

# Curriculum Vitae: Terrance Maynard Figy

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Wichita State University  
1845 Fairmount Street  
Box 32  
Wichita, KS 67260

## EDUCATION

**Ph.D. Physics** June 2000 – August 2006  
**University of Wisconsin-Madison, Madison, WI USA**  
Title: *NLO QCD Corrections to the jet activity in Higgs boson production via vector-boson fusion*  
Thesis Advisor: Prof. Dr. Dieter Zeppenfeld

**B.S. Physics** August 1996 – May 2000  
**University of Wisconsin-Eau Claire, Eau Claire, WI USA**  
Second major: Mathematics  
Graduated Magna Cum Laude

## PROFESSIONAL EXPERIENCE

*Assistant Professor* 8/2015 –  
**Department of Mathematics,** Wichita, KS, USA  
**Statistics & Physics,**  
**Wichita State University**

*Ennovar Research Fellow* 5/2015 – 5/2016  
**Institute of Emerging** Wichita, KS, USA  
**Technologies and Market**  
**Solutions,**  
**Wichita State University**

*Visiting Assistant Professor* 12/2014 – 7/2015  
**Department of Mathematics,** Wichita, KS, USA  
**Statistics & Physics,**  
**Wichita State University**

*NAFUM Research Associate* 10/2011 – 9/2014  
**School of Physics & Astronomy,** Manchester, United Kingdom  
**The University of Manchester**

*Postdoctoral Fellow* 10/2009 – 9/2011  
**Theory Division,** Geneva, Switzerland  
**European Organization for**  
**Nuclear Research**

*Postdoctoral Research Associate* 6/2006 – 9/2009  
**Institute for Particle Physics** Durham, United Kingdom  
**Phenomenology,**  
**University of Durham**

## TEACHING EXPERIENCE

- Instructor for Physics 313: *Physics for Scientists I* during the 2019 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 314: *Physics for Scientists II* during the 2019 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 314: *Physics for Scientists II* during the 2019 Spring Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 701G: *Mathematical Methods in Physics* during the 2019 Spring Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 641: *Thermophysics* during the 2018 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 714: *Theoretical Physics* during the 2018 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 871: *Statistical Mechanics* during the 2018 Spring Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 631: *Electricity and Magnetism* during the 2018 Spring Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 661: *Introduction to Atomic Physics* during the 2017 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 661: *Introduction to Atomic Physics* during the 2017 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 714: *Theoretical Physics* during the 2016 Fall Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 631: *Electricity and Magnetism* during the 2016 Spring Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 313: *Physics for Scientists I* during the 2015 Spring Semester  
Wichita State University, Wichita, KS USA
- Instructor for Physics 314: *Physics for Scientists II* during the 2015 Spring Semester  
Wichita State University, Wichita, KS USA
- Tutor for 2nd year Physics Tutorial Sessions from 2011 to 2014  
The University of Manchester, Manchester, United Kingdom
- Tutor for Level 1 Physics Tutorial Sessions from 2007 to 2009  
University of Durham, Durham, United Kingdom
- Tutor for Level 1 Computing Lab on Fortran from 2006 to 2007  
University of Durham, Durham, United Kingdom
- Teaching Assistant for 100 and 200 level physics courses from 2000 to 2006  
University of Wisconsin-Madison, Madison, WI USA

## SUPERVISION OF STUDENTS

- Department of Mathematics, Statistics, and Physics
  - Supervised Tinghua Chen (Ph.D. Student) from 2018 - present
  - Supervised Tinghua Chen (Masters Student) from 2017 to 2018
- Department of Physics, University of Durham
  - Co-supervised Sophy Palmer (Ph.D. student) from 2006 to 2010 with Dr. Georg Weiglein
  - Co-supervised Ian Boreham (MSci student) from 2006 to 2007 with Dr. Frank Krauss

## PUBLICATIONS AND PREPRINTS

1. T. Chen, T. M. Figy and W. T. Giele, “A Projective Phase Space Generator for Hadronic Vector Boson Plus One Jet Production,” arXiv:1907.03893 [hep-ph]. Submitted to Physical Review D.
2. P. Azzi *et al.*, “Report from Working Group 1 : Standard Model Physics at the HL-LHC and HE-LHC,” CERN Yellow Rep. Monogr. **7**, 1 (2019) doi:10.23731/CYRM-2019-007.1 [arXiv:1902.04070 [hep-ph]].
3. T. M. Figy and W. T. Giele, “A Forward Branching Phase Space Generator for Hadron colliders,” JHEP **1810**, 203 (2018) doi:10.1007/JHEP10(2018)203 [arXiv:1806.09678 [hep-ph]].
4. F. Campanario, T. M. Figy, S. Pltzer, M. Rauch, P. Schichtel and M. Sjdahl, “Stress testing the vector-boson-fusion approximation in multijet final states,” Phys. Rev. D **98**, no. 3, 033003 (2018) doi:10.1103/PhysRevD.98.033003 [arXiv:1802.09955 [hep-ph]].
5. D. de Florian *et al.* [LHC Higgs Cross Section Working Group], “Handbook of LHC Higgs Cross Sections: 4. Deciphering the Nature of the Higgs Sector,” arXiv:1610.07922 [hep-ph]. CERN Yellow Reports: Monographs Volume 2/2017 (CERN-2017-002-M).
6. J. Baglio, J. Bellm, F. Campanario, B. Feigl, J. Frank, T. Figy, M. Kerner and L. D. Ninh *et al.*, “Release Note - VBFNLO 2.7.0,” arXiv:1404.3940 [hep-ph].
7. F. Campanario, T. M. Figy, S. Plätzer and M. Sjdahl, “Electroweak Higgs plus Three Jet Production at NLO QCD,” Phys. Rev. Lett. **111**, 211802 (2013) [arXiv:1308.2932 [hep-ph]].
8. K. Arnold, J. Bellm, G. Bozzi, F. Campanario, C. Englert, B. Feigl, J. Frank and T. Figy *et al.*, “Release Note – Vbfnlo-2.6.0,” arXiv:1207.4975 [hep-ph].
9. T. Figy and R. Zwicky, “The other Higgses, at resonance, in the Lee-Wick extension of the Standard Model,” JHEP **1110** (2011) 145 [arXiv:1108.3765 [hep-ph]].
10. K. Arnold, J. Bellm, G. Bozzi, M. Brieg, F. Campanario, C. Englert, B. Feigl, J. Frank *et al.*, “VBFNLO: A parton level Monte Carlo for processes with electroweak bosons – Manual for Version 2.5.0,” [arXiv:1107.4038 [hep-ph]].
11. T. Figy, S. Palmer and G. Weiglein, “Higgs Production via Weak Boson Fusion in the Standard Model and the MSSM,” JHEP **1202**, 105 (2012) [arXiv:1012.4789 [hep-ph]].

12. K. Arnold, T. Figy, B. Jager and D. Zeppenfeld, “Next-to-leading order QCD corrections to Higgs boson production in association with a photon via weak-boson fusion at the LHC,” JHEP **1008** (2010) 088 [arXiv:1006.4237 [hep-ph]].
13. T. Figy, K. Rolbiecki and Y. Santos, “Tau-Sneutrino NLSP and Multilepton Signatures at the LHC,” Phys. Rev. D **82** (2010) 075016 [arXiv:1005.5136 [hep-ph]].
14. K. Arnold *et al.*, “VBFNLO: A parton level Monte Carlo for processes with electroweak bosons,” Comput. Phys. Commun. **180** (2009) 1661 [arXiv:0811.4559 [hep-ph]].
15. A. Dedes, T. Figy, S. Hoche, F. Krauss and T. E. J. Underwood, “Searching for Nambu-Goldstone Bosons at the LHC,” JHEP **11** (2008) 036 [arXiv:0807.4666 [hep-ph]].
16. T. Figy, “Next-to-leading order QCD corrections to light Higgs Pair production via vector boson fusion,” Mod. Phys. Lett. A **23** (2008) 1961 [arXiv:0806.2200 [hep-ph]].
17. T. Figy, V. Hankele and D. Zeppenfeld, “Dominant next-to-leading order QCD corrections to Higgs plus three jet production in vector-boson fusion,” JHEP **02** (2008) 076 [arXiv:0710.5621].
18. O. Brein and T. M. Figy, “Charged Higgs-boson production in association with an electron and a neutrino at electron-positron colliders,” Phys. Rev. D **77** (2008) 055004 [arXiv:0710.4121 [hep-ph]].
19. V. Hankele, G. Klamke, D. Zeppenfeld and T. Figy, “Anomalous Higgs boson couplings in vector boson fusion at the CERN LHC,” Phys. Rev. D **74**, 095001 (2006) [arXiv:hep-ph/0609075].
20. P. Burikham, T. Figy and T. Han, “TeV-scale string resonances at hadron colliders,” Phys. Rev. D **71**, 016005 (2005) [Erratum-ibid. D **71**, 019905 (2005)] [arXiv:hep-ph/0411094].
21. T. Figy and D. Zeppenfeld, “QCD corrections to jet correlations in weak boson fusion,” Phys. Lett. B **591**, 297 (2004) [arXiv:hep-ph/0403297].
22. T. Figy, C. Oleari and D. Zeppenfeld, “Next-to-leading order jet distributions for Higgs boson production via weak-boson fusion,” Phys. Rev. D **68**, 073005 (2003) [arXiv:hep-ph/0306109].

#### CONFERENCE PROCEEDINGS

1. F. Campanario, T. M. Figy, S. Plätzer and M. Sjödal, “Beyond the t-channel Approximation: Next-to-Leading Order QCD Corrections to Electroweak Higgs Boson Plus Three Jet Production at the LHC,” arXiv:1407.5050 [hep-ph].
2. F. Campanario, T. M. Figy, S. Plätzer and M. Sjödal, “NLO QCD Corrections to Electroweak Higgs Boson Plus Three Jet Production at the LHC,” arXiv:1311.5455 [hep-ph].
3. K. Arnold, T. Figy, B. Jager, D. Zeppenfeld, “Higgs boson production in association with a photon via weak boson fusion,” arXiv:1110.2402 [hep-ph].
4. S. Dawson *et al.*, “Higgs Working Group Summary Report,” arXiv:0803.1154 [hep-ph].

5. T. Figy, C. Oleari and D. Zeppenfeld, “QCD corrections to vector boson fusion processes,” Nucl. Phys. Proc. Suppl. **135**, 9(2004) [arxiv:hep-ph/0407066].
6. G. Azuelos *et al.*, “Search for the standard model Higgs boson using vector boson fusion at the LHC,” *Prepared for Workshop on Physics at TeV Colliders, Les Houches, France, 21 May - 1 Jun 2001*

#### CONFERENCE PRESENTATIONS

1. Particles Physics on the Plains 2019  
Oct. 12-13, 2019  
University of Kansas, Lawrence, KS, USA  
Title: *A Projective Phase Space Generator for Vector Boson Plus Jet Production*
2. Loopfest XVIII: Radiative Corrections for the LHC and Future Colliders  
Aug. 12-14, 2019  
Fermi National Accelerator Laboratory, Batavia, USA  
Title: *Stress testing the vector-boson-fusion approximation in multijet final states*
3. Particles Physics on the Plains 2018  
Oct. 13-14, 2018  
University of Kansas, Lawrence, KS, USA  
Title: *A Forward Branching Phase Space Generator for Hadron Colliders*
4. PASCOS 2018  
June 4-8, 2018  
Case Western Reserve University, Cleveland, Ohio, USA  
Title: *Higgs Boson Production via Vector Boson Fusion Receives a Stress Test*
5. Higgs plus dijets at the LHC  
Jan 10-12, 2018  
Durham, United Kingdom  
Title: *Stress-Testing the VBF Approximation with Higgs Boson plus Three Jet Production*
6. Particles Physics on the Plains 2017  
Sept. 30, 2017  
University of Kansas, Lawrence, KS, USA  
Title: *Stress-Testing the VBF Approximation in Higgs Boson Production*
7. Loopfest XVI: Radiative Corrections for the LHC and Future Colliders  
May 31- June 2, 2017  
Argonne National Laboratory, Argonne, ILL, USA  
Title: *EW Higgs Boson Production in Association with Three Jets at the LHC*
8. American Physical Society April Meeting 2017  
Jan 28-31, 2017  
Washington, DC USA  
Title: *NLO QCD Corrections to Electroweak Higgs Boson Production in Association with Three Jets at the LHC*
9. Pheno 16 Symposium  
May 9-11, 2016  
University of Pittsburg, Pittsburgh, PA USA

- Title: *NLO QCD Corrections to Electroweak Higgs Boson Production in Association of Three Jets at the LHC*
10. SUSY 2014  
 July 21-26, 2014  
 Manchester, United Kingdom  
 Title: *Electroweak Higgs Boson Production in Association with Three Jets (A.K.A. VBF + 1 Jet) at NLO QCD*
  11. LoopFest XIII  
 June 17-20, 2014  
 Brooklyn, New York, USA  
 Title: *Electroweak Higgs Boson Production in Association with Three Jets (A.K.A. VBF + 1 Jet) at NLO QCD*
  12. Loops and Legs in Quantum Field Theory  
 April 27-May 2, 2014  
 Weimar, Germany  
 Title: *Next-to-Leading Order QCD Corrections to Electroweak Higgs Boson Production in Association of Three Jets at the LHC*
  13. RADCOR 2013  
 Sept 22-27, 2013  
 Lumley Castle, Chester le Street, United Kingdom  
 Title: *NLO QCD Corrections to Electroweak Higgs Boson Plus Three Jet Production at the LHC*
  14. Pheno 12 Symposium  
 May 7-9, 2012  
 University of Pittsburg, Pittsburgh, PA USA  
 Title: *The other, Higgses, as resonance, in the Lee–Wick extension of the Standard Model*
  15. Pheno 11 Symposium  
 May 9-11, 2011  
 University of Wisconsin-Madison, Madison, WI USA  
 Title: *Next-to-leading order corrections in Higgs boson production in association of a photon via weak boson fusion*
  16. Workshop on Heavy Particles at the LHC  
 Jan 5-7, 2011  
 ETH, Zurich, Switzerland  
 Title: *Next-to-leading order QCD corrections in Higgs boson production in association of a photon via VBF*
  17. Pheno 10 Symposium  
 May 10-12, 2010  
 University of Wisconsin-Madison, Madison, WI USA  
 Title: *Higgs Boson Pair Production within the Lee–Wick Standard Model*
  18. Collider Physics 2009: Joint Argonne and IIT Theory Institute  
 May 18-22, 2009  
 Title: *The Phenomenology of the  $U(1)$  Phantom Sector of the Standard Model*
  19. Pheno 09 Symposium  
 May 11-13, 2009  
 University of Wisconsin-Madison, Madison, WI USA  
 Title: *Pure leptonic signatures with a sneutrino NLSP at the LHC*

20. LoopFest VII  
Radiative Corrections for the LHC and ILC  
May 14-16, 2008  
University at Buffalo, Buffalo, NY USA  
Title: *Higgs plus three jets via vector boson fusion at NLO QCD*
21. Monte Carlo Tools for Beyond the Standard Model Physics  
3rd Workshop  
March 10-11, 2008  
CERN  
Title: *Littlest Higgs in Sherpa*
22. The HEPTools First Annual Meeting  
November 26-27, 2007  
NCSR Demokritos, Athens, Greece  
Title: *NLO QCD Corrections to Higgs Plus Three Jet Production in Vector-Boson Fusion*
23. LHC-D Workshop 2007: Higgs Physics  
October 8-9, 2007  
Albert-Ludwigs-Universität Freiburg, Freiburg, Germany  
Title: *NLO QCD Corrections for VBF Higgs Production and the Central Jet Veto*
24. 1st Annual ARTEMIS Meeting  
September 27-28, 2007  
Chalkidiki, Greece  
Title: *VBF Higgs Production at NLO QCD*
25. Brookhaven Forum 2007: New Horizons at Colliders  
May 30 - June 1, 2007  
Brookhaven National Laboratory (BNL), Brookhaven, New York, USA  
Title: *NLO QCD Corrections for Higgs Production via VBF in Association of Three Jets at the LHC*
26. Pheno 04 Symposium  
April 26-28, 2004  
University of Wisconsin-Madison, Madison, WI USA  
Title: *QCD Corrections to Jet Correlations in Weak Boson Fusion*
27. LoopFest III  
April 1-3, 2004  
Kavli Institute for Theoretical Physics  
University of California-Santa Barbara, Santa Barbara, CA USA  
Title: *NLO QCD Corrections for Higgs Production via Weak Boson Fusion*

#### SEMINAR PRESENTATIONS

1. Fermilab Theory Seminars  
Fermi National Accelerator Laboratory, Batavia, IL USA  
Title: *Generating QCD Corrected Multi-Jet Events at Hadron Colliders using Innovative Phase Space Sampling Methods*  
October 2019
2. Colloquium  
Universidad de Colima, Colima, MX  
Title: *Scrutinizing Higgs Boson Scattering Cross Section Predictions with Precision*  
November 2018

3. Michigan State University High Energy Physics Seminar  
Michigan State University, Lansing, Michigan, USA  
Title:*Stress-testing the VBF Approximation with Higgs Boson Plus Three Jet Production*  
September 2017
4. Southampton High Energy Physics Seminars  
University of Southampton, Southampton, United Kingdom  
Title:*Next-to-Leading Order QCD Corrections to Electroweak Higgs Boson Production in Association with Three Jets at the LHC*  
May 2014
5. Liverpool High Energy Theory Group Seminar  
University of Liverpool, Liverpool, United Kingdom  
Title:*Electroweak Higgs Boson Production in Association of Three Jets (A.K.A VBF + 1 Jet) at NLO QCD*  
March 2014
6. Fermilab Theory Seminars  
Fermi National Accelerator Laboratory, Batavia, IL USA  
Title:*Electroweak Higgs Boson Production in Association with Three Jets (A.K.A. VBF + 1 Jet) at NLO QCD*  
December 2013
7. Theory Seminars  
University of Wisconsin-Madison, Madison, WI USA  
Title:*Electroweak Higgs Boson Production in Association with Three Jets (A.K.A. VBF + 1 Jet) at NLO QCD*  
December 2013
8. Birmingham Particle Physics Seminars  
University of Birmingham, Birmingham, United Kingdom  
Title:*The other Higgses, at resonance, in the Lee-Wick extension of the Standard Model*  
February 2012
9. HEP phenomenology joint Cavendish-DAMTP seminar series  
University of Cambridge, Cambridge, United Kingdom  
Title:*The other Higgses, at resonance, in the Lee-Wick extension of the Standard Model*  
January 2012
10. Liverpool High Energy Theory Group Seminar  
University of Liverpool, Liverpool, United Kingdom  
Title:*The other Higgses, at resonance, in the Lee-Wick extension of the Standard Model*  
November 2011
11. Manchester Particle Physics Seminar  
The University of Manchester, Manchester, United Kingdom  
Title:*The other Higgses, at resonance, in the Lee-Wick extension of the Standard Model*  
November 2011
12. DESY Theory Seminar  
DESY, Hamburg, Germany  
Title:*Higgs-Photon Associated Production in Vector Boson Fusion at NLO*  
July 2011



13. Manchester Particle Physics Seminar  
The University of Manchester, Manchester, United Kingdom  
Title: *Higgs-Photon Associated Production in Vector Boson Fusion at NLO*  
May 2011
14. Particle Physics Seminars  
Royal Holloway University London,  
Title: *Theoretical Calculations for Higgs searches at the LHC*  
December 2009
15. Liverpool High Energy Theoretical Physics  
University of Liverpool, Liverpool, United Kingdom  
Title: *The phenomenology of the  $U(1)$  phantom sector of the Standard Model*  
March 2009
16. HEP Theory Group  
Argonne National Laboratory, Argonne, IL USA  
Title: *Vector boson fusion Higgs production at the LHC*  
May 2008
17. Phenomenology Institute  
University of Wisconsin-Madison, Madison, WI USA  
Title: *Vector Boson Fusion Higgs Production at the LHC*  
May 2008
18. Theoretical Physics Department  
Fermi National Accelerator Laboratory, Batavia, IL USA  
Title: *QCD Corrections to Vector-Boson-Fusion Higgs Production Channels*  
May 2008
19. The Particle Physics Theory Group  
University of Edinburgh, Edinburgh, United Kingdom  
Title: *NLO QCD corrections for Higgs production via VBF in association of three jets*  
March 2008
20. Institute for Particle Physics Phenomenology  
Durham University, Durham, United Kingdom  
Title: *Charged Higgs boson production at electron-positron colliders within the MSSM and THDM*  
January 2008
21. High Energy Physics Group  
University of Cambridge, Cambridge, United Kingdom  
Title: *NLO QCD Corrections to Higgs Production via Vector Boson Fusion in Association of Three Jets at the LHC*  
June 2007
22. Particle Physics Theory Group  
University of Glasgow, Glasgow, United Kingdom  
Title: *Anomalous Higgs Couplings*  
Feb 2007
23. Theoretical High Energy Particle Physics Group  
Centre for Mathematical Sciences, Cambridge, United Kingdom  
Title: *Anomalous Higgs Couplings*  
Feb 2007

24. Institute for Particle Physics Phenomenology  
 Department of Physics, Durham, United Kingdom  
 Title: *NLO QCD Jet Distributions for Higgs Production via Weak-Boson Fusion*  
 March 2006
25. Institut für Theoretische Physik  
 Universität Karlsruhe, Karlsruhe, Germany  
 Title: *The Dipole Subtraction Method of Catani and Seymour*  
 May 2005
26. Phenomenology Institute  
 University of Wisconsin-Madison, Madison, WI USA  
 Title: *NLO QCD Corrections for Higgs Production via Weak-Boson Fusion*  
 March 2004

#### WORKSHOPS ATTENDED

1. Les Houches Workshop: Physics at TeV Colliders  
 May 30 – June 8, 2011  
 Ecole de Physique des Houches, Les Houches, France
2. Galileo Galilei Institute for Theoretical Physics Workshop:  
 Searching for New Physics at the LHC  
 October 4 – 23, 2009  
 Arcetri, Florence, Italy
3. CERN Theory Institute: SM and BSM physics at the LHC  
 August 3–28, 2009  
 CERN, Geneva, Switzerland
4. IoP Half Day meeting: Theory for experimentalists  
 February 20, 2008  
 Durham, United Kingdom
5. Higgs Maxwell Workshop: Challenges for the LHC  
 February 13, 2008  
 Edinburgh, United Kingdom
6. Galileo Galilei Institute for Theoretical Physics Workshop:  
 Advancing Collider Physics: from Twistors to Monte Carlos  
 August 25-September 15, 2007  
 Arcetri, Florence, Italy
7. Higgs Maxwell Workshop: Challenges for the LHC  
 February 7, 2007  
 Edinburgh, United Kingdom
8. 1st ARTEMIS Workshop  
 January 25-26, 2007  
 London, United Kingdom
9. Workshop HP2: High Precision for Hard Processes at the LHC  
 September, 6-9 2006, Zürich, Switzerland
10. TEV4LHC Workshop, 3rd meeting  
 April 28-30, 2005, CERN

#### UNIVERSITY SERVICE

- Physics Scholarship Committee Chair, Wichita State University, 2017 - present
- XSEDE Campus Champion, Wichita State University, 2018 - present
- LAS Exceptions Committee, Wichita State University, 2017 - present
- Co-organizer of the Weekly Physics Chat, Wichita State University, 2017 - present
- Faculty Senator, 2019 - present
- ITS Governance Committee, 2019 - present
- Campus Champion for the BeoShock HPC system, 2019 - present

#### WORKING GROUPS

- LHC Higgs Cross Section Working Group
- HL/HE-LHC Physics Workshop - Standard Model Working Group

#### HONOR SOCIETIES, AWARDS, AND MEMBERSHIPS

- Sigma Pi Sigma – Physics Honor Society
- Phi Eta Sigma – Freshman Honor Society
- Phi Eta Sigma 1996-1997 Eau Claire Chapter President
- 1997 Phi Eta Sigma Scholarship Award
- Golden Key National Honor Society
- American Physical Society