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Education

Cornell University, Ithaca, NY
Ph.D. Physics, July 1991

Stanford University, Stanford, CA
B.S. Physics with Honors, June 1986

Employment

University of Arizona (1996-present)

Associate Dean, College of Science (2017-present)
Interim Dean, Honors College (2016-present)
Distinguished Professor of Physics (2016-present)
Associate Dean, College of Science (2009-2016)
Interim Associate Dean, College of Science (2008-2009)
Professor (2008-present)
Director of Undergraduate Studies, Dept. of Physics (2006-2008)
Associate Professor (2002-2008)
Assistant Professor (1996-2002)

University of Chicago (1991-1996)

Research Scientist (1994-1996)
McCormick Fellow (1991-1994)

Cornell University (1986-1991)

Research Assistant (1987-1991)

Honors

Metropolitan Pima Alliance Common Grounds Semi-finalist, 2017
Tucson Festival of Books Award of Contribution, 2017
UA Team Award for Excellence, 2017
University Distinguished Professor, 2016
Galileo Circle Dean's Award, 2013
AAFSAA Outstanding Faculty Award, 2010
Arizona Leadership Institute Fellow, 2010
Leon Blitzer Excellence in the Teaching of Physics Award, 2010
College of Science Distinguished Advising Award, 2008
College of Science Innovation in Teaching Award, 2000
Arthur Holly Compton Lecturer, 1993
Robert R. McCormick Postdoctoral Fellowship, 1991-1994.

Service Activities

Local Outreach

Academic Village Public Lecture, Mar. 2017
 Arizona Science Radio Show, Feb. 2017
 College of Science Public Lecture, Feb. 2017
 Arizona Science Radio Show, Apr. 2016
 Biosphere 2 What If Lecture, Jan. 2016
 The Graduate Club Public Lecture, Jan. 2016
 Splendido Public Lecture, Apr. 2015
 Particle Fever Movie Panel, April 2014
 Bill Buckmaster Radio Show, Mar. 2014
 Nanotechnology Public Lecture, Feb. 2014
 Science Cafe, Prescott, Apr. 2012
 Downtown Science Public Lecture, Dec. 2011
 Science Cafe, Sep. 2010
 KUAT Wavelengths Television segment, Mar. 2010
 Let's Talk Science Lecture, Mar. 2009
 College of Science Public Lecture, Feb. 2009
 LHC public presentation, Sept. 2008 Physics Phun Night Presenter and MC, 2003, 2001

Local Activities

Amphitheater School District STEM Core Committee, 2014-2015
 Salpointe High School Board of Directors Academic Committee, 2013-present
 Arizona STEM Diploma Advisory member, 2013-2014
 AZ SciTech Festival, Steering Committee, 2013-present
 Tucson Festival of Books Steering Committee, 2012-2016
 Champions for Change Advisory Board, 2011-2013
 Tucson Values Teachers Teacher Appreciation Planning Committee, 2010-2014

University Committees

UA Presents Student Engagement committee, 2017-present
 UA Deans Council, 2016-present
 Program Coordinator for Curricular Affairs search committee, 2016
 Assistant Director for Curricular Affairs search committee, 2016-2017
 WEES UA Advisory Committee, 2015-present
 ORD Cores Advisory Committee, 2015-2016
 CESL International Advisory Board, 2015-present
 Associate Deans for Research Council, 2015-2016
 Enrollment Management Council, 2014-present
 UA Vitae Faculty Advisory Committee, 2013-2015
 100% Engagement Task Force, 2014
 Director of Community Relations Search committee, 2014
 College of SBS Associate Dean Search committee, 2014
 RCM Steering Committee, 2013-2015
 AAU STEM Advisory Committee, 2013-2015
 UA STEM Learning Center Advisory Board, chair, 2013-present
 College of Science Senior Development Officer Search Committee, 2013
 Arizona Leadership Institute Advisory committee, 2012-present
 Teacher Course Evaluation Advisory Group, 2012-2014

College of Medicine Prerequisite committee, 2012-2013
 Strategic Priorities Faculty Initiative committee, 2011-2014
 Transfer Task Force, 2011-2014
 SBS Associate Dean Search committee, 2011
 Assistant Director of Employer Development Search committee, 2011
 P-20 Education Council of Southern Arizona, 2008-2013
 TRIF Workforce Development Subgroup, 2008-2014
 Integrated Science Advisory Board, 2008-2013
 Assessment Coordinating Council, 2008-2015
 Mosaic Student Systems Advisory Group, 2009-2011
 Business Analytics Advisory Group, 2009-2011
 Honors College Advisory Board, 2008-2009
 University Budget Redesign Task Force, 2008-2009
 Student Affairs Policy committee, 2006-2008
 University of Arizona Graduate Representative, 1996-2003
 President, Asian American Faculty Staff and Alumni Association, 1999

Departmental Committees

Physics Department Outreach committee, 2010-present
 Physics Department Undergraduate Curriculum committee, chair, 2006-2010, 2011
 Physics Department Undergraduate Curriculum committee, 2006-present
 Physics Department Graduate Curriculum committee, 2012-2013
 Physics Department Service Course committee, chair, 2006-2008
 Physics Department Executive committee, 2004-2008
 Physics Department Undergraduate Recruitment & Scholarships, 2003-2014
 Physics Department Undergraduate Recruitment & Scholarships, chair, 2010
 Physics Department Graduate Examinations, chair 2004-2006
 Physics Department Undergraduate Recruitment & Scholarships, 2003-2007
 Physics Department CAPE committee, 2002-2003.
 Physics Department Laboratory Equipment committee, 2002-2006.
 Physics Department Strategic Plan Committee, 2000-2001.
 Physics Department Library Committee, chair, 2000-2001.
 Physics Department Strategic Plan Committee, 2000-2001.
 Physics Department Library Committee, 1999-2004.
 Physics Department Academic Program Review, 1999-2000
 Physics Department Teaching Improvement and Evaluation Committee, 1997-2004.
 Physics Department Colloquium Committee, 1997-1998

Professional Activities

NSF Quarknet Review Panel, 2001, 2004
 Reviewer DOE Proposals, 1999-present
 Editor, Proceedings of the Seventh International Conference on Calorimetry in High Energy Physics, 1997
 Local organizing committee for the Seventh International Conference on Calorimetry in High Energy Physics, Tucson, Arizona, 1996-1997
 Member, American Physical Society, 1986-present

Publications in Print

1. “Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s} = 8$ TeV using the ATLAS detector”

- M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **765**, 132 (2017)
2. **“Search for dark matter in association with a Higgs boson decaying to b -quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **765**, 11 (2017)
 3. **“A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions”**
M. Aaboud *et al.* [ATLAS Collaboration].
JINST **11**, no. 11, P11020 (2016)
 4. **“Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 12, 653 (2016)
 5. **“Measurement of W^+W^- production in association with one jet in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **763**, 114 (2016)
 6. **“Search for dark matter produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **763**, 251 (2016)
 7. **“Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1611**, 110 (2016)
 8. **“Search for Minimal Supersymmetric Standard Model Higgs bosons H/A and for a Z' boson in the $\tau\tau$ final state produced in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 11, 585 (2016)
 9. **“Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1609**, 175 (2016)
 10. **“Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 12, 670 (2016)
 11. **“Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 10, 541 (2016)
 12. **“Measurement of top quark pair differential cross-sections in the dilepton channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 9, 092003 (2016)

13. **“Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **761**, 158 (2016)
14. **“Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **764**, 11 (2017)
15. **“Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in protonproton collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 12, 683 (2016)
16. **“Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\ell^+ \ell^- b \bar{b}$, $\ell \nu b \bar{b}$, and $\nu \bar{\nu} b \bar{b}$ channels with pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **765**, 32 (2017)
17. **“Measurement of exclusive $\gamma\gamma \rightarrow W^+W^-$ production and search for exclusive Higgs boson production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 3, 032011 (2016)
18. **“Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **761**, 372 (2016)
19. **“Search for Higgs and Z Boson Decays to $\phi\gamma$ with the ATLAS Detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. Lett. **117**, no. 11, 111802 (2016)
20. **“Measurement of jet activity in top quark events using the $e\mu$ final state with two b -tagged jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1609**, 074 (2016)
21. **“Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the LHC using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 9, 517 (2016)
22. **“Search for bottom squark pair production in protonproton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 10, 547 (2016)
23. **“Search for the Higgs boson produced in association with a W boson and decaying to four b -quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 11, 605 (2016)
24. **“The performance of the jet trigger for the ATLAS detector during 2011 data taking”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 10, 526 (2016)

25. **“Search for heavy long-lived charged R -hadrons with the ATLAS detector in 3.2 fb^{-1} of proton–proton collision data at $\sqrt{s} = 13 \text{ TeV}$ ”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **760**, 647 (2016)
26. **“Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1609**, 173 (2016)
27. **“Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton–proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 5, 052002 (2016)
28. **“Measurement of the $W^\pm Z$ boson pair-production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS Detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **762**, 1 (2016)
29. **“Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **762**, 334 (2016)
30. **“Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 5, 052009 (2016)
31. **“Search for resonances in diphoton events at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1609**, 001 (2016)
32. **“Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **761**, 136 (2016)
33. **“Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13\text{TeV}$ with the ATLAS Detector at the LHC”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. Lett. **117**, no. 18, 182002 (2016)
34. **“Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV ”**
G. Aad *et al.* [ATLAS and CMS Collaborations].
JHEP **1608**, 045 (2016)
35. **“Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 13 \text{ TeV}$ ”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **760**, 520 (2016)
36. **“Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1611**, 112 (2016)

37. **“Measurement of the top quark mass in the $t\bar{t} \rightarrow$ dilepton channel from $\sqrt{s} = 8$ TeV ATLAS data”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **761**, 350 (2016)
38. **“Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 12, 666 (2016)
39. **“Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1608**, 009 (2016)
40. **“Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 9, 502 (2016)
41. **“Measurement of the angular coefficients in Z -boson events using electron and muon pairs from data taken at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1608**, 159 (2016)
42. **“Search for pair production of gluinos decaying via stop and sbottom in events with b -jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 3, 032003 (2016)
43. **“Measurement of the relative width difference of the B^0 - \bar{B}^0 system with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1606**, 081 (2016)
44. **“Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $\sqrt{s_{NN}} = 5.02$ TeV $p + \text{Pb}$ collisions measured by the ATLAS experiment”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **763**, 313 (2016)
45. **“Search for scalar leptoquarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment”**
M. Aaboud *et al.* [ATLAS Collaboration].
New J. Phys. **18**, no. 9, 093016 (2016)
46. **“Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 10, 565 (2016)
47. **“Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 7, 392 (2016)
48. **“Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**

- G. Aad *et al.* [ATLAS Collaboration].
JHEP **1608**, 005 (2016)
49. **“Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{TeV}$ using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 3, 032005 (2016)
50. **“Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8\text{ TeV}$ with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Rev. D **94**, no. 3, 032006 (2016)
51. **“Measurements of $Z\gamma$ and $Z\gamma\gamma$ production in pp collisions at $\sqrt{s} = 8\text{ TeV}$ with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Rev. D **93**, no. 11, 112002 (2016)
52. **“Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s} = 13\text{ TeV}$ using the ATLAS experiment”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Rev. D **93**, no. 11, 112015 (2016)
53. **“Study of the rare decays of B_s^0 and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 9, 513 (2016)
54. **“Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} = 8\text{ TeV}$ with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1605**, 160 (2016)
55. **“Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $W\bar{W}$ with the ATLAS detector at $\sqrt{s} = 8\text{ TeV}$ ”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1608**, 104 (2016)
56. **“Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
JHEP **1606**, 059 (2016)
57. **“Measurement of W^\pm and Z -boson production cross sections in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **759**, 601 (2016)
58. **“Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow \tau\nu$ using pp collision data recorded at $\sqrt{s} = 13\text{ TeV}$ by the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **759**, 555 (2016)
59. **“Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period”**
G. Aad *et al.* [ATLAS Collaboration].
JINST **11**, no. 05, P05013 (2016)

60. **“Search for resonances in the mass distribution of jet pairs with one or two jets identified as b -jets in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
Phys. Lett. B **759**, 229 (2016)
61. **“Muon reconstruction performance of the ATLAS detector in protonproton collision data at $\sqrt{s} = 13$ TeV”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 5, 292 (2016)
62. **“Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1606**, 093 (2016)
63. **“Charged-particle distributions in pp interactions at $\sqrt{s} = 8$ TeV measured with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 7, 403 (2016)
64. **“Measurements of $W^\pm Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Rev. D **93**, no. 9, 092004 (2016)
65. **“Measurement of total and differential W^+W^- production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1609**, 029 (2016)
66. **“Search for supersymmetry at $\sqrt{s} = 13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 5, 259 (2016)
67. **“Measurement of event-shape observables in $Z \rightarrow \ell^+ \ell^-$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 7, 375 (2016)
68. **“Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s} = 13$ TeV proton-proton collisions”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **757**, 334 (2016)
69. **“Search for single production of a vector-like quark via a heavy gluon in the $4b$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **758**, 249 (2016)
70. **“Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 8, 442 (2016)
71. **“Test of CP Invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector”**

- G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 12, 658 (2016)
72. **“Charged-particle distributions in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **758**, 67 (2016)
73. **“Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 6, 322 (2016)
74. **“A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $\sqrt{s} = 8$ TeV proton-proton collisions”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1606**, 067 (2016)
75. **“A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
New J. Phys. **18**, no. 7, 073021 (2016)
76. **“Probing lepton flavour violation via neutrinoless $\tau \rightarrow 3\mu$ decays with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 5, 232 (2016)
77. **“Measurement of the CP-violating phase ϕ_s and the B_s^0 meson decay width difference with $B_s^0 \rightarrow J/\psi\phi$ decays in ATLAS”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1608**, 147 (2016)
78. **“Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s} = 8$ TeV pp collision data collected by the ATLAS experiment”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **756**, 52 (2016)
79. **“Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 5, 295 (2016)
80. **“Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1603**, 041 (2016)
81. **“Measurement of the ZZ Production Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Rev. Lett. **116**, no. 10, 101801 (2016)
82. **“Combination of searches for WW , WZ , and ZZ resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **755**, 285 (2016)

83. **“Search for charged Higgs bosons in the $H^\pm \rightarrow tb$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1603**, 127 (2016)
84. **“Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 5, 283 (2016)
85. **“Measurement of $D^{*\pm}$, D^\pm and D_s^\pm meson production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Nucl. Phys. B **907**, 717 (2016)
86. **“Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC”**
G. Aad *et al.* [ATLAS Collaboration].
JHEP **1603**, 026 (2016)
87. **“Measurement of the transverse momentum and ϕ_η^* distributions of DrellYan lepton pairs in protonproton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Eur. Phys. J. C **76**, no. 5, 291 (2016)
88. **“Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
Phys. Lett. B **754**, 302 (2016)
89. **“Performance of b -Jet Identification in the ATLAS Experiment”**
G. Aad *et al.* [ATLAS Collaboration].
JINST **11**, no. 04, P04008 (2016)
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Grants and Contracts

A percent effort of 20% indicates the grant is evenly shared by five researchers.

Experimental Elementary Particle Physics
 April 2016-March 2019
 \$2,445,000 (Department of Energy)
 25% effort

Cosmic Frontier Physics
 April 2016-March 2019
 \$50,000
 100% effort

Pilot Bridge Program in the Sciences
 April 2015-March 2017
 \$300,000 (Sherman Fairchild Foundation)
 100% effort

Cosmic Frontier Physics
 April 2014-March 2016
 \$100,000
 100% effort

Experimental Elementary Particle Physics
 May 2013-March 2016
 \$2,410,000 (Department of Energy)
 20% effort

Experimental Elementary Particle Physics
 February 2010-January 2013
 \$3,122,000 (Department of Energy)
 20% effort

Large Synoptic Survey Telescope Power Supply Prototype
 August 2009-August 2012
 \$17,500 (SLAC National Accelerator Laboratory)

Faculty Seed Grant
October 2008
\$600 travel grant

Experimental Elementary Particle Physics
February 2007-January 2010
\$2,635,000 (Department of Energy)
20% effort

ATLAS CSC Muon M& O
March 2006-July 2007
\$45,000 (Department of Energy)
40% effort

ATLAS CSC Muon Calibration
March 2005-February 2006
\$21,000 (Department of Energy)
45% effort

Experimental Elementary Particle Physics
February 2004-January 2007
\$2,639,000 (Department of Energy)
20% effort (\$45,000 was allocated for my sabbatical)

Experimental Elementary Particle Physics
February 2001-January 2004
\$2,415,000 (Department of Energy)
23% effort

Travel Grant
November 2000
\$500 (U. Arizona)
100% effort

Experimental Elementary Particle Physics
February 1998-January 2001
\$1,971,000 (Department of Energy)
25% effort

KTeV Trigger Electronics
April 1998-April 1999
\$12,900 (Department of Energy)
100% effort

Small Grant
June 1998-May 1999
\$4,960 (U. Arizona)
100% effort

Travel Grant
March 1999-December 1999
\$5,000 (Department of Energy)

100% effort

Experimental Elementary Particle Physics
February 1997-January 1998
\$507,000 (Department of Energy)
25% effort