Biographical information

Morten Hjorth-Jensen[1,2]

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Department of Physics and Astronomy and Facility for Rare Ion Beams/National Superconducting Cyclotron Laboratory, Michigan State University, US

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Professional preparation, education and personal data:

- Professor of Physics at Michigan State University, USA and the University of Oslo, Norway
- Norwegian citizen, born in Haugesund, Norway, permanent resident of the USA
- Norwegian University of Science and Technology, Trondheim, Norway, Siv.Ing. in Theoretical Physics (Master of Science equivalent), 1988
- University of Oslo, Norway, Ph.D in Theoretical Nuclear Physics, 1993
- ECT*, Trento, Italy, Postdoctoral Researcher in Theoretical Nuclear Physics, 1994-1996
- Nordita, Copenhagen, Denmark, Postdoctoral Researcher in Theoretical Nuclear Physics, 1996-1998

Appointments:

1. Associate Professor of Physics, University of Oslo, 1999-2001;
2. Professor of Physics, University of Oslo,2001-present;
3. Adjunct Professor of Physics, Michigan State University, 2003-2011;
4. Professor of Physics, Michigan State University,2012-present;

Brief research overview

I am a theoretical physicist with a strong interest in computational physics, computational science and many-body theory in general, and the nuclear many-body problem and nuclear structure problems in particular. This means that I study various methods for solving either Schrödinger's equation or Dirac's equation for many interacting particles, spanning from algorithmic aspects to the mathematical properties of such methods, including machine learning and quantum computing.

Awards:

1. University of Oslo award for excellence in teaching, 2000 (250kNOK)
2. Fellow of the American Physical Society, 2007
3. Oak Ridge National Laboratory excellence in research award, 2008
4. Outstanding referee award of the American Physical Society, 2008
5. University of Oslo award for excellence in teaching for the **Computing in Science Education** project, 2011 (250kNOK)
6. NOKUT (Norwegian entity of quality assessment in higher education) award for excellence in teaching for the **Computing in Science Education** project, 2012
7. Elected member of the Norwegian Academy of Sciences and Letters, 2013
8. Elected member of the Royal Norwegian Society of Sciences and Letters, 2015
9. University of Oslo award for excellence in teaching for developing the Computational Physics group, 2015 (250kNOK)
10. Favorite graduate teacher at the Department of Physics and Astronomy at Michigan State University, 2016
11. **Olav Thon Foundation** National prize for excellence in teaching award (National, all Norwegian higher education institutions, 500kNOK), 2018
12. Thomas H. Osgood Faculty Teaching award at Michigan State University, 2018
13. University of Oslo merited teacher award 2020
14. College of Natural Science Norman L and Olga K. Fritz Excellence in Teaching Award, Michigan State University, 2021

Citation metrics, highly cited articles, and additional research highlights:

1. Web of Science and Google Scholar.
2. **Realistic effective interactions for nuclear systems**, M Hjorth-Jensen, TTS Kuo, E Osnes, Physics Reports 261, 125-270 (1995).
3. **Phases of dense matter in neutron stars**, H Heiselberg, M Hjorth-Jensen, Physics Reports 328, 237-327 (2000).
4. **Pairing in nuclear systems: from neutron stars to finite nuclei**, DJ Dean, M Hjorth-Jensen, Reviews of Modern Physics 75, 607 (2003).
5. A total of more than 150 peer reviewed articles and three books.
6. Authored and co-authored 23 Physical Review Letters articles, 17 Rapid communications in Physical Review C, seven Physics Letters B articles, one Astrophysical Journal Letters article and one Nature Physics article
7. Written two Physics viewpoints and been highlighted in one other.
8. Taught and developed several courses in Computational Physics and many-body physics, courses in nuclears structure and quantum physics and mechanics and statistical mechanics.
9. More than two hundred invited talks, seminars, colloquia and lectures given worldwide.
10. Organized more than 30 conferences, workshops and schools and advanced courses.
11. Supervised and co-supervised more than 100 graduate students (Master of Science and PhD) and post-doctoral fellows
12. Presently supervising and co-supervising eleven Master of Science students (University of Oslo) and five PhD students at MSU and three PhD students at the University of Oslo.

Synergistic Activities and service through the years:

- Since 1999 I have established an activity in computational physics at the Department of Physics at the University of Oslo. I have also started from scratch and developed several courses on computational physics and computational science and many-body physics. This activity was recognized with the Excellence in Teaching award from the University of Oslo in 2015. During the last 20 years I have guided more than 100 gradute students (at the Master of Science and PhD levels) and post-doctoral fellows at Michigan State University and the University of Oslo.

- With colleagues at the University of Oslo, I have been strongly involved in the development of a totally new teaching philosophy which merges computations with the traditional science and mathematics curriculum . This project is called Computing in Science Education and has received considerable support from the University of Oslo and the Norwegian Ministry of research and education. It received the University of Oslo award for excellence in teaching in 2011 and the NOKUT award in 2012.

- With colleagues from the USA and other European countries, we started in 2010 the Nuclear Talent initiative, where we aim at providing an advanced and comprehensive training to graduate students and young researchers in low-energy nuclear theory. The network aims at developing a broad curriculum that will provide the platform for a cutting-edge theory for understanding nuclei and nuclear reactions.

- I initiated and lead the new Master of Science program on Computational Science at the University of Oslo. This is a new and multi-disciplinary program across several disciplines at the College of Natural Science of the University of Oslo. It includes now seven departments at the faculty of Mathematics and Natural Sciences of the University of Oslo.

Editorial boards and committees.

- Board member of the European Center for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italy, 2017-present

- Member of the Physics Advisory Comittee at the National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing, USA, 2003-2008

- Member of the Canadian research council's evaluation board on subatomic physics 2012-2015.

- Member of the Swedish research council's evaluation board on subatomic physics 2007-2008.

- Editorial Board member of Physical Review C, 2014-2016

- Editorial Board member of European Physical Journal A, 2010-2016

- Editorial Board member of European Physical Journal Special Topics, 2010-present

- Editorial Board member of Springer's Lecture Notes in Physics, 2010-present

- Editorial Board member of Springer's Undergraduate Lecture Notes in Physics, 2014-present

- Editorial Board member of Springer's University Texts in Physics, 2015-present
- Editorial Board member of Springer's Undergraduate Texts in Physics, 2016-present
- Editorial Board member of Springer's Graduate Texts in Physics, 2018-present
- Editorial Board member of Computers in Science and Discovery journal, a journal by IOP, UK, 2008-2014
- Steering Committee member of the FRIB theory alliance at Michigan State University 2013-2016
- Initiated and led the Nuclear Talent initiative from 2010 till 2015, member of the Steering committee till end of 2019.
- Member of the Board of Usit at UiO (Center for information technology at the University of Oslo), 2002-2004
- Project leader for High-performance computing courses at UiO, 2000-2003
- Board member of the Bachelor program Mathematics, Information theory and Technology at the University of Oslo, 2002-2008
- Leader of the Bachelor program Physics, Astronomy and Meteorology at the University of Oslo, 2002-2011
- Together with colleagues from the Department of Physics, Department of Mathematics and Department of Informatics at the University of Oslo, we started the Computers in Science Education project in 2004. This project, which we conceived back in 2003, has changed totally changed the way Science is taught.
- Member of the OECD working group on nuclear physics 2006-2008
- January 2009-December 2011, leader of the Nuclear Physics group at the University of Oslo
- Leader the new Master of Science program on Computational Science at the University of Oslo. This is a new and multi-disciplinary program across several disciplines at the College of Natural Science of the University of Oslo.

Referee for International Journals.

- Referee for Reviews of Modern Physics
- Referee for Physical Review Letters
- Referee for Nature
- Referee for Physical Review **C**
- Referee for Physical Review **D**
- Referee for Nuclear Physics **A**
- Referee for Physics Letters **B**
- Referee for Astrophysical Journal
- Referee for Journal of Chemical Physics
- Referee for Journal of Physics **A**: Mathematical Physics
- Referee for Journal of Physics **G**: Nuclear and Particle Physics
- Referee for European Journal of Physics **A**
- Referee for European Physics Letters
- Referee for Few Body Systems
- Referee for Modern Journal of Physics E
- Referee for Physica Scripta
- Referee for Annals of Physics
- Referee for SIAM
- Referee for Computer Physics Communications
- Referee for Computers in Science and Discovery
- Referee for Journal of Mathematics Physics
- Referee for Progress in Theoretical Physics
- Referee for Polish Journal of Physics

Other Referee Activities.

- Referee for the Canadian Research Council
- Referee for the Israeli Research Council
- Referee for the South African Research Council
- Referee for the British Research Council
- Referee for the German Research Council
- Referee for the American Department of Energy (DOE)
- Referee for the American National Science Foundation (NSF)
- Referee for INFN, Istituto Nazionale di Fisica Nucleare, Italy
- Referee for ESF, European Science Foundation
- Referee for Vetenskapsrådet, the Swedish Research Council
- Referee for the Danish Resource Council
- Referee for the Serbian Research Ministry
- Referee for the Russian Research Council
- Referee for the Research Council of Luxembourg
- Opponent at several PhD dissertations.
- Member of several PhD guidance committees at Michigan State University
- Several expert evaluations on promotion applications.
- Member or leader of several job assessment committees in Norway and the USA

Member of International Advisory committees.

1. 22nd International Few-Body Conference, member of IAC 2018
2. International Nuclear Physics Conference, member of IAC since 2008
3. Nuclear Structure 2010 and 2014, member of IAC
4. Program Advisor Committee for Recent Progress in Many-Body Theories, member since 2007
5. Scientific advisory committee for Nuclear Theory in the Supercomputing Era

6. International Advisory committee of International Conference on Mathematical Modeling in Physical Sciences
7. International Advisory committee for XI Latin American Symposium on Nuclear Physics and Applications
8. International Advisory Board for Conference on Computational Physics
9. International Advisory committee for EURORIB15 and EURORIB18
10. International Advisory committee for SIAM conference on Computational Science and Engineering in Boston, 2013

Member of Graduate Advisory Committees at Michigan State University. I am (have been) member or chair person of the following graduate student committees at Michigan State University:

1. Justin Lietz, chair, defended thesis June 2019.
2. Fei Yuan, chair. Defended thesis January 24 2018.
3. Sam Novario, chair. Defends thesis February 7 2018.
4. John Bower, chair together with Scott Bogner. Master of Science thesis May 2017.
5. Adam Jones, committee member. Master of Science thesis July 2017.
6. Chris Sullivan, committee member. Defended thesis January 2018.
7. Thomas Redpath, committee member. Defended thesis October 2019.
8. Sean Sweany, committee member, defends thesis fall 2020.
9. Rachel Taverner, committee member. Defended thesis May 2019.
10. Nathan Parzuchowski, committee member. Defended thesis April 2017.
11. Titus Morris, committee member. Defended thesis May 2016
12. Kenneth Whitmore, committee member. Defended thesis June 2016
13. Alex Dombos, committee member. Defended thesis May 2018.
14. Josh Bradt, committee member, Defended thesis July 2017.
15. Charles Loelius, committee member, Defended thesis May 2017.
16. Safwan Shanab, committee member. Defended thesis January 2020.
17. Hao Lin, committee member. Defended thesis July 2020.
18. Mao Xingze, committee member. Defended thesis July 2020.

19. Amy Lovell, committee member. Defended thesis January 24 2018.
20. Debra Richman, committee member, defends thesis December 2020.
21. Roy Ready, committee member. Defended thesis May 2021.
22. Nathan Watwood, committee member. Defended thesis February 2021.
23. Ben Hall, chair, thesis defense planned 2022
24. Udiani Omokuyani, committee member
25. Jane Kim, chair, thesis defense planned 2023
26. Khan Zhu, committee member.
27. Byeon Heejun, committee member. Defended thesis December 2020.
28. Golubev Timofey, committee member. Defended thesis December 2020.
29. Hermansen, Kirby, committee member
30. Watkins Jacob, , committee member
31. Hill Matthew Steven, committee member

Courses, study programs and educational initiatives

I am strongly involved in teaching at all levels. I have been heading the bachelor program Physics, Astronomy and Meteorology (FAM) in the period 2002-2011. I am also strongly involved in the project Computing in Science Education. Furthermore, with European and American colleagues, we have established the recent successful Nuclear Talent initiative.

Since 1999 I have established an activity in computational physics at the Department of Physics at the University of Oslo. I have also started from scratch and developed several courses on computational physics, machine learning and many-body physics. This activity was recognized with the Excellence in Teaching award from the University of Oslo in 2015. During the last twenty years I have guided more than 100 graduate students (Master of Science and PhD levels) and post-doctoral fellows.

With colleagues at the University of Oslo, I have been strongly involved in the development of a totally new teaching philosophy which merges computation with the traditional science amd mathematics curriculum . This project is called Computing in Science Education and has received considerable support from the University of Oslo and the Norwegian Ministry of research and education. It received the University of Oslo award for excellence in teaching in 2011 and the NOKUT award in 2012.

With colleagues from the USA and other European countries, we started in 2010 the Nuclear Talent initiate":"http://www.nucleartalent.org", where we aim

at providing an advanced and comprehensive training to graduate students and young researchers in low-energy nuclear theory. The network aims at developing a broad curriculum that will provide the platform for a cutting-edge theory for understanding nuclei and nuclear reactions. Over the years I have taught and organized several such intensive courses (see list below).

I initiated in 2015 and chair the new Master of Science program on Computational Science at the University of Oslo. This is a new and multi-disciplinary program across several disciplines at the College of Natural Science of the University of Oslo.

I teach or have taught recently the following courses at the University of Oslo and Michigan State University:

- FYS3150/4150 Computational Physics I, Fall semester, senior undergraduate level (Oslo)
- FYS4411 Computational Physics II: Quantum mechanical systems, graduate level, Spring semester (Oslo)
- FYS-KJM4480 Quantum mechanics for many-particle systems, graduate level, Fall semester (Oslo)
- PHY981 Nuclear Structure, graduate level, Spring semester (MSU)
- PHY480/905 Computational Physics (MSU), undergraduate and graduate level, Spring semester

From the fall of 2018 I have developed and teach the new course on **Applied Data analysis and Machine Learning** at the University of Oslo. This course is a compulsory course that is part of the new interdisciplinary Master of Science program Computational Science. The link to the course is

- FYS-MAT3155/4155 Data Analysis and Machine Learning, senior undergraduate and graduate level, Fall semester (Oslo)
- PHY321 Classical Mechanics, MSU, undergraduate course, spring semester. First time spring 2020.

I have also taught introductory quantum physics, FYS2140, 2000-2004, Statistical Mechanics, FYS4130, 1990-1994 and I have developed an advanced course on FYS-KJM4480 Quantum mechanics for many-particle systems, 2009-2014, all at the at the University of Oslo, Norway. At Michigan I have also taught an advanced course in Nuclear Structure Physics PHYS981 Nuclear Structure, graduate level, Spring semester, 2013-2016. In addition, with Scott Bogner at Michigan State University, we taught a specialized course on Nuclear Force, PHY989, during the fall semester of 2018.

Teaching Awards:

1. University of Oslo award for excellence in teaching, 2000 (250kNOK)
2. University of Oslo award for excellence in teaching for the **Computing in Science Education** project, 2011 (250kNOK)
3. NOKUT (Norwegian entity of quality assessment in higher education) award for excellence in teaching for the **Computing in Science Education** project, 2012
4. University of Oslo award for excellence in teaching for developing the Computational Physics group, 2015 (250kNOK)
5. Favorite graduate teacher at the Department of Physics and Astronomy at Michigan State University, 2016
6. **Olav Thon Foundation** National prize for excellence in teaching award (National, all Norwegian higher education institutions, 500kNOK), 2018
7. Thomas H. Osgood Faculty Teaching award at Michigan State University, 2018
8. University of Oslo merited teacher award 2020

Present PhD students.

1. Benjamin Hall, Michigan State University, started 2018. Research topic: Quantum Computing and the Nuclear Many-body problem
2. Jane Kim, Michigan State University, started 2018. Research topic: Machine Learning and the Nuclear Many-body problem
3. Julie Butler, Michigan State University, started 2018. Research topic: Machine Learning and the Nuclear Many-body problem
4. Øyvind Sigmundsson Schøyen, University of Oslo, started 2019. Research topic: Time-dependent many-body theory and quantum computing
5. Stian Bilek, University of Oslo, started 2020, defends thesis September 2024. Quantum Computing and Machine Learning
6. Jonas Boym Flaten, University of Oslo, started 2020, defends thesis December 2024. Quantum Many-Body theories
7. Omokuyani C. Udiani , Michigan State University, started 2017, co-supervisor. Research topic: Nuclear Many-body theory
8. Danny Jammoa, Michigan State University, started 2020, co-supervisor. Research topic: Quantum Computing and Machine Learning

9. Paulina Souza Tedesco, University of Oslo, started 2020, defends thesis fall 2023, Machine Learning and Meteorology, co-supervisor

10. Katarzyna Michałowska, University of Oslo, started 2020, defends thesis fall 2023, Machine Learning, co-supervisor

11. Einar Aurbakken, University of Oslo, started 2020, defends thesis fall 2024, Quantum Chemistry and Many-body Physics, co-supervisor

Present Master of Science Students.

1. Eina Jørgensen, University of Oslo, (2019-2021), co-supervisor

2. Morten Hemmingsen, University of Oslo, (2019-2021), co-supervisor

3. Huying Zhang, University of Oslo, (2019-2021), co-supervisor

4. Jens Due Bratten, University of Oslo, (2019-2021), co-supervisor

5. Gabriel Cabrera, University of Oslo, (2019-2021), co-supervisor

6. Kristian Wold, University of Oslo, (2019-2021)

7. Martin Krokan Hovden, University of Oslo, (2019-2021)

8. Johan Nereng, University of Oslo, (2019-2021)

9. Oliver Hebnes, University of Oslo, (2019-2021), co-supervisor

10. Mohamad Ismail, University of Oslo, (2019-2021), co-supervisor

11. Kristoffer Langstad, University of Oslo, (2019-2021), co-supervisor

Former PhD students and their present positions.

1. John Mark Aiken, University of Oslo, started 2017, defended thesis September 2020, co-supervisor. Research Topic: Machine Learning applied to Physics Education Research. Now post-doctoral fellow at the University of Minnesota, Minneapolis.

2. Justin Lietz (PhD MSU 2019), now post-doctoral fellow at Oak Ridge National Laboratory, Computational Science Division

3. Samuel Novario (PhD MSU 2018), post-doctoral fellow at Oak Ridge National Laboratory, Physics Division, 2018-2020, now post-doctoral fellow at Los Alamos National Laboratoty

4. Fei Yuan (PhD MSU 2018), employed at Google as computational scientist

5. Gustav Baardsen (PhD UiO 2014). From 2015 to 2018, ost-doctoral researcher at the Center for Theoretical and Computational Chemistry (CTCC), University of Oslo. Now employed by Varian Medical Systems, Helsinki, Finland.

6. Simen Kvaal (PhD UiO 2009), researcher, Department of Chemistry, University of Oslo. Recipient of an ERC starting grant

7. Gustav Jansen (PhD UiO 2012), now permanent position as scientist at the Computational Science Division of Oak Ridge National Laboratory

8. Torquil MacDonald Sørensen (PhD UiO 2012), post-doctoral fellow at the Department of Mathematics, UiO

9. Jon Kerr Nilsen (PhD UiO 2010), senior engineer at the University of Oslo center for information technologies (co-supervisor)

10. Marius Lysebo (PhD UiO 2010), now Associate Professor at Oslo University College, (co-supervisor)

11. Elise Bergli (PhD UiO 2010), teacher Ås high school, Norway and Assistant Professor at the Norwegian University of Life Sciences.

12. Eirik Ovrum (PhD UiO 2007), now Associate Professor at the University College of Southeast of Norway

13. Gaute Hagen (PhD UiB and UiO 2005), now permanent position as scientist at the Physics Division of Oak Ridge National Laboratory. Recipient of the Department of Energy Early career award

14. Øystein Elgarøy (PhD UiO 1999), now professor of Theoretical Astrophysics at the University of Oslo, Norway (co-supervisor)

15. Lars Engvik (PhD UiO 1999), now Associate Professor at Sør-Trøndelag University College, Trondheim, Norway, (co-supervisor)

Post-doctoral fellows and their present positions.

1. Andreas Ekstrøm (UiO and MSU 2010-2014), now Associate Professor at Chalmers Technological University in Gothenburg, Sweden

2. Øyvind Jensen (UiO 2011), now researcher at the Institute for Energy Technology

3. Simen Kvaal (UiO 2008-2012), researcher, Department of Chemistry, University of Oslo. Recipient of an ERC starting grant

4. Elise Bergli (UiO 2010-2011), now teacher at Ås high school, Norway

5. Sølve Selstø (UiO 2008-2010), now Professor at Oslo Metropolitan University

6. Nicolas Michel (MSU 2013), now senior researcher at Langzhou Nuclear Physics Laboratory, China

Former Master of Science Students(links to their thesis will be added).

1. Heine Aabø, University of Oslo, (2018-2020)
2. Stian Bilek, University of Oslo, (2018-2020)
3. Thomas Sjåstad, University of Oslo, (2018-2020), co-supervisor
4. Eirik Thorsrud, University of Oslo, (2018-2020), co-supervisor
5. Halvard Sutterud, University of Oslo, (2018-2020)
6. Marius Holm, University of Oslo, (2018-2020), co-supervisor
7. Geir Utvik, University of Oslo, (2018-2020)
8. Markus Aspurusten, University of Oslo, (2018-2020), co-supervisor
9. Vebjørn Gilberg, University of Oslo, (2017-2020), co-supervisor
10. Kari Eriksen, University of Oslo, (2017-2020)
11. Robert Solli, University of Oslo, (2017-2019)
12. Andreas Lefdalsnes, University of Oslo, (2017-2019)
13. Joseph Knutson, University of Oslo, (2017-2019)
14. Bendik Samseth, University of Oslo, (2017-2019)
15. Even Nordhagen, University of Oslo, (2017-2019)
16. Øyvind Schøyen Sigmundson, University of Oslo, (2017-2019)
17. Sebastian Gregorius Winther-Larsen, University of Oslo, (2017-2019)
18. Giovanni Pederiva, University of Oslo, (2016-2018), co-supervisor
19. Anna Gribovskaya, University of Oslo, (2016-2018)
20. Andrei Kucharenka, University of Oslo, (2016-2018)
21. Vilde Moe Flugsrud, University of Oslo, (2016-2018)
22. Alfred Alocias Mariadason, University of Oslo, (2016-2018)
23. Marius Jonsson, University of Oslo, (2016-2018)
24. Hans Mathias Vege Mamen, University of Oslo, (2016-2019), co-supervisor
25. Alexander Fleischer, University of Oslo, (2015-2017)

26. Håkon Emil Kristiansen, University of Oslo, (2015-2017)
27. Morten Ledum, University of Oslo, (2015-2017)
28. Håkon Treider Vikør, University of Oslo, (2015-2017), co-supervisor
29. Jon-Andreas Stende, University of Oslo, (2015-2017), co-supervisor
30. Sean Bruce Sangholt Miller, University of Oslo, (2015-2017)
31. Christian Fleischer, University of Oslo, (2015-2017)
32. John Bower, Michigan State University, (2014-2017)
33. Wilhelm Holmen, University of Oslo (2014-2016)
34. Roger Kjøde, University of Oslo, (2014-2016)
35. Håkon Sebatian Mørk, University of Oslo, (2014-2016)
36. Jonas van den Brink, University of Oslo, (2014-2016), co-supervisor
37. Marte Julie Sætra, University of Oslo, (2014-2016), co-supervisor
38. Audun Skau Hansen, University of Oslo, (2013-2015)
39. Henrik Eiding, University of Oslo, (2012-2014)
40. Svenn-Arne Dragly, University of Oslo, (2012-2014)
41. Milad Hobbi Mobarhan, University of Oslo, (2012-2014)
42. Ole Tobias Norli, University of Oslo, (2012-2014)
43. Filip Sand, University of Oslo, (2012-2014), co-supervisor
44. Emilie Fjørner, University of Oslo, (2012-2014), co-supervisor
45. Jørgen Høgberget, University of Oslo, (2011-2013)
46. Sarah Reimann, University of Oslo, (2011-2013)
47. Karl Leikganger, University of Oslo, (2011-2013)
48. Sigve Bøe Skattum, University of Oslo, (2011-2013)
49. Veronica Berglyd Hansen, University of Oslo, (2010-2012)
50. Camilla Nestande Kirkemo, University of Oslo, (2010-2012), co-supervisor
51. Christoffer Hirth, University of Oslo, (2009-2011)
52. Marte Hoel Jørgensen, University of Oslo, (2009-2011)
53. Yang Min Wang, University of Oslo, (2009-2011)

54. Ivar Nikolaisen, University of Oslo, (2009-2011)
55. Vegard Amundsen, University of Oslo, (2008-2010)
56. Håvard Sandsdalen, University of Oslo, (2008-2010)
57. Lars Eivind Lervåg, University of Oslo, (2008-2010)
58. Magnus Lohne Pedersen, University of Oslo, (2008-2010)
59. Simen Sørby, University of Oslo, (2008-2010), co-supervisor
60. Sigurd Wenner, University of Oslo, (2008-2010), co-supervisor
61. Lene Norderhaug Drøsdal, University of Oslo, (2007-2009)
62. Islen Vallejo, University of Oslo, (2007-2009), works at the Norwegian Institute for Air Research
63. Jacob Kryvi, Norwegian University of Science and Technology, (2007-2009), co-supervisor
64. Rune Albrigtsen, University of Oslo, (2007-2009)
65. Johannes Rekkedal, University of Oslo, (2007-2009)
66. Patrick Merlot, University of Oslo, (2007-2009)
67. Gustav Jansen, University of Oslo, (2006-2008)
68. Ole Petter Harbitz, University of Oslo, (2006-2008)
69. Sutharsan Amurgian, University of Oslo, (2005-2007)
70. Jon Thonstad, University of Oslo, (2005-2007)
71. Espen Flage-Larsen, University of Oslo, (2003-2005)
72. Joachim Berdahl Haga, University of Oslo, (2004-2006)
73. Jon Kerr Nilsen, University of Oslo, (2002-2004)
74. Simen Kvaal, University of Oslo, (2002-2004)
75. Simen Reine Sommerfelt, University of Oslo, (2002-2004)
76. Mateuz Marek Røstad, University of Oslo, (2002-2004)
77. Victoria Popsueva, University of Oslo, (2002-2004)
78. Eivind Brodal, University of Oslo, (2001-2003)
79. Eirik Ovrum, University of Oslo, (2001-2003)
80. Ronny Kjelsberg, Norwegian University of Science and Technology, (2001-2003)

Lectures and organization of schools:

1. Morten Hjorth-Jensen, Daniel Bazin, Sean Liddick, , Michelle Kuchera, and R. Ramanujan, Online Nuclear Talent course on Machine Learning Applied to Nuclear Physics, European Center for Theoretical Nuclear Physics and Related Areas, Trento, Italy, July 19 to July 30, 2021. Main organizer and teacher.

2. Morten Hjorth-Jensen, **2021 CHPC Introductory Programming Summer School**, South Africa, February 1-28, 2021, five lectures on Machine Learning.

3. Morten Hjorth-Jensen, Nuclear Talent Course on Machine Learning in Nuclear Physics for the Erasmus+ program http://www.emm-nucphys.eu/, European Master in Nuclear Physics, University of Basse-Normandie and GANIL, January 18-29, 2021. 30 lectures and 30 exercise sessions. Main teacher

4. Morten Hjorth-Jensen, Daniel Bazin, Sean Liddick, , Michelle Kuchera, and R. Ramanujan, Online Nuclear Talent course on Machine Learning Applied to Nuclear Physics, European Center for Theoretical Nuclear Physics and Related Areas, Trento, Italy, June 22 to July 3, 2020. Main organizer and teacher.

5. Online lectures on **Machine Learning weeks at MSU-FRIB/NSCL**, May 2020. I lectured to undergraduate, graduate and post-docs at FRIB/MSU from May 18 till May 29 on Machine Learning applied to Nuclear Physics. Two lectures per day and one hour of hands-on sessions. On average between 25-30 particpants per day. All material is available at https://github.com/mhjensen/MachineLearningMSU-FRIB2020. In total I gave 20 one-hour lectures.

6. Morten Hjorth-Jensen, Nuclear Talent Course on Machine Learning in Nuclear Physics for the Erasmus+ program http://www.emm-nucphys.eu/, European Master in Nuclear Physics, University of Basse-Normandie and GANIL, January 20-31, 2020. 45 lectures and 45 exercise sessions. Main teacher

7. Morten Hjorth-Jensen, Matthew Hirn, Michelle Kuchera, and R. Ramanujan, https://indico.frib.msu.edu/event/16/, FRIB TA Summer School - Machine Learning Applied to Nuclear Physics, Facility for Rare Isotope Beams (FRIB) on the Michigan State University campus in East Lansing, MI from May 20 to 23, 2019. Main organizer and teacher.

8. **Hackathon on Computing in Science Education**, June 3-7, 2019, Michigan State University, East Lansing, USA. . Intensive workshop on Computing in Physics Education at Michigan State University. Organized together with Danny Caballero, MSU.

9. Morten Hjorth-Jensen, Nuclear Talent Course on Machine Learning in Nuclear Physics for the Erasmus+ program http://www.emm-nucphys.eu/, European Master in Nuclear Physics, University of Basse-Normandie and GANIL, January 21-February 1, 2019. 45 lectures and 45 exercise sessions. Main teacher

10. Nuclear Talent course on Many-body methods for nuclear physics, from Structure to Reactions at Henan Normal University, P.R. China, July 16-August 5 2018. Teachers: Kevin Fossez, Morten Hjorth-Jensen, Thomas Papenbrock, and Ragnar Stroberg.

11. Alex Brown, Alexandra Gade, Morten Hjorth-Jensen, Gustav Jansen, Robert Grzywacz, Nuclear Talent course on Nucleartheory for Nuclear Structure Experiments, July 3-21 2017. Main organizer and teacher with in total fifteen hours of lectures.

12. Hjorth-Jensen, Morten, High performance computing in Nuclear Physics, Lecture at the *Advanced Computational Research Experience* at Michigan State University, East Lansing, Michigan, June 1, 2017.

13. Hjorth-Jensen, Morten, How to write good code, Lecture at the *Advanced Computational Research Experience* at Michigan State University, East Lansing, Michigan, May 24, 2017.

14. Hjorth-Jensen, Morten, Computational Nuclear Physics and Post Hartree-Fock Methods. Configuration Interaction Theory, Many-Body Perturbation Theory and Coupled Cluster Theory, five lectures at 28th Indian-Summer School on Ab Initio Methods in Nuclear Physics, Prague, Czech Republic, August 29 - September 2, 2016.

15. Hjorth-Jensen, Morten, Computational Physics and Quantum Mechanical Systems, one week course on Computational Physics at the University of Tunis El Manar, Tunis, Tunisia, May 16-20, 2016. In total 15 hours of lectures and 15 hours of computer lab and exercises.

16. Co-organizer with Giuseppina Orlandini and Alejandro Kievsky of Nuclear Talent course Few-body methods and nuclear reactions, ECT*, Trento, Italy, July 20-August 7 2015

17. Carlo Barbieri, Wim Dickhoff, Gaute Hagen, Morten Hjorth-Jensen, and Artur Polls, Nuclear Talent course on Many-body methods for nuclear physics, GANIL, Caen, France, July 5-25 2015. Main organizer and teacher with in total five hours of lectures.

18. Hjorth-Jensen, Morten, ECT* Doctoral Training Program 2015 on Computational Nuclear Physics, April 13- May 22, ECT*, Trento, Italy. I taught the last week of the lecture series. In total I have ten one hour lectures.

19. Hjorth-Jensen, Morten, Nuclear Talent School in Nuclear Astrophysics, co-organizer with Richard Cyburt and Hendrik Schatz of the Nuclear Talent course on Nuclear Astrophysics, Michigan State University, May 26 - June 13, 2014.

20. Hjorth-Jensen, Morten, Nuclear Talent course on Density Functional theories, co-organizer with Scott Bogner, Nicolas Schunck, Dario Vretenar and Peter Ring, European Center for Theoretical Nuclear Physics and Related Areas, Trento, Italy, July 13 -August 1 2014.

21. Hjorth-Jensen, Morten, Nuclear Talent Course Introduction on High-performance computing and computational tools for nuclear physics; ECT*, Trento, Italy, June 24 - July 13 2012. Main organizer and teacher together with Francesco Pederiva, Kevin Schmidt and Calvin Johnson.

22. Hjorth-Jensen, Morten. Computational environment for Nuclear Structure, five lectures in Nuclear Physics at Universidad Complutense Madrid; 2011-01-17 - 2011-02-09

23. Hjorth-Jensen, Morten, organizer with David Dean, Thomas Papenprock and Gaute Hagen. Third MSU-UT/ORNL-UiO winter school in nuclear physics; Oak Ridge National Lab, Tennessee, January 2012

24. Hjorth-Jensen, Morten, organizer with Alex Brown and teaching five lectures. Second MSU-UT/ORNL-UiO winter school in nuclear physics, East Lansing, Michigan, USA; 2011-01-03 - 2011-01-07

25. Hjorth-Jensen, Morten, organizer, First MSU-UT/ORNL-UiO winter school in nuclear physics, Wadahl, Norway, January 4-10 2010

26. Hjorth-Jensen, Morten. Five lectures on Theory of shell-model studies for nuclei. CERN/Isolde course on nuclear structure theory; 2010-03-01 - 2010-03-04

27. Hjorth-Jensen, Morten. Six lectures on Nuclear interactions and the Shell Model. 8th CNS-EFES International Summer School, Riken, Tokyo, Japan, 2009-08-26 - 2009-09-01

28. Hjorth-Jensen, Morten. Five lectures on nuclear theory at the 20th Chris Engelbrecht Summer School in Theoretical Physics, Stellenbosch, South Africa, 2009-01-19 - 2009-01-28

29. Hjorth-Jensen, Morten. Nuclear many-body theory, five lectures at the UK Postgraduate Nuclear Physics Summer School, Leicester, UK, 2009-09-12 - 2009-09-23

30. Hjorth-Jensen, Morten. Nuclear many-body methods. Lectures series at Lund University; 2008-05-04 - 2008-05-07

31. Hjorth-Jensen, Morten. Trends in Nuclear Structure Theory. Workshop at the University of Lund; 2008-05-07 - 2008-05-07

32. Hjorth-Jensen, Morten. Trends in Nuclear Structure Theory. Physics Division Seminar; 2008-04-17 - 2008-04-17

33. Hjorth-Jensen, Morten. Trends in nuclear structure theory. Lecture series at the University of Padova and Legnaro National Laboratory, Padova Italy; 2008-07-16 - 2008-07-19

34. Hjorth-Jensen, Morten. Five lectures on Monte Carlo methods and applications in the physical sciences. eScience Winther School 2007; Geilo, Norway 2007-01-28 - 2007-02-02

35. Hjorth-Jensen, Morten. Five lectures at the ISOLDE Spring School in Nuclear Theory; CERN, Switzerland, 2007-05-21 - 2007-05-26

36. Hjorth-Jensen, Morten. Ten lecures at ECT* Doctoral Training Programme 2007; Trento, Italy, April 16-20

37. Hjorth-Jensen, Morten. From the nucleon-nucleon interaction to a renormalized interaction for nuclear systems. Lecture series at Michigan State University; April 2005

38. Hjorth-Jensen, Morten. CENS: A computational Environment for Nuclear Structure. Isolde Lecture series; 2004-11-11 - 2005-11-25

Research, Publications, books, refereed scientific articles, talks and research grants

Books:

1. Morten Hjorth-Jensen, *Computational Physics, an introduction*, to be published by IOP in 2021.

2. Morten Hjorth-Jensen, *Computational Physics, an advanced course*, to be published by IOP in 2021.

3. Morten Hjorth-Jensen, M.P. Lombardo and U. van Kolck, *Computational Nuclear Physics-Bridging the scales, from quarks to neutron stars*, Lectures Notes in Physics by Springer, Volume **936** (2017).

Publications in journals with a referee system:

1. Amber Boehnlein, Markus Diefenthaler, Cristiano Fanelli, Morten Hjorth-Jensen, Tanja Horn, Michelle P. Kuchera, Dean Lee, Witold Nazarewicz, Kostas Orginos, Peter Ostroumov, Long-Gang Pang, Alan Poon, Nobuo Sato, Malachi Schram, Alexander Scheinker, Michael S. Smith, Xin-Nian Wang, Veronique Ziegler, Artificial Intelligence and Machine Learning in Nuclear Physics, to be submitted to Reviews of Modern Physics

2. D. Rhodes, B. A. Brown, J. Henderson, A. Gade, J. Ash, P. C. Bender, R. Elder, B. Elman, M. Grinder, M. Hjorth-Jensen, H. Iwasaki, B. Longfellow, T. Mijatovic, M. Spieker, D. Weisshaar, and C. Y. Wu, **Exploring the role of high-j configurations in collective observables through the Coulomb excitation of 106Cd**, Physical Review C **103**, L051301 (2021)

3. Dean Lee, Scott Bogner, B. Alex Brown, Serdar Elhatisari, Evgeny Epelbaum, Heiko Hergert, Morten Hjorth-Jensen, Hermann Krebs, Ning Li, Bing-Nan Lu, Ulf-G. Meissner, Robert B. Wiringa, **Hidden spin-isospin exchange symmetry**, Physical Review Letters **127**, 062501 (2021)

4. Aynom T. Teweldebrhan, Thomas Schuler, John Burkhart, and Morten Hjorth-Jensen, *Coupled machine learning and the limits of acceptability approach applied in parameter identification for a distributed hydrological model*, Hydrology and Earth System Sciences 24, (2020), 4641

5. Robert Solli, Daniel Bazin, Michelle P. Kuchera, Ryan R. Strauss, Morten Hjorth-Jensen, *Unsupervised Learning for Identifying Events in Active Target Experiments*, Nuclear Instruments and Methods in Physics Research Section A **1010**, 165461, (2020)

6. John M. Aiken, Riccardo De Bin, Morten Hjorth-Jensen, Marcos D. Caballero, Predicting time to graduation at a large enrollment American university, PLoS ONE 15, e0242334 (2020)

7. Calvin W. Johnson, Kristina D. Launey, Naftali Auerbach, Sonia Bacca, Bruce R. Barrett, Carl Brune, Mark A. Caprio, Pierre Descouvemont, W. H. Dickhoff, Charlotte Elster, Patrick J. Fasano, Kevin Fossez, Heiko Hergert, Morten Hjorth-Jensen, Linda Hlophe, Baishan Hu, Rodolfo M. Id Betan, Andrea Idini, Sebastian König, Konstantinos Kravvaris, Dean Lee, Jin Lei, Pieter Maris, Alexis Mercenne, Kosho Minomo, Rodrigo Navarro Perez, Witold Nazarewicz, F. M. Nunes, Marek Ploszajczak, Sofia Quaglioni, Jimmy Rotureau, Gautam Rupak, Andrey M. Shirokov, Ian Thompson, James P. Vary, Alexander Volya, Furong Xu, Remco G.T. Zegers, Vladimir Zelevinsky, Xilin Zhang, *From Bound States to the Continuum*, Journal of Physics G Phys. 47, 123001 (2020)

8. D. A. Torres, R. Chapman, V. Kumar, B. Hadinia, A. Hodsdon, M. Labiche, X. Liang, D. O'Donnell, J. Ollier, R. Orlandi, J. F. Smith, K. -M. Spohr, P. Wady, Z. M. Wang, L. Corradi, E. Fioretto, A. Gadea, G. de Angelis, N. Mărginean, D. R. Napoli, E. Sahin, A. M. Stefanini, J. J. Valiente-Dobón, F. D. Vedova, M. Axiotis, T. Martinez, S. Szilner, D. Bazzacco, S. Beghini, E. Farnea, R. Mărginean, D. Mengoni, G. Montagnoli, F. Recchia, F. Scarlassara, C. A. Ur, S. M. Lenzi, S. Lunardi, T. Kröll, F. Haas, T. Faul, M. Hjorth-Jensen, B. G. Carlsson, S. J. Freeman, A. G. Smith, G. Jones, N. Thompson, G. Pollarolo, G. S. Simpson, *Study of medium-spin states of neutron-rich 87, 89, 91Rb isotopes*, European Physical Journal A 55 (2019) p.158

9. Marcos Daniel Caballero, Morten Hjorth-Jensen, Integrating a Computational Perspective in Physics Courses, arXiv:1802.08871, Nova Publishers, New Trends in Physics Education Research (2018)

10. Erich W. Ormand, Alex B. Brown and Morten Hjorth-Jensen, *First-principles calculations for c-coefficients of the isobaric mass multiplet equation in the 1p0f shell*, *Physical Review C* Rapids, 96:024323 (2017).

11. Morten Hjorth-Jensen, M.P. Lombardo and U. van Kolck, *Motivation and Overarching Aims*, *Lecture Notes in Physics*, Editors M. Hjorth-Jensen, M.P. Lombardo and U. van Kolck, Volume **936** pages 1-4 (2017).

12. Justin Lietz, Sam Novario, Gustav, Jansen, Gaute Hagen, and Morten Hjorth-Jensen, *High-performance computing and infinite nuclear matter*, *Lecture Notes in Physics*, Editors M. Hjorth-Jensen, M.P. Lombardo and U. van Kolck, Volume **936** pages 293-399 (2017).

13. Fei Yuan, Sam Novario, Nathan Parzuchowski, Sarah Reimann, Scott K. Bogner and Morten Hjorth-Jensen., *First principle calculations of quantum dot systems*, Journal of Chemical Physics, 147:164109 (2017).

14. Morten Hjorth-Jensen, *Scattering Experiments Tease Out the Strong Force*, *Physics*, 10:72 (2017).

15. Naofumi Tsunoda, Takaharu Otsuka, Noritaka Shimizu, Morten Hjorth-Jensen, Kazuo Takayanagi, Toshio Suzuki, *Exotic neutron-rich medium-mass nuclei with realistic nuclear forces*, *Physical Review C* Rapids, 95:021304(R) (2017).

16. G. Hagen, M. Hjorth-Jensen, G. R. Jansen, T. Papenbrock, *Emergent properties of nuclei from ab initio coupled-cluster calculations*, *Physica Scripta*, 91:063006 (2016).

17. G. Hagen, A. Ekstrom, C. Forssen , G. R. Jansen, W. Nazarewicz, T. Papenbrock, K. A. Wendt, S. Bacca, N. Barnea, B. Carlsson, C. Drischler, K. Hebeler, M. Hjorth-Jensen, M. Miorelli, G. Orlandini, A. Schwenk, and J. Simonis, *Charge, neutron, and weak size of the atomic nucleus*, *Nature Physics*, 12:186–190 (2016).

18. A. Ekstrom, G. R. Jansen, K. A. Wendt, G. Hagen, T. Papenbrock, B. D. Carlsson, C. Forssen, M. Hjorth-Jensen, P. Navratil, W. Nazarewicz, *Accurate nuclear radii and binding energies from a chiral interaction*, *Physical Review C*, 91, 051301(R) (2015).

19. A. Ekstrom, B. D. Carlsson, K. A. Wendt, C. Forssén, M. Hjorth-Jensen, R. Machleidt, S. M. Wild, *Statistical uncertainties of a chiral interaction at next-to-next-to leading order*, *Journal of Physics G*, 42:034003 (2015).

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23. G. Hagen, T. Papenbrock, A. Ekstrom, G. Baardsen, S. Gandolfi, K. A. Wendt, M. Hjorth-Jensen, and C. Horowitz, *Coupled-cluster calculations of nucleonic matter*, *Physical Review C*, 89:014319 (2014).

24. T. Papenbrock, G. Hagen, M. Hjorth-Jensen, and D. J. Dean, *Coupled-cluster computations of atomic nuclei*, *Reports on Progress in Physics*, 77:096302 (2014).

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26. G. Baardsen, A. Ekstrom, G. Hagen, and M. Hjorth-Jensen, *Coupled-cluster studies of infinite nuclear matter*, *Physical Review C*, 88:054312 (2013).

27. V. M. Bader, A. Gade, D. Weisshaar, T. Baugher, D. Bazin, J. S. Berryman, B. A. Brown, A. Ekstrom, M. Hjorth-Jensen, S. R. Stroberg, W. B. Walters, K. Wimmer, and R. Winkler, *Quadrupole collectivity in neutron-deficient Sn nuclei: 104Sn and the role of proton excitations*, *Physical Review C*, 88:051301(R) (2013).

28. A. Ekstrom, G. Baardsen, C. Forss'en, G. Hagen, M. Hjorth-Jensen, G. R. Jansen, R. Machleidt, W. Nazarewicz, T. Papenbrock, J. Sarich, and S. M. Wild, *An optimal chiral interaction at next-to-next-to leading order*, *Physical Review Letters*, 110:192502 (2013).

29. Lepailleur, A. and Sorlin, O. and Caceres, L. and Bastin, B. and Borcea, C. and Borcea, R. and Brown, B. A. and Gaudefroy, L. and Gr'evy, S. and Grinyer, G. F. and Hagen, G. and Hjorth-Jensen, M. and Jansen, G. R. and Llidoo, O. and Negoita, F. and de Oliveira, F. and Porquet, M.-G. and Rotaru, F. and Saint-Laurent, M.-G. and Sohler, D. and Stanoiu, M. and Thomas, J. C., *Spectroscopy of 26F to Probe Proton-Neutron Forces Close to the Drip Line*, *Physical Review Letters*, 110:082502 (2013).

30. D. D. DiJulio, J. Cederkall, C. Fahlander, A. Ekstrom, M. Hjorth-Jensen, M. Albers, V. Bildstein, A. Blazhev, I. Darby, T. Davinson, H. De Witte, J. Diriken, Ch. Fransen, K. Geibel, R. Gernhäuser, A. Görgen, H. Hess, K. Heyde, J. Iwanicki, R. Lutter, P. Reiter, M. Scheck, M. Seidlitz, S. Siem, J. Taprogge, G. M. Tveten, J. Van de Walle, D. Voulot, N. Warr, F. Wenander, and K. Wimmer *Coulomb excitation of 107In*, *Physical Review C*, 87:017301 (2013).

31. C. Forssen, G. Hagen, M. Hjorth-Jensen, W. Nazarewicz, and J. Rotureau, *Living on the edge of stability, the limits of the nuclear landscape*, *Physica Scripta*, T152:014022 (2013).

32. Liddick, S. N. and Abromeit, B. and Ayres, A. and Bey, A. and Bingham, C. R. and Brown, B. A. and Cartegni, L. and Crawford, H. L. and Darby, I. G. and Grzywacz, R. and Ilyushkin, S. and Hjorth-Jensen, M. and Larson, N. and Madurga, M. and Miller, D. and Padgett, S. and Paulauskas, S. V. and Rajabali, M. M. and Rykaczewski, K. and Suchyta, S., * Low-energy level schemes of 66,68Fe and inferred proton and neutron excitations across $Z = 28$ and $N = 40$*, *Physical Review C*, 87:014325, 2013.

33. D. D. DiJulio, J. Cederkall, C. Fahlander, A. Ekstrom, M. Hjorth-Jensen, M. Albers, V. Bildstein, A. Blazhev, I. Darby, T. Davinson, H. De Witte, J. Diriken, Ch. Fransen, K. Geibel, R. Gernhauser, A. Gorgen, H. Hess, J. Iwanicki, R. Lutter, P. Reiter, M. Scheck, M. Seidlitz, S. Siem, J. Taprogge, G.M. Tveten, J. Van de Walle, D. Voulot, N. Warr, F. Wenander, and K. Wimmer, *Excitation strengths in 109Sn: Single-neutron and collective excitations near 100Sn*, *Physical Review C*, 86:031302(R), 2012.

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36. Gaute Hagen, Morten Hjorth-Jensen, Gustav Ragnar Jansen, Ruprecht Machleidt, and Thomas Papenbrock, *Continuum effects and three-nucleon forces in neutron-rich oxygen isotopes*, *Physical Review Letters*, 108:242501, 2012.

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55. Engeland, Torgeir; Hjorth-Jensen, Morten; Holt, Anne; Osnes, Eivind. Large shell model calculations with realistic effective interactions. Physica Scripta 1995 ;T56. p. 58-66 Conference: International Symposium on New Nuclear Structure Phenomena in the Vicinity of Closed Shells Location: STOCKHOLM, SWEDEN, AUG 30-SEP 03, 1994

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Talks, lectures and seminars at workshops, conferences, schools and institute colloquiua.

1. Hjorth-Jensen, Morten, Quantum Computing and Quantum Mechanics for Many Interacting Particles, Gemini center at Sintef seminar, Oslo, March 3, 2021

2. Hjorth-Jensen, Morten, Machine Learning and Quantum Mechanics for Many Interacting Particles, NITheP Colloquium, South Africa, Monday, 8 February 2021

3. Hjorth-Jensen, Morten, Machine Learning meets Nuclear Physics, XAI seminar series: Explaining what goes on inside DNN/AI, SINTEF/University of Oslo, Norway, December 8, 2020.

4. Hjorth-Jensen, Morten, Machine Learning meets Nuclear Physics, University of the Western Cape, South Africa, November 30- December 4, 2020, online workshop **Tastes of Nuclear Physics** `http://nuclear.uwc.ac.za/index.php/tnp2020/`

5. Hjorth-Jensen, Morten, Machine Learning meets Nuclear Physics, Institute colloquium at the Department of Physics, University of Padova, Italy, October 13, 2020.

6. Hjorth-Jensen, Morten, Machine Learning and Quantum Mechanics for Many Interacting Particles, UiO, March 3, 2020 https://www.mn.uio.no/math/english/research/groups/statistics-data-science/events/seminars/hjorth-jensen.html

7. Hjorth-Jensen, Morten, Lecture on Nuclear Physics at the NS3 school, FRIB, Michigan State University, May 15, 2019. Main organizer Artemis Spyrou, Michigan State University.

8. Morten Hjorth-Jensen, Solving Quantum Mechanical Many-body Problems with Machine Learning Algorithms, Chalmers Tekniska Høgskola, Gøteborg, Sverige, October 28, 2019.

9. Hjorth-Jensen, Morten, Integrating a Computational Perspective in Physics (and Science) Courses, October 23, 2019. Ole Rømer Colloquium, Department of Physics and Astronomy, University of Århus, Denmark https://phys.au.dk/en/news/item/artikel/ole-roemer-colloquium-morten-hjort-jensen-tba/

10. Morten Hjorth-Jensen, Solving Quantum Mechanical Many-body Problems with Machine Learning Algorithms, University of Surrey, Guildford, UK, October 1, 2019.

11. Hjorth-Jensen, Morten, Machine Learning and Quantum Mechanics for Many Interacting Particles, University of Ohio, Athens, April 16, 2019 https://mhjensenseminars.github.io/MachineLearningTalk/doc/pub/unitn/html/uniohio-reveal.html

12. Hjorth-Jensen, Morten, Machine Learning and Quantum Mechanics for Many Interacting Particles, University of Trento, Italy, March 12, 2019, 2019 https://mhjensenseminars.github.io/MachineLearningTalk/doc/pub/unitn/html/unitn-reveal.html

13. Hjorth-Jensen, Morten, "Integrating Computations in Physics Courses, Workshop on New Horizons in Teaching Science: 18th-19th, June 2018, University of Messina, Italy"

14. Hjorth-Jensen, Morten, Nuclear Structure studies from decay spectroscopy, Decay Station Workshop, NSCL/FRIB Michigan State University, January 25-26, 2018

15. Hjorth-Jensen, Morten, Computing in Science Education; how to integrate computing in Science courses across disciplines, seminar at the University of Surrey, UK, November 28 2017

16. Hjorth-Jensen, Morten, Computing in Physics Education, Invited talk at the 103rd National congress of the Italian Physical Society, Trento, September 11-15, 2017, Italy

17. Alex Brown, Alexandra Gade, Morten Hjorth-Jensen, Gustav Jansen, Robert Grzywacz, Nuclear Talent course on Nucleartheory for Nuclear Structure Experiments, July 3-21 2017. Main organizer and teacher with in total fifteen hours of lectures.

18. Hjorth-Jensen, Morten, High performance computing in Nuclear Physics, Lecture at the *Advanced Computational Research Experience* at Michigan State University, East Lansing, Michigan, June 1, 2017.

19. Hjorth-Jensen, Morten, How to write good code, Lecture at the *Advanced Computational Research Experience* at Michigan State University, East Lansing, Michigan, May 24, 2017.

20. Hjorth-Jensen, Morten, Minnetalen over Hans Petter Langtangen, Det Norske Vitenskapsakademiet, Oslo, Norway, March 16, 2017.

21. Hjorth-Jensen, Morten, Living on the edge of stability, challenges to nuclear theory in the FRIB era, Nuclear Physics seminar, Unversity of Notre Dame, Notre Dame, IN 46556, USA, January 30, 2017

22. Hjorth-Jensen, Morten, Computational Nuclear Physics and Post Hartree-Fock Methods. Configuration Interaction Theory, Many-Body Perturbation Theory and Coupled Cluster Theory, five lectures at 28th Indian-Summer School on Ab Initio Methods in Nuclear Physics, Prague, Czech Republic, August 29 - September 2, 2016.

23. Hjorth-Jensen, Morten, Computational Physics and Quantum Mechanical Systems, one week course on Computational Physics at the University of Tunis El Manar, Tunis, Tunisia, May 16-20, 2016. In total 15 hours of lectures and 15 hours of computer lab and exercises.

24. Hjorth-Jensen, Morten, Correlations in many-body systems; from condensed matter physics to nuclear physics, T-2, Nuclear and Particle Physics, Astrophysics and Cosmology, Los Alamos National Laboratory, New Mexico, USA, Tuesday, April 12, 2016

25. Hjorth-Jensen, Morten, Integrating a Computational Perspective in the Basic Science Education, Department of Physics Colloquium at Central Michigan University, Kalamazoo, Michigan, USA, April 4, 2016

26. Co-organizer with Giuseppina Orlandini and Alejandro Kievsky of Nuclear Talent course Few-body methods and nuclear reactions, ECT*, Trento, Italy, July 20-August 7 2015

27. Carlo Barbieri, Wim Dickhoff, Gaute Hagen, Morten Hjorth-Jensen, and Artur Polls, Nuclear Talent course on Many-body methods for nuclear physics, GANIL, Caen, France, July 5-25 2015. Main organizer and teacher with in total five hours of lectures.

28. Hjorth-Jensen, Morten, ECT* Doctoral Training Program 2015 on Computational Nuclear Physics, April 13- May 22, ECT*, Trento, Italy. I taught the last week of the lecture series. In total I have ten one hour lectures.

29. Hjorth-Jensen, Morten, Correlations in many-body systems, from condensed matter physics to nuclear physics, invited talk at Clarkfest 15, conference in honor of John W Clark, Wayman Crow Professor of Physics, Washington University in St. Louis, Missouri, April 27-28 2015.

30. Hjorth-Jensen, Morten, Correlations in many-body systems, from condensed matter physics to nuclear physics, Nuclear Physics Seminar, Iowa State University, Ames, Iowa, April 22 2015.

31. Hjorth-Jensen, Morten, Nuclear physics education and the national FRIB theory center, plus some cool ways to organize your lectures, special seminar, Iowa State University, Ames, Iowa, April 23 2015.

32. Hjorth-Jensen, Morten, Integrating a Computational Perspective in the Basic Science Education, Special Lectures and Events, Notre Dame University, South Bend, Indiana, March 30 2015.

33. Hjorth-Jensen, Morten, Computing in Science Education. Integrating a Computational Perspective in the Basic Science Education, Physics Colloquium, Central Michigan University, Mt Pleasant, March 19 2015.

34. Hjorth-Jensen, Morten, From Nuclei to Neutron Stars: Why Is Matter Stable? Physics Colloquium, Ohio University, Athens, Ohio, February 27 2015.

35. Hjorth-Jensen, Morten, Computing in Science Education. Integrating a Computational Perspective in the Basic Science Education, condensed matter seminar, Ohio University, Athens, Ohio, February 26 2015.

36. Hjorth-Jensen, Morten, Theory challenges around 78Ni and 132Sn, invited talk at RIBSS Center retreat and CSAC, Michigan State University, June 11-13 2014.

37. Hjorth-Jensen, Morten, Living at the edge of stability, understanding the limits of the nuclear landscape, Institute colloquium, Department of Physics, Lousiana State University, Baton Rouge, Lousiana, April 3 2014.

38. Hjorth-Jensen, Morten, Computing in Science education, how to introduce a computational perspective in the basic science education, special colloquium Department of Physics, Lousiana State University, Baton Rouge, Lousiana, April 4 2014.

39. Hjorth-Jensen, Morten, Correlations in Nuclei and Quantum Dots, invited talk at The Fourth Conference on NUCLEI and MESOSCOPIC PHYSICS, Michigan State University, May 5-9 2014.

40. Hjorth-Jensen, Morten, Nuclear Talent School in Nuclear Astrophysics, co-organizer with Richard Cyburt and Hendrik Schatz of the Nuclear Talent course on Nuclear Astrophysics, Michigan State University, May 26 - June 13, 2014.

41. Hjorth-Jensen, Morten, Nuclear Talent course on Density Functional theories, co-organizer with Scott Bogner, Nicolas Schunck, Dario Vretenar and Peter Ring, European Center for Theoretical Nuclear Physics and Related Areas, Trento, Italy, July 13 -August 1 2014.

42. Hjorth-Jensen, Morten. Living at the edge of stability, understanding the limits of the nuclear landscape. Institute colloquium Centre Etudes Nucléaires de Bordeaux Gradignan; 2013-12-10 - 2013-12-10

43. Hjorth-Jensen, Morten. Educating the next generation of nuclear scientists; how can a center like the ECT* aid in developing modern nuclear physics educational programs?. ECT* 20th anniversary colloquium; 2013-09-14 - 2013-09-14

44. Hjorth-Jensen, Morten. Living at the edge of stability, understanding the limits of the nuclear landscape; computational and algorithmic challenges. XXV IUPAP Conference on Computational Physics, August 20, 2013-August 24, 2013, Moscow, Russia; 2013-08-20 - 2013-08-24

45. Hjorth-Jensen, Morten. Living at the edge of stability, understanding the nuclear landscape. Theory seminar National Superconducting Cyclotron Laboratory; 2013-03-19 - 2013-03-19

46. Hjorth-Jensen, Morten. Living on the edge of stability, the limits of nuclear landscape. Physics Division seminar, Argonne National Laboratory, Illinois, USA; 2013-06-05 - 2013-06-05

47. Hjorth-Jensen, Morten. Living on the edge of stability, the limits of the nuclear landscape. Institute colloquium; 2013-03-22 - 2013-03-22

48. Hjorth-Jensen, Morten. Living on the edge of stability, understanding the limits of the nuclear landscape. Nuclear Theory in the Supercomputing Era; 2013-05-13 - 2013-05-17

49. Hjorth-Jensen, Morten. Computing in Science Education. Seminar at college of engineering; 2012-03-15 - 2012-03-15

50. Hjorth-Jensen, Morten. Computing in Science Education, a new way to teach science?. Institute seminar The Ohio State University; 2012-02-28 - 2012-02-28

51. Hjorth-Jensen, Morten. Evolution of shell structure in neutron-rich isotopes. Research seminar National Superconducting Cyclotron Laboratory; 2012-03-15 - 2012-03-15

52. Hjorth-Jensen, Morten. Evolution of shell structure in neutron-rich isotopes and the stability of nuclear matter. Exotic Nuclear Structure from Nucleons; 2012-10-10 - 2012-10-12

53. Hjorth-Jensen, Morten. Introduction to computational nuclear physics. High-performance computing and computational tools for nuclear physics; 2012-06-24 - 2012-07-13

54. Hjorth-Jensen, Morten. Lecture 2: Configuration interaction theory. High-performance computing and computational tools for nuclear physics; 2012-06-24 - 2012-07-13

55. Hjorth-Jensen, Morten. Lectures 3-5: Configuration interaction theory and computational nuclear physics. High-performance computing and computational tools for nuclear physics; 2012-06-24 - 2012-07-13

56. Hjorth-Jensen, Morten. Shell Structure in Neutron-rich isotopes and the stability of nuclear matter. Berkeley Lab Colloquia 2012; 2012-05-30 - 2012-05-30

57. Hjorth-Jensen, Morten. Understanding the stability of nuclear matter. Nuclear strcuture seminar The Ohio State University; 2012-02-29 - 2012-02-29

58. Hjorth-Jensen, Morten. Understanding the stability of nuclear matter. Triangle Nuclear Theory Colloquium; 2012-05-01 - 2012-05-01

59. Hjorth-Jensen, Morten. Why is matter stable?. Theory of Nuclear Physics Related to the RI Facilities; 2012-05-11 - 2012-05-12

60. Hjorth-Jensen, Morten. Why is matter stable? Understanding the limits of stability of nuclear matter. Nobel Symposium 152; 2012-06-10 - 2012-06-15

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