

CURRICULUM VITAE

DR. PETER ENGELS

Yount Distinguished Professor of Sciences, Washington State University

CONTACT INFORMATION

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Google scholar: <https://scholar.google.com/citations?user=CLdCIxQAAAAJ&hl=en&oi=ao>

EXPERIENCE

- WSU, Department of Physics and Astronomy, Professor, 2015 - present
- WSU, Department of Physics and Astronomy, Associate Professor with tenure, 2009 - 2015
- WSU, Department of Physics and Astronomy, Assistant Professor, 2004 - 2009
- JILA / University of Colorado, Postdoctoral Research Associate, 2001 – 2004
Advisor: Prof. Eric Cornell
- University of Hannover, Germany, Institute for Quantum Optics, Graduate Student Researcher, 1997 – 2001
Advisor: Prof. Wolfgang Ertmer and Prof. Klaus Sengstock
- Princeton University, Chemistry Department, Visiting graduate researcher, 1996 – 1997
Advisor: Prof. Giacinto Scoles

EDUCATION

- PhD Physics, University of Hannover, Germany, 2000, “with distinction”
Thesis: *Lithography and matter wave optics with laser cooled atomic beams*
Committee: Prof. Wolfgang Ertmer, Prof. Klaus Sengstock (chairs),
Prof. Maciej Lewenstein and Prof. Rolf Haug
- Diplom (M.S. equivalent), Physics, University of Bonn, Germany, 1996
- Vordiplom (B.S. equivalent), Physics, University of Bonn, Germany, 1993

HONORS AND AWARDS

- Ralph G. Yount Distinguished Professor in Sciences, WSU, since 2020
- Edward R. Meyer Distinguished Professorship in Sciences, WSU, 2017 - 2020
- WSU Mid-Career Achievement Award by the WSU College of Arts and Sciences, 2017
- APS fellow, 2016
- WSU College of Sciences Young Faculty Performance Award, one awarded, 2007
- Alexander-von-Humboldt foundation, Feodor-Lynen scholarship, 2001
- University of Hannover, Germany, book prize for excellence of PhD work, 2000
- German National Academic Foundation, Foreign Exchange scholarship, 1996
- Member of “Studienstiftung des deutschen Volkes” (German National Academic Foundation), 1991

STUDENT AWARDS

- Colby Schimelfenig, NASA Space Grant Scholarship, 2022.
- Maren Mossman, WSU College of Arts and Sciences Ph.D. Student Achievement in the Sciences, Spring 2019.
- Maren Mossman, WSU Association for Faculty Women Harriett B. Rigas Outstanding Woman in Doctoral Studies Award, Spring 2019.
- Maren Mossman, WSU GPSA Research Exposition, Physical and Social Sciences Category 3rd place, Spring 2019.
- Maren Mossman, Golding Family Fellowship in the Sciences, Spring 2018.
- Maren Mossman, “Featured scientists of the week” for the SPIE #FacesOfPhotonics Campaign, March 2018.
- Justin Niedermeyer, Pass With Distinction award for Honors College thesis, 2016, WSU.
- Amin Khamehchi, Leon J. and Barbara W. Radziemski Graduate Fellowship in the Sciences. This fellowship was founded to reward academic excellence for graduate students in the maths and physical sciences.
- Justin Niedermeyer, Fulbright award, 2016. This award allows Justin to spend a 10 month research stay at the University of Heidelberg, Germany.
- Maren Mossman, NASA Space Grant Scholarship. This scholarship was awarded for her current research project entitled “Few-body systems in microgravity”.
- Justin Niedermeyer, Barry Goldwater award, 2015. This is the most prestigious undergraduate award for the sciences in the US.
- Justin Niedermeyer, RISE (Research Internship in Science and Engineering) scholarship by DAAD (German Academic Exchange Service), 2014.
- JiaJia Chang, First Prize WSU Wiley Research competition, poster presentation in engineering and physical sciences category.

- Collin Atherton, First Prize WSU College of Sciences Undergraduate Research Poster Competition, Physical Sciences Category, 2007.

RESEARCH INTERESTS

- **Experiments with ultracold quantum gases:** *Bose-Einstein condensation, degenerate Fermi gases, atom lasers, few-body physics*
- **Quantum analog simulation of condensed matter problems:** *spin-orbit coupled BECs, artificial gauge fields, novel band structures, supersolid-like phases, quantum state engineering*
- **Quantum hydrodynamics and nonlinear phenomena:** *solitons, vortices, quantum shocks, quantum hydrodynamics in higher order dispersion and with negative mass*
- **Modern quantum technologies:** *member of NASA's CAL (Cold Atom Lab) collaboration that operates a fully remote controlled BEC apparatus onboard the International Space Station (ISS)*