

Curriculum Vitae

Vincent G.J. Rodgers

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EDUCATIONAL AND PROFESSIONAL HISTORY

1. Higher Education

- Syracuse University, Syracuse, N.Y.
1982-1985, Theoretical Particle Physics
Ph.D. Aug. 1985
- Syracuse University, Syracuse, N.Y.
1980-1982, Theoretical Particle Physics
M.S. Aug. 1982
- University of Dayton, Dayton, Ohio
1976-1980, Physics major, Math minor, Computer Science minor
B.S. Apr. 1980

2. Professional and Academic Positions

- Professor, August 2004 - Present
- Associate Professor, June 1995 - July 2004
The University of Iowa, Iowa City, IA
- Assistant Professor, Sept 1989 - June 1995
The University of Iowa, Iowa City, IA
- Postdoctoral Research Associate, Sept 1987 - Sept 1989
Institute for Theoretical Physics, State University of New York, Stony Brook, NY
- Postdoctoral Research Associate, Sept 1985 - Sept 1987
Institute for Fundamental Theory, University of Florida, Gainesville, FL
- Research Assistant and Numerical Analyst, Jan 1979 - Sept 1980
University of Dayton Research Institute and Wright Paterson Air Force Base

3. Other Positions

- Co-Director, Iowa Bioscience Advantage, 2005-Present
- Founder and Organizer, Café Scientifique Iowa City

- Hawkeyes on Science Co-Director 2003-Present
- MESA/Iowa City Community School District Faculty Advisor 1994-Present

4. Honors and Awards

- UI Faculty Development Award, Fall 2002
- Fellow of the National Society of Black Physicists, March 2001
- Eduard Bouchet Award, National Conference of Black Physics Students, MIT 1997
- UI Faculty Development Award, Fall 1996
- Outstanding Teaching Certificate, The University of Iowa Council of Teaching 1994
- Stellar Achievement Award, St. Louis, American Newspaper 1992
- Old Gold Summer Fellow, University of Iowa, 1990-1991
- Outstanding Graduate Research Award, Sigma Xi, Syracuse Chapter 1985
- Chester Davis Fellowship, University of Indiana, 1985

5. Memberships

- American Physical Society (APS), since 1985
- American Association of Physics Teachers (AAPT), since 2004
- National Society of Black Physicists (NSBP), since 1990

6. Research Interests

- Theoretical Particle/String Physics
- Mathematical Physics
- Theoretical Cosmology

SCHOLARSHIP

Refereed Publications⁴

1. “A Geometric Action for the Courant Bracket,” by X. Liu, L. A. P. Zayas, V. G. J. Rodgers and L. Rodriguez, arXiv:hep-th/0610021 submitted to *JMP*
2. “General Coordinate Transformations as the Origins of Dark Energy,” by V. G. J. Rodgers and T. Yasuda, arXiv:hep-th/0601113. Accepted for publication in *Int. Jour. Mod. Phys A*
3. “Short Distance Expansion from the Dual Representation of Infinite Dimensional Lie Algebras,” by S. J. Gates, W. D. Linch, J. Phillips and V. G. Rodgers , arXiv:hep-th/0211021, *Comm. of Math. Phys.***246** 333-358 (2004)
4. “Diffeomorphisms to Dark Matter”, by V.G.J. Rodgers and Takeshi Yasuda, *Mod. Phys. Lett. A* **18** 2467-2474 (2003)
5. “Chiral Supergravitons Interacting with a 0-Brane N-Extended NSR Supervirasoro Group” by A. Boveia, Bjorg A. Larson, V.G.J. Rodgers, S.James Jr. Gates, W.D. Linch, III, J.A. Phillips, Dagny M. Kimberly, *Phys. Lett. B* **529**, 222-232 (2002)
6. “Supergravitons Interacting with the Supervirasoro Group”, by S.James Gates, Jr. and V.G.J. Rodgers, *Phys. Lett. B* **512**, 189-196 (2001)
7. “The Image of Self Dual QCD Strings in Four Dimensions”, by Bob Bacus and V.G.J. Rodgers, *Comp. Phys. Commun.* **136**, 37-53 (2001)
8. “Irreducible Decomposition of 10 D Chiral Sigma Matrices”, by S. James Gates, Jr., B. Radak, V.G.J. Rodgers, *Comp. Phys. Commun.* **136** 173-181, (2001)
9. “Superspace Geometrical Realization of the N-Extended Super Virasoro Algebra and its Dual” by C. Curto, S. James Gates, Jr. and V.G.J. Rodgers, *Phys. Letts. B***480** 337-347, (2000)
10. “Interaction of a String-Inspired Graviton” by Thomas Branson, V.G.J. Rodgers, and Takeshi Yasuda *Inter. Jour. Mod. Phys.A* **15**, 3549-3562 (2000)
11. “Type B/O Bosonic String Sigma Models.” by By S.J. Gates, Jr. and V.G.J. Rodgers, *Phys.Lett.***B405**, 71-78 (1997)
12. “Yang-Mills, Gravity and Symmetries of String Theories,” by Thomas Branson, R.P. Lano and V. G. J. Rodgers, *Phys. Lett.***B412**, 253-258 (1997)
13. “Evidence for Complex Subleading Exponents from the High-Temperature Expansion of the Hierarchical Ising Model,” by Y. Meurice, G. Ordaz and V. G. J. Rodgers, *Phys. Rev. Lett.***75**, 4555-4458 (1995)

⁴Authors are ordered alphabetically.

14. "A Truly Crazy Idea About Type-II B Supergravity and Heterotic Sigma Models," by S.J. Gates Jr. and V.G.J. Rodgers, *Phys. Lett.* **B357**, 552-557 (1995)
15. "A Study of Fermions on a Cylinder Coupled to Gauge and Gravitational Fields," by Ralph Lano and V.G.J. Rodgers, *Nucl. Phys. B* **B437**, 45-59 (1995)
16. "A 2D Inspired 4D Theory of Gravity," by V.G.J. Rodgers, *Phys. Lett.* **B336**, 343-346 (1994)
17. "A Numerical Study of the Hierarchical Ising Model: High Temperature Versus Epsilon Expansion," by Y. Meurice, G. Ordaz and V.G.J. Rodgers, *Jour. Stat. Phys.* **17**, 607-626 (1994)
18. "Applications of W -algebras to BF Theories, QCD, and 4D Quantum Gravity," by Ralph Lano and V.G.J. Rodgers, *Mod. Phys. Lett.* **A7**, 1725-1736 (1992)
19. "QCD Instantons and 2D Surfaces", by V.G.J. Rodgers, *Mod. Phys. Lett.* **A7**, 1001-1008 (1992)
20. " W_∞ and Effective Actions for Self-Dual Einstein Gravities," by V.G.J. Rodgers, *Mod. Phys. Lett.* **A6**, 1893-1990 (1991).
21. "A W_2 Effective Action," by V.G.J. Rodgers, *Mod. Phys. Lett.* **A6**, 1045-1052 (1991)
22. "The Method of Coadjoint Orbits Applied to the Super Virasoro Algebra," by G.W. Deluis, P. van Nieuwenhuizen, and V.G.J. Rodgers, *Inter. Journ. Mod. Phys.* **A5**, 3943-3984 (1990)
23. "From Co-Adjoint Orbits to Scale Invariant $WZNW$ Type Models and 2 – D Quantum Gravity," by Balram Rai and V.G.J. Rodgers, *Nucl. Phys.* **B341**, 119-133 (1990)
24. "The Superstring, Diff $S1/S1$ and Holomorphic Geometry," by D. Harari, D.K. Hong, P. Ramond, and V.G.J. Rodgers, *Nucl. Phys.* **B294**, 556-572 (1987)
25. "The Explicit Gauge Invariance of the Free Closed Strings and Open Fermionic Strings," by P. Ramond, V.G.J. Rodgers, and R.R. Viswanathan, *Nucl. Phys.* **B293**, 293-316 (1987)
26. "Algebraic Structure of Open String Interaction," by P. Ramond and V.G.J. Rodgers *Phys. Rev.* **D34** 2352-2359 (1986)
27. "Gauge Invariant Field Theory of Free Strings," by D. Pfeffer, P. Ramond, and V.G.J. Rodgers, *Nucl. Phys.* **B276** 131-172, (1986)
28. "Quantum Aspects of Topological Solitons," by V.G.J. Rodgers, UMI 86-03772 (microfiche), August 1985, Ph.D. Thesis
29. "Dibaryons as Chiral Solitons," by A.P. Balachandran, F. Lizzi, and V.G.J. Rodgers *Nucl. Phys.* **B256** 525-556, (1985)
30. "A Doubly Strange Dibaryon in the Chiral Model," by A.P. Balachandran, A. Barducci, F. Lizzi, V.G.J. Rodgers, and A. Stern *Phys. Rev. Lett.* **52** 887-890, (1984)
31. "Topological Symmetry Breakdown in Nematics and He-3," by A.P. Balachandran, F. Lizzi, and V.G.J. Rodgers, *Phys. Rev. Lett.* **50** 1818

32. "Self-Adjointness of the Dirac Hamiltonian in Point Instanton and Meron Fields," by F. Lizzi, and V.G.J. Rodgers, *Phys. Rev.* **D30** 442-446, (1984)
33. "Calculating a Relaxation Spectrum from Experimental Data via Quadratic Programming With and Without Regularization,"
by C.Y.-C. Lee, D.R. Wiff, and V.G.J. Rodgers,
Journal of Macromolecular Science, Physics Edition **B19** 212-225 (1981)

Pending Publications

- "Superspace Geometrical Realization of the N -Extended Super Kac-Moody Algebra and its Dual," by Ibrahima Bah, S.J. Gates II, Joseph Phillips, V.G.J. Rodgers (manuscript in progress)
- "Tensions and Excitations of k -strings via the Gauge/Gravity Correspondence," by Leopoldo A. Pando Zayas and V. G. J. Rodgers (manuscript in progress)

Conference and Technical Reports

1. "Yang-Mills, Gravity and 2D String Symmetries", by V.G.J. Rodgers, Conference Proceedings, Boston 1998 - Particles, Strings and Cosmology, 657-661, QCD 161:I69:1998
2. "Yang-Mills, Gravity and 2D String Symmetries", by V.G.J. Rodgers, Conference Proceedings, NSBP XXV Annual Day of Scientific Lectures and 21st Annual Meeting, Mar. 1998
3. "Chiral Symmetry and Skyrmion - Quark Mixing," by V.P. Nair and V.G.J. Rodgers, published in Proceedings of the Seventh Annual Montreal-Rochester-Syracuse-Toronto Meeting, May 1985
4. "Skyrmion Quark Mixing," by V.P. Nair and V.G.J. Rodgers June 1984. Published in Lewes Workshop 1984, 97-101 (QC174.26:W62:1984).
5. "Anomalous Symmetries and Induced Currents", by D. Karabali, V.P. Nair, and V.G.J. Rodgers, Print-85-0176 (IAS, Princeton), December 1984.
6. "A Restriction on Skyrmion - Fermion Couplings", by V.G.J. Rodgers and G. Sparano, SU-4228-321 (Syracuse U.), July 1985
7. "Symmetry Reduction in the Presence of Gut Monopoles", by F. Lizzi, V.P. Nair, and V.G.J. Rodgers, SU-4222-269 (Syracuse U.), September 1983

Grants

Grants and Contracts: Internal

1. Instructional Improvement Award: Visual Aids for the course **Physics of the Body**, PI, \$2000
2. CIFRE: "Extra-Galactic Structure of Gravity", Jan 1999- June -1999, PI, \$5,000

3. Obermann Fellowship: "Towards a Quantum Theory of Gravitation", June 30, 1996 - July 31, 1996, Co-PI, with Prof. Thomas Branson (Math) \$3,500
4. Carver Grant: "PHASE TRANSITIONS IN GRAVITY" 1993 \$5,000
5. WEEG Instructional Computing Proposal: Video disc for Physics 1993 \$2,000
6. Old Gold Fellow: Summer 1991, University of Iowa \$2,000
7. Interdisciplinary Research Assistantship: Prof. Thomas Branson was co-principal investigator \$10,000 1990-1991 (Math-Physics)
8. Old Gold Fellow: Summer 1990, University of Iowa PI, \$2,000

Grants and Contracts: External

1. Bauder Fund: "Hawk-Eyes on Science", December 2004, \$1000
2. (with Dale Stille) APS Grant: "Hawk Eyes on Science", December 2004, \$10,000
3. NSF Grant: PHY-9103914, "Conformal Symmetry, Four Manifolds, and QCD", September 1991-January 1994, PI, \$36,500
4. NSF Grant: PHY-9411002, "Issues in Gauge Theories", September 1994-January 1997, PI, \$57,000
5. NSF Grant: PHY-0244377, "From Diffeomorphisms to Dark Matter", June 2003-June 2006, PI \$50,000

Invited Lectures and Conference Presentations

Invitations/Conferences: International

1. Invited Talk: "Diffeomorphisms and Dark Matter", given at *Spacetime and Fundamental Interactions: Quantum Aspects*, A conference to honor A. P. Balachandran's 65th birthday, Vietri sul Mare - Salerno - Italy (May 2003)
2. Conference Talk: "Yang Mills, Gravity and 2D String Symmetries", 6th International Symposium on Particles, Strings and Cosmology (March 1998), North Eastern University
3. Theory Seminar: "Covariant String Field Theory", Informal Summer School on Superstrings, Argonne National Laboratories (June, 1986)
4. Theory Seminar: "Skyrmion-Quark Mixing", The Seventh Annual Montreal-Rochester-Syracuse-Toronto, University of Rochester (May, 1985)
5. Invited Visiting Scientist: Institute of Science, Bangalore, India (September-November 1984)

Invitations/Conferences: National

1. Invited Talk: *Miami 2006*, "A Geometric Action for the Courant Bracket"

2. Colloquium: “Anatomy of String Theory”, Creighton University, Omaha, Nebraska, Nov. 2006
3. Invited Participant: “Affine Hecke Algebras, The Langlands Program, Conformal Field Theory and Matrix Models” CIRM - Luminy, France, 2 July - 14 July, 2006
4. Invited Talk: *Miami 2005*, “Can the Algebra of Diffeomorphisms Explain Dark Energy?”
5. Invited Talk: American Physical Society, April 2005 Meeting, “Diffeomorphisms and Dark Energy”
6. University of Iowa Series of talks on the AdS/CFT conjecture Fall 2005 - Spring 2006
7. Several annual talks at the University of Iowa in Math Physics and Joint Experimental and Theoretical Physics Seminar
8. Colloquium: “Anatomy of String Theory”, University of Kansas, Lawrence, Kansas, Jan. 2005
9. Colloquium: “Symmetry in Gravity: From General Relativity to String Theory”, St. Benedictine, Kansas, April, 2004
10. Colloquium: “Symmetry in Gravity: From General Relativity to String Theory”, University of Miami, April 2004
11. Invited Presentation: “Fundamentals of Physics”, National Conference of Hispanic Professional Engineers, Jan, 2004
12. Invited Participant: Workshop of “Conformal Symmetry in Geometry, Analysis, and Physics”, The American Institute of Mathematics, Palo Alto, CA (August, 2003)
13. Invited Talk: “Actions From the Dual of Algebras ”, given at *Pierre Fest*, A conference to honor Pierre Ramond’s 60th birthday, (Gainesville, FL), Feb 2003
14. Physics Colloquium: “Symmetry in Gravity: From General Relativity to String Theory”, North Carolina A & T (November, 2002)
15. Invited Talk: “Coadjoint Representation of the Super Virasoro Algebra and Super Gravitons”, given at Conference of African American Researchers in the Mathematical Sciences 8, Princeton University (June, 2002)
16. Physics Colloquium: “The Trouble with Gravity”, Florida Institute of Technology, Melbourne, FL (November, 2001)
17. Invited Member: Workshop on Geometrical Aspects of Spectral Invariants Mathematical Science Research Institute, Berkeley, CA (April-May 2001) (see <http://www.msri.org/>)
18. Physics Colloquium: “The Trouble with Gravity”, Grinnell College, Grinnell, IA (Feb. 2001)
19. Physics Colloquium: “Gravity, the BIG G!”, Butler University, Indianapolis, IN (Dec. 1999)
20. Theory Seminar: “A Gravitational Order Parameter?”, University of Maryland, College Park (October 1998)

21. Theory Seminar: “Yang Mills, Gravity and 2D String Symmetries”, University of California, Berkeley (April 1998)
22. Theory Seminar: “Yang Mills, Gravity and 2D String Symmetries”, Syracuse University (March 1998)
23. Theory Seminar: “Yang Mills, Gravity and 2D String Symmetries”, City College, CCNY, NY,NY (March 1998)
24. Theory Colloquium: ‘Yang Mills, Gravity and 2D String Symmetries”, NSBP Conference, University of Kentucky (March 1998)
25. Physics Colloquium: “ Do Physicists Play God?: The Big Bang”, Coe College, Cedar Rapids, IA, (Feb. 1998)
26. Invited Participant: Aspen Center for Physics, (July 1997)
27. Theory Seminar: “The Action Principle and Quantum Mechanics”, National Institute of Standards and Technology, Greenbelt, MD (June 1997)
28. Theory Seminar: “Noether’s Theorem and Symmetry in Physics”, Central Michigan University (March 1997)
29. Theory Seminar: “4D Physics From 2D Physics”, University of Florida, Gainesville (September 1996)
30. Theory Seminar: “Coadjoint Orbits and Geometric Actions”, American Mathematical Society, Iowa City, (March 1996)
31. Luncheon Address: NSBP Conference, Washington, D.C., (Mar. 1995)
32. Theory Seminar: “A Gravitational Theory Arising From 2D String Symmetries”’, Iowa State University, (Sept, 1994)
33. Theory Seminar: “Building Physical Theories”, Prairie View A & T (April 1994)
34. Theory Seminar: “Topological Defects in Physics”, Mississippi State University (March 1994)
35. Public Lecture: “The History of Science: A Physicist’s Viewpoint”, Mississippi State University (March 1994)
36. Physics Colloquium: “The Structure of Theories in Elementary Particle Physics”, North Carolina A & T, (March 1994)
37. Invited Participant: Mathematical Sciences Research Institute, Berkeley, CA (Jan 1994)
38. Theory Seminar: “Noether’s Theorem in Physics”, Carleton College, Carleton, MN. (March 1993)
39. Public Lecture: “The History of Science: A Physicist’s Viewpoint”, Carleton College, Carleton, MN. (March 1993)
40. Theory Seminar: “From Coadjoint to WZNW models and 2D Polyakov Gravity”, University of Maryland, (March 1992)

41. Theory Seminar: “QCD and 2D Surfaces”, Institute of Mathematical Sciences, Madras, India (Jan. 1992)
42. Public Lecture: “Contributions of Non-European Cultures to Science”, University of Notre Dame and the Ford Foundation, (June 1991)
43. Theory Seminar: “Effective Actions and Coadjoint Orbits”, Iowa State University, (Nov. 1991)
44. Theory Seminar: “Instantons and 2D Surfaces”, University of Maryland, (Nov 1991)
45. Participant: “Symmetry and Strings” Conference, Stony Brook, NY (March 1991)
46. Colloquium: “Topology in Physics”, The University of Iowa (April 1989)
47. Theory Seminar: “2D Supergravity from the Super Virasoro Algebra”, University of Maryland (April 1989)
48. Theory Seminar: “2D Supergravity from the Super Virasoro Algebra”, University of Miami (Feb 1989)
49. Theory Seminars: Various seminars at the Institute for Theoretical Physics, SUNY Stony Brook (1987-1989)
50. Visiting Scientist: Institute for Theoretical Physics, University of California at Santa Barbara (July-Aug 1986)
51. Theory Seminar: Several Seminars at the University of Florida, (1986-1987)
52. Invited Participant: Aspen Center for Physics, (June-July 1986)
53. Theory Seminar: “Covariant String Field Theory”, Syracuse University (November 1985)
54. Invited Speaker: “Protons as Solitons”, The National Technical Association, Houston, TX (July 1985)
55. Participant of the Theoretical Advanced Study Institute, Yale University (June-July 1985)
56. Participant at the Symposium on Anomalies, Geometry and Topology, Argonne National Laboratories (March 1985)
57. Invited Participant: The Lewes Center for Physics, Workshop on Solitons in Nuclear Physics (June, 1984)

Conference Organization/Administration

1. Organizing Committee: The 2007 Midwest Geometry Conference - In Honor of Thomas P. Branson (1953-2006) (May 2007)
2. Conference Organizer National Society of Black and Hispanic Physicist, String Theory Session: 2005
3. Conference Organizer (with Sylvester J. Gates) National Society of Black and Hispanic Physicist, String Theory Session: 2004

4. Organizer: (with John Beem and Thomas Branson) Gravitation: 10th Annual Midwest Geometry Conference (April 2002)
5. Organizer: (with Thomas Branson) Physical Perspectives: 10th Annual Midwest Geometry Conference (April 2000)
6. Organizing Committee: National Society of Black Physicists, 2003 Annual Conference, Atlanta, GA

TEACHING AT THE UNIVERSITY OF IOWA

Distinct Courses Taught at Iowa <i>Introduced and Developed This Course</i>	
Course Title	Semesters Taught
Graduate Quantum Mechanics I (29:245)	Fall 1989, Fall 1990
Graduate Quantum Mechanics II (29:246)	Spring 1990, Spring 1990
<i>Advanced Quantum Field Theory I</i> (29:220)	Fall 1991
<i>Advanced Quantum Field Theory II</i> (29:220)	Spring 1992
Particle Physics (29:192)	Spring 1992
Physics for Scientists and Engineers I (29:17)	Fall 1992, Spring 2003
Physics for Scientists and Engineers II (29:18)	Spring 1993
<i>Physics for Physics Majors I</i> (29:27)	Fall 1993, Fall 1994
<i>Physics for Physics Majors II</i> (29:28)	Spring 1994
Group Theory (29:99)	Spring 1995
<i>Undergraduate General Relativity I</i> (29:99)	Fall 1995, Spring 1999 Spring 2002
<i>Undergraduate General Relativity II</i> (29:99)	Spring 1996, Fall 1999
Quantum Mechanics I (29:140)	Fall 1995, Fall 2001
Quantum Mechanics II (29:141)	Spring 1996, Spring 2002
Graduate General Relativity (29:273)	Spring 1997, Fall 2000
Electricity and Magnetism I (29:129)	Fall 1997, 1998, 2003
Electricity and Magnetism II (29:130)	Spring 1998, 1999, 2004
College Physics (29:08)	Fall 1999
<i>Physics of the Body</i> (29:105)	Spring 2000, Spring 2001
Physics for Physics Majors III (29:29)	Fall 2004
<i>String Theory I</i> (29:248)	Spring 2005
Graduate Classical Electrodynamics I (29:213)	Fall 2005, Fall 2006
Graduate Classical Electrodynamics II (29:214)	Spring 2006

Research Students

University of Iowa Students Advised			
Degree Objective	Student Name	Years	Outcome
Ph.D.	Ibrahima Bah	2006 - Present	Active
Ph.D.	Kory Stiffler	2006 - Present	Active
Ph.D.	Leo Rodrigues	2005 - Present	Active
Ph.D.	Xiaolong Liu	2004 - Present	Active
Ph.D.	Takeshi Yasuda	1996 - Present	Graduated
M.S. and Ph.D.	Ralph Lano	1989 -1996	Graduated
M.S.	Joseph Modrick	1990 -1994	Graduated
M.S.	Jay Happel	1990 - 1993	Graduated
M.S.	Bob Bacus	1992 - 1998	Graduated
B.S.	Maria Divoky	2005 - 2006	Graduated
B.S.	Stephen Gliske	2005 - 2006	Graduated
B.S.	Nichole Keifer	2005 - 2006	Graduated
B.S.	Sarah Klemuk	1996 - 2000	Graduated
B.S.	Joseph Evans	1997 - 2001	Graduated
B.S.	Antonio Bovia	1997 - 2001	Graduated
B.S.	Nadia Sifri	1993 - 1997	Graduated
B.S.	Laura Laberge	1992 - 1996	Graduated
B.S.	Jackie Coyne	1994 - 1999	Graduated
B.S.	David Reynolds	1994 - 1998	Graduated

Summer Theoretical Physics Session Advisees: Sessions held at Iowa and The University of Maryland				
Degree Objective	Student Name	Summer	Affiliation during session	Present Objective
Ph.D.	Takeshi Yasuda	1999	Iowa	Graduated Ph.D. Iowa
B.S.	Carina Curto	1999-2000	Harvard University	Graduated Ph.D. Duke
B.S.	Dagny Kimberly	2000	Brown	Graduated Ph.D. Imperial
B.S.	Christina Zelano	2000	U.C. Santa Cruz	Ph.D. Berkeley
Ph.D.	William Linch	2000-2002, 2004	UMD	Post Doc SUNY
Ph.D.	Joseph Phillips	2001-2002	UMD	Postdoc @ UF
Ph.D.	Willie Merrill ¹	2001-2003, 2006	UMD	Ph.D. @ UMD
B.S.	Antonio Bovia	2001	Iowa	Ph.D. UCSB
B.S.	Bjorg Larson	2001	Iowa	Ph.D. @ SUNY SB
B.S.	Daniel Chapman	2002	UMD	Ph.D. @ UMD CP
B.S.	Micah Hawkins	2002, 2004	Washington	Ph.D. @ U. Mich.
B.S.	Jessica Till	2003	Vassar College	Ph.D @ Univ. Minn.
B.S.	Matt Barr	2004	University of Maryland	Ph.D. @ Harvard
B.S.	Alexandra Curtin	2004	University of Maryland	Ph.D. @ Penn State
B.S.	Tim Dulaney	2004	University of Maryland	Undergrad @ UMD
B.S.	Ninad Jog	2004, 2005	University of Maryland	Undergrad @ UMD

Summer Theoretical Physics Session Advisees: Continued				
Degree Objective	Student Name	Summer	Affiliation during session	Present Objective
B.S.	Erin Lynch	2004	UMD	UMD
High School	Tencia Lee	2004	High School	Cal Tech
B.S.	Stephen Colodner	2004, 2005	UMD	
B.S.	Andrew Lytle	2004	UI	Grad @ U.of Wash.
B.S.	Kaustabh Singh	2004	U. Bahamas	U of Bahamas
B.S.	Ibrahima Bah (REU)	2005	Lafayette College	Lafayette College
B.S.	Jeffrey Hansen (REU)	2005	U. of Minn, Morris	Graduated
B.S.	Nichole Kiefer	2005	UI	Graduated from UI
B.S.	Osaro Harriott	2005, 2006	Morgan State	Morgan State
High School	Cris Negron	2005	High School	Univ. of Virginia
B.S.	Brislin Thomas	2005	UMD	UMD
B.S.	Benjamin Dalgaard	2005	UI	Graduated
B.S.	Nicholas Romano	2005	UI	Graduated
B.S.	Quentin Collier	2005, 2006	UI	UI
B.S.	Stephen Gliske	2005	UI	Ph.D. @ U of Mich
Ph.D.	Xiaolong Liu	2005, 2006	UI	Ph.D. @ UI
Ph.D.	Leo Rodriguez	2005, 2006	UI	Ph.D. @ UI
B.S.	Heather Bruch	2006	St. Edward	St. Edwards
B.S.	Sannah Ziama	2006	U. Ind.	Purdue UI/Purdue
High School	David Henderson	2006	High School	UMD
B.S.	Renee Harton	2006	MIT	Undergrad @ MIT
B.S.	Scott Kathrein	2006	U.Ill/Urbana	U.Ill/Urbana
High School	Jonathon Samorajski	2006	High School	Alaska
B.S.	William Stem	2006	UMD	UMD
High School	Jay Delgado	2006	UI	B.S. @ UI
B.S.	Advait Nagarkar	2006	UMD	UMD
High School Teacher	Mary Kemp	2006	John Hersey HS	---

¹Ph.D. co-adviser

Ph.D/M.S Exam Committees			
Degree	Student Name	Years	Department
Ph.D.	Kiah Lim Beh	1999	Science Education
Ph.D.	Randy Wills	1992	Physics/Math
Ph.D.	Larry Peterson	1998	Math
M.S.	Joseph Modrick	1994	Physics
M.S.	Jay Happel	1993	Physics
M.S.	Bob Bacus	1998	Physics
M.S.	Brian Meland	2006	Physics
Ph.D.	Phillip Moore	1990	Physics
Ph.D.	Gustavo Ordaz-Hernandez	1996	Physics
Ph.D.	Dal Soo Oh	1998	Physics
Ph.D.	Lara Pasquali	1999	Physics
Ph.D.	Maria Roco	1994	Physics
Ph.D.	Ralph Lano	1996	Physics
Ph.D.	Steve Niermann	2000	Physics
Ph.D.	Mehmet Aykac	2000	Physics
Ph.D.	Doo Jin Hong	2004	Mathematics
Ph.D.	Takeshi Yasuda	2005	Physics

Other Instructional Activities - Secondary Summer Training Program (SSTP), Summer Higher Educational Opportunity Program (SHROP), Summer Research Opportunity Program (SROP), Research Experience for Undergraduates (REU)

University of Iowa Students Advised for SHROP and SSTP		
Student Name	Year	UI Program
Sannah Ziama	2006	SROP
Scott Kathrein	2006	REU
Heather Bruch	2006	SROP
Quentin Collier	2005, 2006	SHROP
Ibrahima Bah	2006	REU
Moira Truesdell	1998	SSTP
Starlene McDuffie	1998	SSTP
Sharon Kim	1997	SSTP
Tom Cox	1997	SSTP
Kelly Nash	1997	SHROP
Sharon Smith	1996	SHROP
Richard Zentko	1994	SSTP
Rachel Williams	1994	SSTP
Ivan Rosero	1993	SSTP
Dennis Ruhl	1993	SSTP
Erik Sachs	1991	SSTP
John Veson	1991	SSTP

SERVICE

1. Department

1. GAANN Grant PI for Department: 2006
2. Hawkeyes on Science Co-Director: Spring 2005 - Present
3. Café Scientifique Iowa City Founder/Organizer: Fall 2005 - Present
4. Condensed Matter Theory Search Committee: Fall 2004 - Spring 2005
5. World Year Physics 2005 Committee: Fall 2004 - Winter 2005
6. Departmental Computing Committee: Nov 2003 - Present
7. Retention Subcommittee: Oct 2003 - Fall 2005
8. Educational Operations - Sept 2003- Jan 2004
9. GAANN Grant PI for Department: 2005
10. GAANN Grant PI for Department: 2004
11. Colloquium Chair: 2003 - Present
12. Department Library Committee: Sept. 1990 - Present
13. Recruitment Talks/Travel 2-3 per year
14. Qualifying Exam Committee: 2000 - 2001
15. Recruitment Subcommittee: 1998-2000
16. Undergraduate Brochure development: 1998-1999
17. Departmental Executive Committee: 1997 - 1999
18. Department Computer Advisory Committee 1997-1998
19. Undergraduate Faculty Coordinator and SPS Adviser: 1993 - 1998
20. Undergraduate Liaison: 1991-1996
21. Departmental Ad Hoc Strategic Planning Committee, Chair, 1997-1998
22. Departmental Graduate Admissions Committee: Sept. 1992 - 1996
23. Undergraduate Computing Facilities Adviser: Spring 1993 - 1996
24. High Energy Theory System Administrator (Sept. 1989 - Oct. 2003)
25. Preprint Library Administrator: May 1991-June 1997;
26. Physics Department Educational Operations: Sept. 1991 - 1993
27. Physics Department Search Committee (Laser Center): 1993
28. Physics Department PPB Committee: 1990 - 1991
29. Graduate Admissions: 1992-1995

2. University

1. Co-Director of the Iowa Biosciences Advantage: 2005- Present
2. Opportunity at Iowa Speaker/Presenter (2004): 10 May, 23 Sept, 22 Oct, 4 Nov, 18 Nov, 3 Dec.
3. Belin Center, Information and Technology Fair (1998,1999,2001, 2004, 2005)
4. Hawkeye Visiting Days Participant (1998-1999)
5. Opportunity at Iowa Search Committee 1998
6. Presidential “Core Values” Committee 1997
7. Collegiate Faculty Developmental Leave Selection Committee, 1997
8. Presidential Scholars Selection Committee (1996 - 1998)
9. FIPSE planning committee (1995-1997)
10. Search Committee for Director of Special Support Services: 1994

3. Professional

- Faculty Adviser: Center for Particles and Strings, The University of Maryland (1999 - Present)- Willie Merrell
- National Society of Black Physicists: NSBP Net monitor (1993 - 2002)
- National Society of Black Physicists: Sloan Fellowship committee (2005)
- Reviewer for Mathematical Reviews (since 1990)
- Referee for International Journal of Modern Physics (since 1991)
- Referee for Physical Review Letters and Physical Review (since 1986)
- Book Reviewer for Norton Publications (since 1995)
- Book Reviewer for Saunders College Publishing (1998)
- Referee for IOP Publications (since 1998)
- ACT test reviewer (since 1995)
- GRE test writing and reviewer, Physics Test (since 1995)
- Book Reviewed: “Quantum Field Theory” by L.H. Ryder, in the American Scientist, Jan. 1986
- Member American Physical Society (since 1985)
- Member National Society of Black Physicists (since 1990)
- Member American Association of Physics Teachers

4. Public Engagement (Selected)

- Speaker: Family Adventures in Science Oct. 2005, Apr. 2006, Oct. 2006
- Speaker: Café Scientifique “So What Is String Theory Anyway?” 8 Dec. 2005

- Hawkeyes On Science - Presenter/demonstrations, more than 40 since 2005
- Weekly Tutoring: MESA/Iowa City Community School District (Fall 2000 - Present)
- “Minority Speaker Forum:” Oct, 2004, City High School, Iowa City, IA
- Organizer for Davenport Schools System: SECME - Accurate Reckoning Program Fall 2003 - 2005
- Judge: L-AMP, STEM Conference, Baton Rouge, LA (Nov. 2002)
- Invited Talk: “The Nature of Physical Theories,” John Hersey High School, Arlington, IL (May, 2001)
- Invited Talk: “The Nature of Physical Theories,” Northwest Junior High, Coralville, IA (1999 - 2004)
- Job Shadowing: Jessica Till, Northwest Junior High, Iowa City, IA (May, 1998)
- Job Shadowing: Thomas Cox, Muscatine High School, Muscatine, IA (May, 1997)
- Commencement Address: John Baptist De Sable High School (with Prof. Victor Rodgers), Chicago, IL (June, 1995)
- Invited Talk: “The Nature of Physical Theories,” Regina High school, Iowa City, IA (May, 1995)
- Science Fair Judge, Columbia, MS (March, 1994)
- Pen-Pal Partnership Participant: University of Iowa (1990-1993)
- Invited Talk: King-Perkins Elementary School, Des Moines, IA (Mar. 1992)
- Invited Talk: “A Brief History of Science and Society”, Great Books Workshop, Iowa City, IA (June, 1993)
- Invited Talk: Invention Convention, Des Moines Area Schools (March, 1991)
- Invited Talk: King-Perkins Elementary School, Des Moines, IA (March, 1991)
- Invited Talk: Burlington High School, Burlington, IA. (April, 1991)
- Invited Talk: Burlington High School, Burlington, IA. (Apr. 1992)
- Invited Talk: Donnelson High School, Donnelson, IA, (May, 1991)
- Invited Talk: J. Phillip Randolph High School, NY, NY (Sept. 1988)
- Mentor Program Participant: SUNY Stony Brook (1987-1989)
- Peer-Tutor, Higher Educational Opportunity Program: Syracuse University (1981-1982)