

Curriculum Vitae

EDUARDO HECTOR FRADKIN

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ACADEMIC DEGREES:

Licenciado (M.Sc.) en Física, Universidad de Buenos Aires, Argentina (1973)
Ph. D., Physics, Stanford University (1979)
Thesis Title: Phase Transitions in Lattice Gauge Theories (Advisor: Prof. Leonard Susskind)

EMPLOYMENT HISTORY:

Postdoctoral Research Associate, University of California, Santa Cruz (1979)
Postdoctoral Research Associate, University of Illinois (1979-80)
Research Assistant Professor, University of Illinois (1980-1981)
Assistant Professor of Physics, University of Illinois (1981-1984)
Associate Professor of Physics, University of Illinois (1984-1989)
Professor of Physics, University of Illinois (since Fall 1989)
Director, Institute for Condensed Matter Theory (since Fall 2011)
Donald Biggar Willett Professor of Physics, University of Illinois at Urbana-Champaign, invested 2015
Center Professor, Center for Advanced Studies of the University of Illinois at Urbana-Champaign, since 2017

AWARDS:

1. Member of the United States National Academy of Sciences (inducted in 2013)
2. Fellow of the American Academy of Arts and Sciences (inducted in 2009)
3. Fellow of the American Physical Society (since 1998)
4. John Simon Guggenheim Memorial Foundation Fellowship Award, 1998/1999.
5. Arnold O. Beckman Associate, Center for Advanced Study, University of Illinois (1990-91)
6. Arnold O. Beckman Research Award, Research Board, University of Illinois, Academic Year 2006.
7. César Milstein Research Award, MinCyT, Argentina, August 2007, June 2011, and July 2014.
8. Member, American Physical Society
9. Member, Asociación Física Argentina (Argentine Physical Association)
10. Member of the Academia de Ciencias de América Latina (Latin American Academy of Sciences), May 2019.
11. Member of the Academia Nacional de Ciencias (Córdoba, Argentina) since 2019.
12. Fellow of the American Association for the Advancement of Science, November 2021.

VISITING POSITIONS:

1. Visiting Scientist, Institute for Theoretical Physics, University of California, Santa Barbara CA (USA)(Summer, 1980).
2. Consultant at IBM Thomas J. Watson Research Center (Fall 1980).
3. Visiting Scientist, Institute for Theoretical Physics, University of California, Santa Barbara CA (USA)(Summer 1981, Summer 1985, Spring and Summer 1997, Summer 1998).
4. Invited Lecturer, École d'Été de Physique Théorique, Les Houches, France (Summer 1982 and Summer 2009).
5. Visiting Scientist, Commissariat à l'Energie Atomique, Service de Physique Theorique, Saclay, France (Fall 1982).
6. Visiting Professor, Ecole Normale Supérieure, Laboratoire de Physique Theorique, Paris, France (Winter 1983).
7. Visiting Professor, Departamento de Física, Universidad de La Plata, Argentina (Summer 1984, Academic Year 1986-1987, Summer 1995, Summer 1998)
8. External Oponent, Institute of Theoretical Physics, Chalmers University of Technology, Göteborg, Sweden (Summer 1995).
9. Visiting Scientist, Kavli Institute for Theoretical Physics, University of California, Santa Barbara (Spring and Summer 2006).
10. Visiting Professor, Laboratoire de Physique Théorique et Hautes Energies, Université Pierre et Marie Curie (Paris VI) et Denis Diderot (Paris VII), Paris, France (November 1998).
11. Visiting Scientist at the Program on Frontiers in Quantum Computation at the Princeton Center for Theoretical Physics, February 2008.
12. Visiting Professor, Department of Physics, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina (December 2006, July 2010, June 2013).
13. Visiting Professor, Department of Physics, Stanford University, October 15-December 15, 2007.
14. Co-organizer of the Program and Conference on "Higher Temperature Superconductivity" at the Kavli Institute for Theoretical Physics of the University of California, Santa Barbara, CA (USA) (Summer 2009).
15. Co-organizer of the Program "The CFT/Gravity Duality and Condensed Matter Physics" at the Kavli Institute for Theoretical Physics of the University of California, Santa Barbara, CA (USA) (Fall 2011).
16. Co-organizer of the workshop "Field Theoretic Computer Simulations for Particle Physics and Condensed Matter", Boston University (May 8-10, 2014).
17. Co-organizer of the Nobel Symposium "New forms of matter: topological insulators and superconductors", Stockholm, Sweden (June 13-15, 2014).
18. Simons Distinguished Visiting Scholar, Kavli Institute for Theoretical Physics of the University of California Santa Barbara, CA (USA) (September 2-17, 2014, and April 6- May 1, 2015).
19. Co-organizer of the workshop on Intertwined Orders in Strongly Correlated Systems (Laguna Beach, CA), January 29-31, 2016.
20. Co-organizer of the Workshop on Geometrical Degrees of Freedom in Topological Phases at the Banff International Research Station (Banff, Alberta, Canada), August 21-26 (2016).

RESEARCH INTERESTS:

Condensed Matter Theory, Strongly Correlated Systems, Quantum Hall Systems, Topological Phases and Topological Field Theories, Disordered Systems, Quantum Field theory.

DOCTORAL STUDENTS:

1. Dr. Michael Ma (Prof. W. McMillan codirector). B.S, University of Hong Kong. PhD University of Illinois at Urbana-Champaign, July 1982. Dr. Ma is currently an Emeritus Professor of Physics at the University of Cincinnati, Cincinnati, Ohio (USA).
2. Dr. Matthew P. A. Fisher (Prof. A. J. Leggett, main advisor). B.S. Cornell University. PhD University of Illinois at Urbana-Champaign, July 1986. Member of Research Staff at the IBM T. J. Watson Research Center until 1993. Member of the Kavli Institute for Theoretical Physics of the University of California Santa Barbara (1993-2007) and Professor of Physics, University of California Santa Barbara since 1993.
3. Dr. Franco Nori. BS, Universidad Simón Bolívar (Venezuela). PhD University of Illinois at Urbana-Champaign, July 1987. Dr. Nori is a Professor of Physics at the University of Michigan, Ann Arbor MI (USA), and currently he is Group Director of the Quantum Condensed Matter Research Group (QCMRG), at the Center for Emergent Matter Science (CEMS), in RIKEN (Japan) where he is a Chief Scientist.
4. Dr. Avinash Singh. BS, IIT Kanpur (India). PhD University of Illinois at Urbana-Champaign, January 1988. Dr. Singh is currently a Professor of Physics at the Indian Institute of Technology in Kanpur, India.
5. Dr. David Withoff. BS, Illinois Institute of technology. PhD University of Illinois at Urbana-Champaign, July 1988. Dr. Withoff was a member of the staff of Wolfram Research, Champaign IL (USA). He is currently at the University of Alaska, Fairbanks.
6. Dr. Cecilia von Reichenbach. Licenciado and PhD Universidad de La Plata (La Plata, Argentina) July 1988. She is a Professor of Physics at Universidad de La Plata, Argentina.
7. Dr. Joel Cannon; PhD University of Illinois at Urbana-Champaign, July 1989. Dr. Cannon is currently Professor of Physics at Washington and Jefferson College, Washington PA (USA).
8. Dr. Christopher Mudry. BS, Université de Genève, Switzerland. PhD University of Illinois at Urbana-Champaign, July 1994. Dr. Mudry is currently a permanent member of the staff and the Head of the Theory Group of the Paul Scherrer Institute at Villigen, Switzerland.
9. Dr. Ana María López. Licenciado, University of Buenos Aires (Argentina). PhD University of Illinois at Urbana-Champaign, July 1994. Formerly a Wolfson Research Fellow at the Department of Physics at Oxford University, Oxford, England, Dr. López was a member of CONICET (Argentina) at the Instituto de Física Balseiro in S. C. de Bariloche, Río Negro, Argentina. She is member of the staff at the London School of Economics, London (UK).
10. Dr. Antonio Helio Castro Neto. BS, Universidad de Campinas, Brazil. PhD University of Illinois at Urbana-Champaign, July 1994. Dr. Castro Neto was a Professor of Physics at Boston University, Boston MA (USA). He is a Distinguished Professor at the Department of Physics of the Faculty of Science of the National University of Singapore, Singapore, where he is also the Director of the Graphene Research Centre.
11. Dr. Manuel A. Fuentes. Licenciado, University of Buenos Aires (Argentina). PhD University of Illinois at Urbana-Champaign, July 1995. Dr. Fuentes was an Instructor at Oxford Brookes University, Oxford UK and a consultant on renewable energies with ITPower, London, United Kingdom. Dr. Fuentes is currently the director of the International Urban Cooperation Program for Latin America and the Caribbean, a European Union Program based in Brasilia (Brazil).
12. Dr. Carlos Cassanella. Licenciado, University of Buenos Aires (Argentina). PhD University of Illinois at Urbana-Champaign, September 1996. PDRA at the University of Köln (Germany), at the Sloan Center for Theoretical Neurobiology of the University of California San Francisco, and at the Department of Physics of the University of California Berkeley. Dr. Cassanella was a Postdoctoral Research Fellow at the Center for Neurobiology and Behavior of Columbia University of California, New York City. He was a Postdoctoral Fellow at the Department of Psychology of the Australia National University, Canberra (Australia). He is currently a Scientist at the Bernstein Center for Computational Neuroscience (Berlin, Germany).
13. Dr. Nancy P. Sandler. Licenciado, University of Buenos Aires (Argentina). PhD University of Illinois at Urbana-Champaign, August 1998. Dr. Sandler is currently a Professor of Physics (with tenure) at the University of Ohio, Athens OH, USA.
14. Dr. Eun-Ah Kim. BS, National Seoul University (Korea). PhD University of Illinois at Urbana-Champaign, August 2005. Dr. Kim was a postdoctoral research associate at the Department of Physics of Stanford University, Stanford CA, from August 2005 till August 2008. She is currently a Professor of Physics at the Department of Physics of Cornell University, Ithaca NY, USA.

15. Dr. Michael J. Lawler. BS, Queens University, Canada. PhD University of Illinois at Urbana-Champaign, August 2006. Dr. Lawler was a postdoctoral research associate at the Department of Physics of the University of Toronto, Toronto, Ontario, Canada, from August 2006 till August 2008. He is currently an Associate Professor of Physics at Binghamton University, Binghamton, NY, USA.
16. Dr. Stefanos Papanikolaou. BS, University of Athens (Greece). PhD University of Illinois at Urbana-Champaign, August 2008. Dr. Papanikolaou was a postdoctoral research associate at the Department of Physics of Cornell University, Ithaca NY (2008-2011). He was a Research Scientist at the Department of Materials Science, Yale University, New Haven CT (USA) (Fall 2011- Summer 2014), and an Assistant Research Professor at the Whiting School of Engineering of Johns Hopkins University (Baltimore, MD) (2015-2016). He was an Assistant Professor at the Department of Mechanical Engineering of West Virginia University (Morgantown, West Virginia). Dr. Papanikolaou is currently Group Leader at NOMATEN, Center of Excellence in Multifunctional Materials for Industrial and Medical Applications (Otwock -Swieck, Poland).
17. Dr. Kai Sun. BS, Beijing University (China). PhD University of Illinois at Urbana-Champaign, May 2009. Postdoctoral Fellow at the Joint Quantum Institute of the Department of Physics of the University of Maryland, College Park, MD, USA, 2009-2012. Dr. Kai Sun is an Associate Professor of Physics at the Department of Physics of the University of Michigan since the Fall of 2012.
18. Dr. Benjamín Muñoz Fregoso. BS, University of Monterrey (Mexico). PhD University of Illinois at Urbana-Champaign, May 2010. Dr. Fregoso was a postdoctoral research associate at the Department of Physics of the University of Chicago, Chicago IL, USA (2010-2011). He was a postdoctoral research associate at the Department of Physics of the University of Maryland, College Park MD (USA) (2011-2014) and a Postdoctoral Research Associate at the Department of Physics of the University of California Berkeley, Berkeley (CA). He is currently an Assistant Professor of Physics at Kent State University (Kent, Ohio).
19. Dr. Benjamin Hsu. BS Cornell University. PhD University of Illinois at Urbana-Champaign, August 2011. Since the Fall 2011 till the Fall of 2013 Dr. Hsu was a Postdoctoral Research Associate at the Department of Physics of Princeton University, Princeton NJ (USA). He is currently a member of the technical staff at Amazon Web Services Inc. (Seattle, Washington).
20. Dr. Akbar Jaefari. BS Sharif University (Iran). PhD University of Illinois at Urbana-Champaign, August 2012. Dr. Jaefari was a Postdoctoral research Associate at the Department of Physics of the University of Oklahoma, Norman, OK (USA). He is currently an Associate Professor of Physics at the University of Western New England (Springfield, Massachusetts).
21. Dr. Rodrigo Andrés Soto Garrido. Licenciado en Física, Universidad Federico Santa María (Valparaíso, Chile). Dr. Soto Garrido graduated in the Summer 2015. He is currently an Assistant Professor of Physics at the Universidad Católica in Santiago de Chile (Chile).
22. Dr. Xiao Chen. B. S. Tsinghua University (Beijing, China). Dr. Chen graduated in the Summer of 2016. He was a Gordon and Betty Moore Foundation Postdoctoral Scholar at the Kavli Institute for Theoretical Physics of the University of California, Santa Barbara (California) (2016-2019) and a postdoctoral scholar at the Department of Physics and Center for Theory of Quantum Matter of the University of Colorado (Boulder, Colorado). Since January 2020 he is an Assistant Professor of Physics at Boston College (Boston, Massachusetts).
23. Dr. Krishna Kumar. B.S. University of Texas at Austin (Austin, Texas). He graduated in the Summer 2016. He is currently a member of the staff of Akuna Capital (Chicago, Illinois).
24. Dr. Wathid Assawasunthonnet. B.S. Massachusetts Institute of Technology (Cambridge, Massachusetts). He graduated in the Summer 2016. He is currently a member of the staff of Kite.inc (San Francisco, California).
25. Dr. Yizhi You. B.S. Tsinghua University (Beijing, China). She graduated in May 2017. She was a postdoctoral Fellow at the Princeton Center for Theoretical Science (Princeton University, New Jersey) since September 1, 2017 and a Marie Curie Postdoctoral Fellow at the Rudolph Centre for Theoretical Physics of Oxford University (Oxford, UK). Since the fall 2022 she is an Assistant Professor of Physics at Northeastern University (Boston, Massachusetts).
26. Dr. Hart Goldman. B.S. Stanford University (Stanford, California). He graduated in May 2020. Since August 15, 2020, till August 2023 he was a Gordon and Betty Moore Postdoctoral Scholar at the Massachusetts Institute of Technology (Cambridge, Massachusetts). He is currently a postdoctoral fellow at the Kadanoff Center for Theoretical Physics, University of Chicago (Chicago, Illinois).
27. Dr. Ramanjit Sohal. BS University of Toronto (Toronto, Ontario, Canada). He graduated in May 2021. He is currently a postdoctoral fellow at Princeton University.

MASTER STUDENTS:

1. Dr. Leticia Cugliandolo, MSc Universidad de La Plata (La Plata, Argentina) July 1989. Dr. Cugliandolo went on to earn her PhD in 1992 at the Universidad de La Plata, and is currently a Professor of Physics at the Université Pierre et Marie Curie - Paris VI, in Paris, France. She is a junior member of the Institute Universitaire de France (IUF) and the Director of the Les Houches School of Physics.

POSTDOCTORAL RESEARCH ASSOCIATES:

1. Dr. Wu-Pei Su (1983-1985), PhD University of Pennsylvania (1983). Dr. Su is now Professor of Physics at the University of Houston, Houston TX (USA).
2. Dr. Elbio Dagotto (1985-1988), PhD Instituto Balseiro, Argentina (1984). Dr. Dagotto is now a Professor of Physics at the University of Tennessee, Knoxville TN (USA), and a Group Leader at Oak Ridge National Laboratory.
3. Dr. Qian Niu (1984-1985), PhD University of Washington (1984). Dr. Niu is now Professor of Physics at the University of Texas at Austin, Austin TX (USA).
4. Dr. Adriana Moreo (1985-1988), PhD Instituto Balseiro, Argentina (1985). Dr. Moreo is now a Professor of Physics at the University of Tennessee, Knoxville TN (USA), and a member of the research staff, Materials Theory Group, of Oak Ridge National Laboratory.
5. Dr. Scott Renn (1987-1988), PhD University of Pennsylvania (1987). Dr. Renn was an Assistant Professor of Physics at the University of California at San Diego, La Jolla CA (USA). He is now working in the private sector.
6. Dr. Shoudan Liang (1988-1990). PhD University of Chicago, Chicago IL (1985). Dr. Liang was an Assistant Professor of Physics at Penn State University. He is now a Professor at the Department of Biostatistics and Applied Mathematics of The University of Texas M.D. Anderson Cancer Center, Houston TX (USA).
7. Dr. Enrique Moreno (1988-1990), PhD Universidad de La Plata, Argentina (1987). Dr. Moreno is now a Lecturer at the Physics Department of Northeastern University, Boston MA (USA).
8. Dr. Vadim Kalmeyer (1989-1990), PhD Stanford University (1989). Dr. Kalmeyer was a postdoctoral associate at IBM Almaden, San Jose CA (USA). He is currently at Agilent Technologies, Santa Clara, CA.
9. Dr. Lev Ioffe (1989-1990), PhD Landau Institute for Theoretical Physics, USSR (1988). Dr. Ioffe was a Professor of Physics at Rutgers University, New Brunswick NJ (USA) and Directeur de Recherche at the Laboratory of Theoretical and High Energy Physics (LPTHE) of the University of Paris Pierre et Marie Curie, Paris (France), and a Professor of Physics at the University of Wisconsin-Madison. He is currently at Google. Inc. (Venice, CA).
10. Dr. Andrey V. Chubukov (1990-1992), PhD Moscow State University, USSR (1985). Dr. Chubukov was a Professor of Physics at the University of Maryland (College Park, MD) and at the University of Wisconsin, Madison. He is currently on the faculty of the Department of Physics and Astronomy of the University of Minnesota (Minneapolis, MN) and a member of the W. Fine Theoretical Physics Institute.
11. Dr. Eduardo R. Gagliano (1989-1992), PhD Instituto Balseiro, Argentina (1987). Dr. Gagliano was on the faculty of Instituto de Física Balseiro, Bariloche, Argentina. Dr. Gagliano passed away in 1998.
12. Dr. Silvia Bacci (1989-1992), PhD Instituto Balseiro, Argentina (1989). Dr. Bacci is now at Instituto de Física Balseiro, Bariloche, Argentina.
13. Dr. Shivaji Sondhi (1992-1995), PhD UCLA (1992). Dr. Sondhi was a Professor of Physics at Princeton University, Princeton NJ (USA). Since the fall 2022 he is the Wykeham Professor of Physics in the Rudolf Peierls Centre for Theoretical Physics at the University of Oxford (Oxford, UK).
14. Dr. Claudio C. Chamon (1995-1997), PhD MIT (1995). He is a Professor of Physics at Boston University, Boston MA (USA).
15. Dr. José María Román Faúndez (1998-2002), PhD Universitat de Barcelona, Spain. PDRA at Universidade de Évora (Évora, Portugal) and at the Institute for Theoretical Physics, Consejo Superior de Investigación Científica, Madrid, Spain; now Chief Scientist, Service for Photovoltaic Systems, National Center for Renewable Energies (CENER), Navarra, Spain.
16. Dr. Daniel G. Barci (1999-2001), PhD Universidad de La Plata, Argentina (1995). He is now a Professor of Physics of the Departamento de Física, Universidad Estadual de Rio de Janeiro, RJ Brazil.

17. Dr. Wengsheng Vincent Liu (1999-2001), PhD University of Texas at Austin (1999). He was a Postdoctoral Research Associate at the Massachusetts Institute of Technology. He is now a Professor of Physics at the University of Pittsburgh, Pittsburgh PA (USA).
18. Dr. Victoria Fernández, (PDRA 2003-2005) member of the faculty of the Department of Physics, University of La Plata, Argentina, and scientist at the National Research and Technology council (CONICET) of Argentina.
19. Dr. Eddy Ardonne (2002-2005), PhD University of Amsterdam (2002). He was a postdoctoral research associate at the Quantum Information Institute of Caltech and at Station Q of Microsoft Corporation, University of California Santa Barbara (2005-2007) and an Assistant Professor of Physics at Nordita (Stockholm, Sweden). He is currently a Professor of Physics at the Department of Physics of Stockholm University, Stockholm (Sweden).
20. Dr. Kumar S. Raman (2005-2007), PhD Princeton University (2005). Dr. Raman was a postdoctoral research associate at the Department of Physics of the University of California, Riverside, CA (USA). He is currently a member of the technical staff of Lawrence Livermore National Laboratory.
21. Dr. Bruno Uchoa (2008-2010), PhD University of Campinas, Sao Paulo, Brazil (2002). Dr. Uchoa is now an Associate Professor of Physics at the Department of Physics of the University of Oklahoma (since the Fall 2011).
22. Dr. Eytan Grosfeld (2008-2011), PhD Weizmann Institute of Science, Israel (2008). Dr. Grosfeld is a Professor of Physics of the Department of Physics of Ben Gurion University, Israel.
23. Dr. Taylor Hughes (2009-2011), PhD Stanford University, Stanford, CA (USA) (2009). Dr. Hughes is a Professor of Physics of the Department of Physics of the University of Illinois at Urbana-Champaign.
24. Dr. Chin Yan Jeffrey Teo (2011-2014), PhD University of Pennsylvania (2011). Dr. Teo is an Associate Professor of Physics at the University of Virginia (Charlottesville, VA) since in the Fall 2014.
25. Dr. Pouyan Ghaemi (2011-2014), PhD Massachusetts Institute of Technology (2009). Dr. Ghaemi was a postdoctoral research associate at the Department of Physics of the University of California, Berkeley, CA (USA) (2009-2011). Dr. Ghaemi is an Associate Professor of Physics at the City College of New York (New York City, NY).
26. Dr. Rudro Rana Biswas (2011- 2014), PhD Harvard University(2011). Dr. Biswas is an Assistant Professor of Physics at Purdue University (West Lafayette, Indiana).
27. Dr. Gil Young Cho (2013 - 2015), PhD University of California Berkeley (2013). He was a Postdoctoral Research Associate (and military service) at the Korea Advanced Institute of Science and Technology (KAIST) (Daejeon, South Korea). He is currently on the faculty of the Pohang University of Science and Technology (POSTECH), Pohang (South Korea).
28. Dr. Victor Kooi Ming Chua (2013-2016), PhD University of Texas, Austin (2013). Since September 2017 Dr. Chua is the private sector in Switzerland.
29. Dr. David J. Luitz (2015-2016), PhD Universität Würzburg (Germany, 2013). Dr. Luitz was a Postdoctoral Research Associate at the Department of Physics of the Technische Universität Munich (Germany) (2017). Since January 2018 he is the Research Group Leader of the group “Computational Quantum Many-Body Physics” at the Max Planck Institute for the Physics of Complex Systems (Dresden, Germany).
30. Dr. Peng Ye (2015-2018), PhD Tsinghua University, China (2012). Dr. Ye is a Professor of Physics at Sun Yat-Sen University (Guangzhou, People’s Republic of China) since August 2018.
31. Dr. Yuxuan Wang (2015-2018), PhD University of Wisconsin-Madison (2015). Dr. Wang is an Assistant Professor of Physics at the University of Florida (Gainesville, Florida) since August 2018.
32. Dr. Luiz Santos (2015-2018), PhD Harvard University (2012). Dr. Santos is an Assistant Professor of Physics at Emory University (Atlanta, Georgia) since August 2018.
33. Dr. Eugeniu Plamadeala (Fall 2016- Fall 2018), PhD University of California Santa Barbara (2016). He was a researcher at the Quantum Computing Researcher at the NASA Ames Research Center (Mountain View, California). He is currently an Applied Scientist at Amazon Web Services.
34. Dr. Aris Alexandradinata (since August 2018), PhD Princeton University (2015). He joined my group as a Gordon and Betty Moore Postdoctoral Scholar in the Fall 2019. Since the Fall 2022 he is an Assistant Professor of Physics at the University of California Santa Cruz (Santa Cruz, California).
35. Dr. Edwin Huang, PhD Stanford University (2019). He joined my group as a Gordon and Betty Moore Postdoctoral Scholar in the Fall 2019. Since August 2023 he is an Assistant Professor of Physics at the University of Notre dame (South Bend, Indiana),
36. Dr. Laimei Nie, PhD Stanford (2017). He joined my group as a postdoc in the Fall 2020. Since January 2023 she is an Assistant Professor of Physics at Purdue University (West Lafayette, Indiana).

37. Dr. Xiaoqi Sun, PhD Stanford (2021). He joined my group as a Gordon and Betty Moore Postdoctoral Scholar from the Fall 2021 to the Fall 2023. He is currently a postdoctoral fellow at the Max Planck Institute for Quantum Optics in Garching (Germany).

Grants: I have been supported by the National Science Foundation since 1982 through a variety of grants, by the Basic Energy Sciences division of the US Department of Energy, by the Simons Foundation, and by the Gordon and Betty Moore Foundation.

Member of the Board of Scientific Directors the Journal of Statistical Mechanics: Theory and Experiment.

Member of the Board of Editors of the Annual Review of Condensed Matter Physics.

Member of the Scientific Advisory Committee of the Institute for Theoretical Physics of the Faculty of Science of the University of Amsterdam (ITFA), The Netherlands.

Member of the International Board of the International Center for Advanced Studies (Universidad Nacional de San Martín, Argentina).

Member of the Scientific Council of the South American Institute for Fundamental Research (ICTP-SAIFR), Sao Paulo (Brazil), since Fall 2017.

Chair, External Review Committee, Department of Physics & Astronomy, University of Kentucky, Lexington (Kentucky), February 2014.

Member of the External Review Committee, Department of Physics, Washington University in St. Louis, St. Louis (Missouri), September 2017.

Organizer of the University of Chicago/University of Illinois, Joint Physics Meeting (1981-1989, 2015, 2016).

Co-organizer of the Nobel Symposium *New forms of matter: topological insulators and superconductors*, Lidingö (Sweden), June 2014.

Member of the International Advisory Board of the 27th International Conference in Low Temperature Physics (LT27), Buenos Aires (Argentina), August 2014.

Member of the International Advisory Board of the 27th International Conference on Statistical Physics (StatPhys27) to be held in Buenos Aires (Argentina), July 2019.

Member of the Advisory Board of the International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductor (M2S 2018) to be held in Beijing (People's republic of China), August 20-24, 2018.

Co-organizer of the Workshop *Field Theoretic Computer Simulations for Particle Physics and Condensed Matter*, Boston University (Boston, MA), May 2014.

Co-organizer of the workshop *Geometrical Degrees of Freedom in Topological Phases*, Banff International Research Station, Banff August 2016 (Alberta, Canada).

Member and Chair of the 2012 and 2018 Bardeen Prize Committee.

Member of the 2011, 2012 and 2019 Onsager Prize Committee of the American Physical Society.

Referee for Physical Review Letters, Physical Review B, Reviews of Modern Physics, Europhysics Letters, Nature, Science, Nuclear Physics B, Annals of Physics, American Journal of Physics, Journal of Mathematical Physics, Princeton University Press, and Cambridge University Press.

Referee for the US National Science Foundation, the US Department of Energy, FOM (the National Science Foundation of The Netherlands), the US-Israel Binational Science Foundation, The John Simon Guggenheim Memorial Fellowship

Foundation, the Sloan Foundation (USA), Agencia Nacional de Promoción Científica y Tecnológica (Argentina), the Research Corporation, the National Science and Engineering Research Council of Canada, Ministerio de Ciencia y Tecnología (España), Fundación Nacional de Ciencia y Tecnología (Chile), Consejo Nacional de Ciencia y Técnica (Argentina), and the Centre for the Advanced Study of the University of Oslo (Norway).