

Cheng Chin - Curriculum Vitae

Address 929 E. 57th Street, Chicago, IL 60637, USA
Phone (1) 773-702-7192 Email cchin@uchicago.edu
Fax (1) 773-834-5250 Website <http://ultracold.uchicago.edu>

Education

1995-2001 Ph.D., Physics, Stanford University (Advisor: Steven Chu)
1990-1993 B.S., Physics, National Taiwan University

Academic Position

2019-2022 Honorary Chair Professor, National Sun Yat-Sen University, Taiwan
2018-2020 Visiting Professor, Tsinghua University, China
2015 JILA Visiting Fellow, JILA
2014, 2015 Visiting Professor, Universität München, Munich, Germany
2014, 2015 Guest Scientist, Max-Planck-Institut für Quantenoptik, Garching, Germany
2014, 2015 Visiting Professor, Universität Ulm, Ulm, Germany
2014 Visiting Professor, ETH Zurich, Zurich, Switzerland
2013 Visiting Scientist, Institute of Atomic and Molecular Sciences, Taiwan
2013 Visiting Scientist, Center for Ultracold Atoms, MIT
2013 Visiting Professor, Physics and Astronomy Department, Rice University
2013- Professor, Enrico Fermi institute, University of Chicago
2013- Professor, James Franck institute, University of Chicago
2013- Professor, Department of Physics, University of Chicago
2009-2012 Associate Professor, James Franck institute, University of Chicago
2009-2012 Associate Professor, Department of Physics, University of Chicago
2005-2008 Assistant Professor, James Franck institute, University of Chicago
2005-2008 Assistant Professor, Department of Physics, University of Chicago
2005 Visiting Professor, ETH, Zurich, Switzerland
2003 Visiting Professor, Institut für Experimentalphysik, Universität Innsbruck, Austria
2003-2005 Visiting Scientist, Institut für Experimentalphysik, Universität Innsbruck, Austria
2001-2003 Postdoctoral Fellow, Physics Department, Stanford University

Honors and Awards *(since 2003)*

2024 Academician of Academic Sinica
2021 Marian and Stuart Rice Research Award
2017 Bose-Einstein Condensation Award
2014 American Physical Society Fellow
2014 Thomson Reuters Highly Cited Researcher
2014 Distinguished Alumni Award, Physics Department, National Taiwan University
2013-2015 Alexander von Humboldt Research Fellow
2011 I. I. Rabi Prize, American Physics Society
2009 Materials Computation Center Travel Award
2008 IUPAP Young Scientist Prize in Atomic, Molecular and Optical Physics

2008-2012 National Science Foundation CAREER award
 2006-2012 The David and Lucile Packard Fellow
 2006 Outstanding Young Researcher Award, Overseas Chinese Physics Association
 2006-2008 Alfred P. Sloan Research Fellow
 2003-2005 Lise-Meitner Postdoctoral Research Fellow, Austrian Science Fund

Academic Activities (since 2001)

2024 Organizer, DeMille Fest – *Dr. David DeMille's 60th Birthday Celebration Symposium*
 2023-2024 Organizer, University of Chicago-Taiwan Exchange Program in Sciences (UCTS)
 2021-2022 President, International Organization of Chinese Physicists and Astronomers
 2016-2019 Executive Committee, APS DAMOP
 2015-2020 Bose-Einstein Condensation Conference Scientific Committee
 2015 Co-organizer, INT Program: “Frontiers on Quantum Simulation with Cold Atoms”
 2014-2020 JILA National Science Foundation Physics Frontier Center Advisory Committee
 2012 Chair, American Physical Society (APS) Midwest Prairie Section
 2011~2014 Program Committee, American Physical Society Division of Atomic, Molecular and Optical Physics (APS DAMOP) conference
 2011 Co-organizer, Aspen Workshop “Few- & Many-Body Physics in Cold Quantum Gases Near Resonances”
 2011 National Science Foundation AMO Physics Proposal Review Panelist
 2010 Co-organizer, Conference on *Novel Quantum States in Condensed Matter*, Beijing, China
 2010~2017 Editor, New Journal of Physics
 2008~2024 Organizer, S.M.A.R.T. (Science, Mathematics, and Research Training) High School Science Outreach Program
 2008 Organizer, “Frontier in Laser Cooling, Single-Molecule Biophysics and Energy Science – *Dr. Steven Chu's 60th Birthday Celebration Symposium*”
 2007~2012 Director, Chicago MRSEC Research Experiences for Undergraduates (REU) Program
 2007,11,18,23 Organizer, France-Chicago research exchange program in Physics
 2005,09,16,23 Organizer, Midwest Cold Atom Workshop
 2001 Local committee member and Editor, the 15th ICOLS (International Conference of Laser Spectroscopy Conference)

Current Group Members

8 Graduate students Geyue Cai, Mingjiamei Zhang, Shu Nagata, Lauren Weiss, Henry Endo, Evan Yamaguchi, Lambert Kong, Rahaf Youssef
 7 Undergrad students Nathan Brucotao, Marie Buclez, Leon Gold, Otto Meyer, Polly Wang, Wirunchana Rattanasakuldilok, Zihan Xu

Former Students and Postdoctoral Fellows

<i>Name</i>	<i>UChicago Position</i>	<i>Current position</i>
Chen-Lung Hung	Ph.D. in Physics, 2005~2011	Associate Professor, Purdue University
Xibo Zhang	Ph.D. in Physics, 2006~2012	Associate Professor, Peking University, China
Skyler Degenkolb	Undergrad, 2007~2010	Professor, Heidelberg University, Germany
Kathy-Anne Soderberg	Postdoc fellow, 2007~2010	Senior Scientist, Air Force Research Laboratory
Eric Hazlett	Postdoc fellow, 2011~2013	Assistant Professor, St. Olaf College
Zhaoyuan Ma	Postdoc fellow, 2010	Professor, Future Laboratory, Tsinghua Univ.
Shih-Kuang Tung	Postdoc fellow, 2010~2014	Assistant Professor, Tsinghua Univ., Taiwan
Karina Jimenez Garcia	Postdoc fellow, 2012~2014	Assistant Professor, Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico City, Mexico
Colin Parker	Postdoc fellow, 2011~2015	Associate Professor, Georgia institute of Technology
Jiazhong Hu	Postdoc fellow, 2017~2018	Assistant Professor, Tsinghua Univ., China
Brian DeSalvo	Postdoc fellow, 2016~2019	Assistant Professor, Indiana University
Lei Feng	Ph.D. in Physics, 2013~2019	Assistant Professor, Fudan University
Zhendong Zhang	Ph.D. in Physics, 2022	Postdoc Fellow, Stanford University

Selected Public Coverages (2005-2023)

- 2023 **Scientific American:** 'Quantum Superchemistry' Observed for the First Time Ever
- 2023 Physics.org: *Study demonstrates many-body chemical reactions in a quantum degenerate gas*
- 2023 **Univ. of Chicago News:** Chicago scientists observe first evidence of 'quantum superchemistry' in the laboratory
- 2023 **Univ. of Chicago News:** Scientists use lasers to recreate 'twisted' superconducting material
- 2022 **Univ. of Chicago News:** UChicago scientists create strange quantum 'domain walls' in laboratory
- 2021 **National Science Foundation:** Bose fireworks and Shooting quantum particles resembles pattern like a turtle
- 2021 **New Scientist:** *Frozen cloud of molecules acts as a single quantum object*