166 (2018)
64. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 9, 092006 (2018)
65. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. Lett. 120, no. 20, 202007 (2018)
66. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B788, 316 (2019)
67. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B781, 327 (2018)
68. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. Lett. 120, no. 16, 161802 (2018)
69. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D98, no. 1, 012003 (2018)
70. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B780, 578 (2018)
71. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 7, 072016 (2018)
72. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 7, 072003 (2018)
73. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 5, 052010 (2018)
74. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B781, 55 (2018)
75. M. Aaboud et al., ATLAS Collaboration, JHEP 1803, 174 (2018)
76. M. Aaboud et al., ATLAS Collaboration, JHEP 1807, 127 (2018)
77. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 11, 112001 (2018)
78. M. Aaboud et al., ATLAS Collaboration, JHEP 1803, 095 (2018)
79. M. Aaboud et al., ATLAS Collaboration, JHEP 1806, 022 (2018)
80. M. Aaboud et al., ATLAS Collaboration, JHEP 1806, 108 (2018)
81. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. Lett. 121, no. 9, 092001 (2018)
82. M. Aaboud et al., ATLAS Collaboration, JHEP 1801, 126 (2018)
83. M. Aaboud et al., ATLAS Collaboration, JHEP 1805, 077 (2018)
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87. M. Aaboud et al., ATLAS Collaboration, JHEP 1803, 042 (2018)
88. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 3, 032003 (2018)
89. M. Aaboud et al., ATLAS Collaboration, JHEP 1712, 059 (2017)
90. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 5, 052012 (2018)
91. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B780, 557 (2018)
92. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B775, 206 (2017)
93. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D97, no. 3, 032005 (2018)
94. M. Aaboud et al., ATLAS Collaboration, Phys. Rev. D96, no. 9, 092008 (2017)
95. M. Aaboud et al., ATLAS Collaboration, JHEP 1801, 055 (2018)
96. M. Aaboud et al., ATLAS Collaboration, Phys. Lett. B779, 24 (2018)
97. M. Aaboud et al., ATLAS and CMS Collaborations, JHEP 1804, 033 (2018)
98. M. Aaboud et al., ATLAS Collaboration, JHEP 1712, 085 (2017)
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8. J. Yu *et al*., “Roadmap for ILC R&D Test Beam,” KEK Report 2007-3; Fermilab-TM-2392-AD-DO-E (2007)
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Media Coverages of Yu's Research Activities

1. The 2012 Higgs Discovery Related Coverage
 - The 2012 Local CBS TV News and ABC TV News live interviews, as well as the public lecture at UTA on my contribution to the discovery of the Higgs Particle, dubbed as the God Particle
 - CBS11 DFW: <http://www.uta.edu/physics/events/2012/CBS07042012.html>
 - ABC WFAA8 DFW: <http://www.uta.edu/physics/events/2012/WFAA07042012.html>
 - UTA Higgs Public Lecture: <http://www.uta.edu/physics/events/2012/higgsLecture072012.html>
 - The 2012 Public Lecture by professor S. Weinberg, one of the Nobel Laureates who invented the Standard Model of Particle Physics, at the International Linear Collider Workshop Yu hosted
2. The Star-Telegram coverage related to the 2016 hosting of the first off-Fermilab campus collaboration meeting of the Deep Underground Neutrino Experiment (DUNE)
 - 2/2016: <https://www.star-telegram.com/news/local/community/arlington/article60091186.html>
 - 7/2017: <https://www.star-telegram.com/news/local/community/arlington/article163058613.html>
 - 7/2017 South Dakota TV Station Interview: <http://www.newscenter1.tv/story/35947742/construction-begins-locally-for-the-largest-physics-experiment-in-history>
3. The 2018 media coverages of the completion of the UTA portion of the DUNE prototype detector being constructed at CERN
 - The DUNE collaboration home page: <http://news.fnal.gov/2018/06/dune-collaboration-grows-to-32-countries-prepares-for-operations-of-prototype-detectors/>
 - Fermi National Accelerator Laboratory's symmetry magazine coverage of my latest project, the Dual Phase Deep Underground Detector Prototype: <https://www.symmetrymagazine.org/article/a-dual-phase-dune>
 - The AAAS EurekaAlert coverage: https://www.eurekaalert.org/pub_releases/2018-06/uota-urc061518.php
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Jaehoon Yu

- Fermi National Accelerator Laboratory's official poster for the Deep Underground Neutrino Experiment below features myself on an elevated platform inside the detector I built a crucial device called the Field Cage. In the lab's 52 year history, only a handful of persons are featured in their posters so this is a clear piece of evidence of recognition of Yu's scholarly achievements and leadership.

