



Jorge Piekarewicz

FLORIDA STATE UNIVERSITY

Curriculum Vitae

Born: **August 12, 1956**, *México D.F., México.*

Position: **Robert O. Lawton Distinguished Professor**, *Florida State University.*

Research: **Theoretical and Computational Physics.**

Astrophysics, *Neutron Stars, Molecular Dynamics Simulations.*

Nuclear Physics, *Density Functional Theory, Exotic Nuclei, Machine Learning.*

Education

1976–1981 **BSc - Physics**, *Universidad Nacional Autónoma de México.*

1981–1985 **PhD - Physics**, *University of Pennsylvania.*

Professional Experience

1985–1987 **Postdoctoral Research Fellow**, *California Institute of Technology.*

1987–1990 **Postdoctoral Research Fellow**, *Indiana University, Bloomington.*

Academic Positions – Florida State University

1990–1994 **Assistant Scientist**, *Supercomputer Computations Research Institute.*

1994–1998 **Associate Scientist**, *Supercomputer Computations Research Institute.*

1998–2002 **Assistant Professor**, *Department of Physics.*

2002–2005 **Associate Professor**, *Department of Physics.*

2005–2016 **Professor**, *Department of Physics.*

2016–2020 **Distinguished Research Professor.**

2020–present **Robert O. Lawton Distinguished Professor.**

Department of Physics – Florida State University Tallahassee, FL 32306-4350

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Research Highlights

- **Elected Fellow of the American Physical Society**, *“For seminal and sustained contributions on fundamental nuclear physics problems using novel computational tools, particularly on the nuclear equation of state and its impact on the physics of neutron star”*.
- **Jesse W. Beams Award, Southeastern Section of the American Physical Society**, *“For his achievements in nuclear structure and many-body nuclear theory, and in particular, for his outstanding contributions to the theory of neutron-rich matter and to our understanding of neutron star structure”*.
- **More than 150 Refereed Publications in Peer-Reviewed Journals (30 single-author papers)**.
- **More than 9,800 Citations with an h-index of 52 (iNSPIRE)**.
- **Co-editor of Book entitled “Neutron Star Crust” (Preface by Jocelyn Bell Burnell)**.
- **More than 180 Invited Talks, Colloquia, and Seminars**.
- **Continuously funded since 1992 by a grant from the US Department of Energy**.

Teaching Highlights

- **2001, 2007, 2014, 2019 University Teaching Award**.
- **2017 Graduate Faculty Mentor Award**.
- **Major Research Professor for 13 Graduate Students**.
- **Member of Supervisory Committee for more than 100 Graduate Students**.

Service Highlights

- **Member of the DOE/NSF Nuclear Science Advisory Committee**.
- **Nuclear Theory Writing Group leader DOE/NSF 2015 Long-Range-Plan**.
- **Director Facility for Rare Isotope Beams Theory Alliance**.
- **Chair, National Advisory Committee for the Institute of Nuclear Theory**.
- **Outstanding Referee, American Physical Society**.
- **Excellence in Reviewing Award, Nuclear Physics A (Elsevier)**.
- **DOE/NSF 2023 Long-Range-Plan Committee Member**.

Honors and Awards – Education

1984 Dean's Fellowship, University of Pennsylvania

Honors and Awards – Research

1999 Assistant Professor Award, Florida State University
2002 PAI Award for Excellence in Teaching and Research, Florida State University
2004 Developing Scholar Award, Florida State University
2005 Fellow, American Physical Society
2016 Distinguished Research Professor, Florida State University
2018 Jesse W. Beams Award, Southeastern Section of the American Physical Society
2020 Robert O. Lawton Distinguished Professor, Florida State University

Honors and Awards – Teaching

2000 Instructional Development Award, Florida State University
2001 University Teaching Award, Florida State University
2007 University Teaching Award, Florida State University
2014 University Teaching Award, Florida State University
2017 Graduate Faculty Mentor Award, Florida State University
2019 University Teaching Award, Florida State University

Honors and Awards – Service

2012 Outstanding Referee, American Physical Society
2012 Certificate of Reviewing Excellence, Nuclear Physics A - Elsevier

Research Grants

1992-2001 Dynamical Studies of the Nuclear Response (\$485,000)
2001-2004 From Quarks to the Cosmos (\$207,000)*
2004-2007 From Quarks to the Cosmos (\$585,000)
2007-2010 From Quarks to the Cosmos (\$615,000)
2010-2013 From Quarks to the Cosmos (\$774,000)
2013-2016 From Quarks to the Cosmos (\$393,000)*
2016-2019 From Quarks to the Cosmos (\$432,000)*
2019-2021 From Quarks to the Cosmos (\$310,000)†
2019-2021 From Quarks to the Cosmos (\$320,000)†
2021-2023 From Quarks to the Cosmos (\$320,000)†

* Single PI

† Single PI – Two Year Period

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Reviewer – Journals

European Physical Journal A
European Physics Letters
International Journal of Modern Physics E
Journal of Cosmology and Astroparticle Physics
Journal of Physics G
Nature
Nuclear Physical A
Physics Letters B
Physical Review C
Physical Review Letters
Revista Mexicana de Fisica

Reviewer – Grants

CONICYT (Chile)
Croatian Science Foundation
Department of Energy
Deutsche Forschungsgemeinschaft (Germany)
National Science Foundation (South Africa)
National Science Foundation (USA)
United States–Israel Binational Science Foundation

Departmental Service

1998-2005 Qualifying Exam Committee
1998-2005 Saturday Morning Physics
2003-2013 Planning Committee
2005-2008 Administrative Advisory Committee
2005-2015 Graduate Affairs Committee
2015-2017 Qualifying Exam Committee
2017-2020 Colloquium Committee
2017-2020 Graduate Affairs Committee
2016-present Dirac Lectures Committee
2017-present Awards Committee
2017-present Baugh Committee
2019-present 3-Minute Thesis Competition Committee
2021 Graduate Student Salary Task Force

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University Service

- 2009 Promotion and Tenure Representative
- 2012 Dean of Arts and Science Search Committee
- 2013 Computer Science Department Chair Search Committee
- 2016 Outstanding Teaching Assistant Award Review Committee
- 2016 Postdoc Travel Awards Committee
- 2016 Arts and Science Faculty Travel Awards Committee
- 2009 Promotion and Tenure Representative
- 2018 Robert O. Lawton Selection Committee
- 2018 Honorary Degree Nomination Committee
- 2022 Robert O. Lawton Selection Committee
- 2022 Extraordinary Accomplishment Program Committee
- 2023 Robert O. Lawton Selection Committee
- 2023 FSU Quality Enhancement Plan Committee

Community Service

- 2007 Organizer, Nuclear Physics Town Meeting (Chicago, IL)
- 2009 Committee of Visitors, NSF Division of Physics (Arlington, VA)
- 2010 Committee of Visitors, DOE Office of Nuclear Physics (Germantown, MD)
- 2010 International Advisory Committee, NuSYM10 International (RIKEN, Japan)
- 2010-2012 Executive Committee, Southeastern Section of the American Physical Society
- 2011-2012 Mentoring Award Committee, APS Division of Nuclear Physics
- 2012-2016 Nuclear Science Advisory Committee (NSAC), NSF/DOE
- 2013-present International Advisory Committee, Mexican Symposium on Nuclear Physics
 - 2015 Nuclear Physics Advisory Panel, NSF Physics Division (Arlington, VA)
 - 2015 NSAC Long Range Plan (Kitty Hawk, NC)
 - 2015 Deutsche Forschungsgemeinschaft Physics Review Panel, (Darmstadt, Germany)
- 2016-2018 Executive Committee, APS Division of Nuclear Physics
 - 2017 American Physical Society Bouchet Prize Selection Committee
 - 2017 American Physical Society Rahman Prize Selection Committee
- 2018-present Chair, Institute of Nuclear Theory National Advisory Committee
- 2018-present Director, Facility for Rare Isotope Beams Theory Alliance
 - 2019 Review Panel, Center for Exploration of Energy and Matter (Indiana University)
 - 2020 Review Panel, Experimental Nuclear Physics Program (University of Notre Dame)
 - 2022 Review Panel, NSF Theoretical Nuclear Physics Program
 - 2022 American Physical Society Bethe Prize Selection Committee

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- 2023 Review Panel, DOE Early Career Award
- 2023 NSAC Long Range Plan (Virginia Beach, VA)
- 2023 American Physical Society Bethe Prize Selection Committee

Community Outreach

- 2014 Lecturer, Osher Lifelong Learning Institute (FSU)
- 2015 Keynote Speaker, Future Physicists of FL Induction Ceremony (Tallahassee)
- 2015 Keynote Speaker, Future Physicists of FL Induction Ceremony (Key West)
- 2019 Keynote Speaker, Future Physicists of FL Induction Ceremony (Panama City)
- 2023 Public Lecturer, Café Scientifique, University of Manitoba (Winnipeg)

Organizational Scientific Meetings

- 2002 Organizer, Dirac Symposium (Tallahassee, FL)
- 2008 Organizer, The Lead Radius Experiment Workshop (Newport News, VA)
- 2010 Organizer, Reactions and Nucleon Properties Workshop (Trento, Italy)
- 2013 Organizer, The Calcium Radius Experiment Workshop (Newport News, VA)
- 2015 Discussion Leader, Gordon Research Conference (New London, NH 2015)
- 2015 Organizer, Neutron Skins of Nuclei Workshop (Mainz, Germany 2015)
- 2016 Organizer, Neutron Skins of Nuclei Workshop (Mainz, Germany 2016)
- 2018 Organizer, Nuclear Astrophysics in the New Era of Multimessenger (New York, NY)
- 2022 Organizer, Neutron Rich Matter on Heaven and Earth I (Seattle, WA)
- 2023 Organizer, Neutron Rich Matter on Heaven and Earth II (Seattle, WA)
- 2024 Organizer, DTP/TALENT School on Nuclear Astrophysics (Trento, Italy)

Undergraduate Teaching

- AST-1002 Planets, Stars, and Galaxies
- AST-4217 Physics of Stars
- PHY-4241 Advanced Dynamics
- PHY-4605 Quantum Theory of Matter I
- PHY-5646 Quantum Theory of Matter II

Graduate Teaching

- PHY-5246 Theoretical Dynamics
- PHY-5524 Statistical Mechanics
- PHZ-5305 Nuclear Physics I
- PHZ-5307 Nuclear Physics II

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- PHY-5346 ElectroDynamics I
- PHY-5347 ElectroDynamics II
- PHY-5645 Quantum Mechanics I
- PHY-5646 Quantum Mechanics II
- PHY-6938 Comprehensive-Exam Preparation

Invited Lectures

- 2004 Neutron-Rich Nuclei in Heaven and Earth (Barcelona, Spain)
- 2010 The Exotic Structure of Neutron Stars (João Pessoa, Brazil)
- 2013 The Nuclear Physics of Neutron Stars (Milano, Italy)
- 2015 Models of Nuclear and Neutron Matter (Seattle, WA)
- 2015 The Nuclear Physics of Neutron Stars (Tallahassee, FL)
- 2016 Neutron Skins in Nuclei (Newport News, VA)
- 2018 Nuclear Astrophysics in the New Era of Multi-Messenger Astronomy (Florianopolis, Brazil)
- 2019 Neutron Rich Matter on Heaven and Earth (Milano, Italy)
- 2020 XX Swieca Summer School on Nuclear Physics (Virtual Meeting, Brazil)
- 2021 Nuclear Astrophysics in the New Era of Multi-Messenger Astronomy (Virtual Meeting, Germany)
- 2023 National Nuclear Physics Summer School (University of California, Riverside)

Supervised Postdoctoral Fellows

- 1994-1996 Hsien-C. Jean
- 1996-1997 Fabio Cardarelli
- 1997-1999 Michael Pichowsky
- 2000-2002 Genaro Toledo
- 2009-2010 Herry Kwee
- 2011-2013 Karim Hasnaoui

Supervised Graduate Students

- Ph.D. 1995 Joel Parramore
- Ph.D. 2000 Laith Abu-Raddad
- Ph.D. 2004 Bonnie Todd-Rutel
- Ph.D. 2004 Cosimo Felling
- M.Sc. 2006 Bradley Futch
- Ph.D. 2008 Jutri Taruna

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Ph.D. 2011 Farrukh Fattoyev
Ph.D. 2015 Wei-Chia Chen
Ph.D. 2017 Raditya Utama
M.Sc. 2019 Jesse Hernandez
Ph.D. 2020 Junjie Yang
Ph.D. 2020 Pablo Giuliani
Ph.D. 2021 Daniel Silva
Ph.D. 2024 Marc Salinas*
Ph.D. 2025 Amy Anderson*
Ph.D. 2027 Athul Kunjipurayil*

* Expected Date of Graduation

Supervised Undergraduate Students

2000 Minesh Bacrania
2001 Joshua Hone
2003 Gabriel Pendas
2003 Bryan Williams
2004 Bryan Ellison
2005 Bryan Jesse Weiner
2005 Matthew Buza
2006 Andres Chavez
2006 Mark Flowers
2009 Andrew Lingle
2009 Shawn Havery
2011 Rutger Dungan
2012 Kaelyn Badura
2012 Jennifer Ranta
2012 Cornelius van Wyk
2015 Aaron Magilligan (Honors in the Major)
2018 Eric Britt (Honors in the Major)
2019 Hunter Reaves (Honors in the Major)
2019 Haley Reid (Honors in the Major)
2020 Orion Yeung
2022 Graham O'Donnell (Honors in the Major)

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Supervised K-12 Students

- 1994 Warren Cheng, Middle School Mentorship
- 1994 Alex Schafer, Middle School Mentorship
- 1994 Jason Patterson, High School Mentorship
- 1994 Marion Smith, High School Mentorship
- 1997 Mikolai Fajer, Middle School Mentorship
- 1997 Andrew Smith, Middle School Mentorship
- 2003 Evan Fuller, Middle School Mentorship
- 2003 Luka Sharron, Middle School Mentorship

Physics Ph.D. Committee Member

- 1998 Daryl Hartley – Mark Riley
- 1998 Markus Laukamp – Elbio Dagotto
- 1998 Geoffrey Sylvan – Sam Tabor
- 1999 Paul Cathers – Kirby Kemper
- 1999 Sawako Nakame – Jack Crow
- 1999 Thomas Stalcup – James Brooks
- 2000 Zhi Chen – David Van Winkle
- 2001 Margie Abdelrazek – William Moulton
- 2001 Adam Dooley – Adam Sarty
- 2001 Matthias Mayr – Elbio Dagotto
- 2001 Steven Mitchell – Per Arne Rikvold
- 2002 Elshan Akhadov – James Skofronick
- 2002 Matthew Cooper – Sam Tabor
- 2002 Brian Conolly – Horst Wahl
- 2002 Fivos Drymiotis – Zachary Fisk
- 2002 Danielle Morel – Simon Capstick
- 2002 Isaac Reutel – James Brooks
- 2002 Sameer Walawalkar – Simon Capstick
- 2003 Anthony DeLia – Elbio Dagotto
- 2003 Jeffrey Parker – Peng Xiong
- 2003 Sunmog Yeo – Zachary Fisk
- 2004 Gonzalo Alvarez – Elbio Dagotto
- 2004 Daniel Auto – Howie Baer
- 2004 David Campbell – Mark Riley
- 2004 Mukundan Chakrapani – David Van-Winkle

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2004 Maxim Dzero – Lev Gorkov
2004 Christopher Jackson – Laura Reina
2004 Tadas Krupovnickas – Howie Baer
2004 Zhixian Zhou – Jack Crow
2005 Eric Jobiliong – James Brooks
2005 Muslema Pervin – Simon Capstick
2005 Paschalis Pipidis – Mark Riley
2005 Dimitrije Stepanenko – Nicholas Bonesteel
2005 Eddy Yusuf – Kun Yang
2006 Ibrahim Abou-Hamad – Per-Arne Rikvold
2006 Khaled Al-Hassani– Elbio Dagotto
2006 Azar Mustafayev – Howie Baer
2006 Hyuk Park – Jianming Cao
2006 Florin Popescu – Elbio Dagotto
2006 Bryan Roeder – Kirby Kemper
2006 Cengiz Sen – Elbio Dagotto
2006 Yucel Yildirim – Adriana Moreo
2007 Warren Cluff – Mark Riley
2007 Fernando Febres-Cordero – Laura Reina
2007 Layla Hormozi – Nicholas Bonesteel
2007 Erhong Hu – Stephan Von-Molnar
2007 Daekwang Kau – Horst Wahl
2007 Doan Nguyen – Justin Schwartz
2007 Tony Sumaryada – Alexander Volya
2008 Shahid Ahmad – Shahid Shaheen
2008 Doan-Minh Quoc – Efstratios Manousakis
2008 Trisha Hanners – Samuel Tabor
2008 John Janik – Christophe Wiebe
2008 Alvin Kiswandhi – Simon Capstick
2008 Sangjin Lee – Samuel Tabor
2008 Xiaohang Zhang – Peng Xiong
2009 Moaz Altarawneh – James Brooks
2009 Jyotica Batra – Huan-Xiang Zhou
2009 Ashwani Kumar – Peng Xiong
2009 Tzvetalina Stavreva – Joseph Owens
2009 Harianto Tjong – Huan-Xiang Zhou

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2010 Tran Hoang – Susan Blessing
2010 Lam-Thanh Nguyen – Linda Hirst
2010 Scott Riggs – Gregory Boebinger
2010 Robert Reynolds – Paul Cottle
2010 Alexander Silalahi – Marcia Fenley
2010 Huan Tran – Nicholas Bonesteel
2011 Naureen Ahsan – Alexander Volya
2011 Brian Conner – Christophe Wiebe
2011 Hanna Terletska – Vladimir Dobrosavlj
2012 Weinxin Ding – Kun Yang
2012 Jennifer Misuraca – Stephan Von-Molnar
2012 Benjamin Sadler – Peter Hoeflich
2012 Robert Throckmorton – Oskar Vafek
2012 Hao Wu – Berndt Berg
2013 Ryan Stillwell – Stanley Tozer
2015 Jordon Adams – Andrew Askew
2015 Hossein Javan – Vladimir Dobrosavljevic
2015 Sean Kuvin – Ingo Wiedenhove
2015 Samiyeh Mahmoudian– Vladimir Dobrosavljevic
2015 David McPherson – Paul Cottle
2015 Laurel Winter – James Brooks
2015 Yuhui Zhang – Kun Yang
2016 Samuel Bein – Harrison Prosper
2016 Pavanjeet Kaur – Likai Song
2016 Ajeeta Khatiwada – Andrew Askew
2016 Joon-Il Kim – Peng Xiong
2016 Alex Noble – Scott Stagg
2016 Arka Santra – Andrew Askew
2016 Daniel Zeuch – Nicholas Bonesteel
2017 Jorge Barreda – Peng Xiong
2017 Camila Moir – Gregory Boebinger
2017 Suvadip Das – Efstratios Manousakis
2018 Zulkaida Akbar – Volker Crede
2018 Paul Baity – Dragana Popovic
2018 Lakshmi Bhaskaran – Stephen Hill
2018 Dorsa Komijani – Stephen Hill

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2018 Valery Nguemaha – Huan-Xian Zhou
2019 Danielle Simmons – Peng Xiong
2019 Kalisa Villafana – Mark Riley
2019 Xi Wang – Hanwei Gao

Physics Ph.D. Committee Member (cont.)

2020 Alex Gurfinkel – Per Rikvold
2020 Jacob Hudis – Peng Xiong
2021 Benjamin Asher – Sergio Almaraz
2021 Greta Chappell – Ryan Baumbach
2021 Diogenes Figueroa – Laura Reina
2021 Nathan Gerken – Sergio Almaraz
2021 Vincent Lakey – Kevin Huffenberger
2021 Tsung-Han Lee – Vladimir Dobrosavljevic
2021 Zhengguang Lu – Dmitry Smirnov
2021 Quintin Mabanta – Jeremiah Murphy
2021 Jesus Perello – Sergio Almaraz
2021 Hamidreza Rahmani – Ken Taylor
2022 Alec Fisher – Peter Hoeflich
2022 John McFarland – Efstratios Manousakis
2022 Melissa Shahbandeh – Eric Hsiao
2022 Wenkai Zheng – Luis Balicas
2023 Edmundo Barriga – Paul Eugenio
2023 Sudeshna Chakraborty – Peter Hoeflich
2023 Haoyun Deng – Nicholas Bonesteel
2023 Vazha Loladze – Takemichi Okui
2023 Ashton Morelock – Sergio Almaraz
2023 Charles White – Alexander Volya
2024 Angelica Goncalves – Laura Reina
2024 Ronald Melendrez – Hitesh Changlani
2024 Ruojun Wang – Kun Yang
20xx Mario Benitez – Efstratios Manousakis
20xx Brian Kelly – Mark Spieker
20xx Alicia Remington – Volker Crede
20xx Admir Sehovic – Kevin Fossez

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Non-Physics University Committee Member

- 2007 Ayhan Karaman – Nancy Davis (Ph.D. Education)
- 2010 Jamil Mortada – Sergio Fenley (Ph.D. Mathematics)
- 2011 Christopher Redwood – Jack Saltiel (B.Sc. Chemistry)
- 2011 Lihai Hu – Munir Humayan (M.Sc. Geology)
- 2014 Gregory Dungan – Ettore Aldrovani (Ph.D. Mathematics)
- 2014 Andrew Winters – David Kopriva (Ph.D. Mathematics)
- 2014 Michelle Perry – Anke Meyer-Baese (Ph.D. Scientific Computing)
- 2014 Xiping Zhang – Paolo Aluffi (Ph.D. Mathematics)
- 2018 Michelle Bales – Alan Spector (Ph.D. Psychology)
- 2018 Brian Mastracci – Wei Guo (Ph.D. Engineering)
- 2019 Miguel Macias Contreras – Lei Zhu (Ph.D. Chemistry)
- 2019 Meghan Gardy – Jonathan Bradley (B.Sc. Statistics)
- 2021 Ginger Blonde – Alan Spector (Ph.D. Psychology)
- 2021 Radhika Vaidyanathan – Elizabeth Hammock (Ph.D. Psychology)
- 2023 Brandon Cooper – Eugene De-Prince (Ph.D. Chemistry)
- 2024 Shijie Zhou – Jonathan Bradley (Ph.D. Statistics)

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