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Rene A. Ong

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Education:

1987	Ph.D. Physics	Stanford University Ph.D. Thesis: <i>Measurement of the B Hadron Lifetime</i> Advisor: John A. Jaros
1983	M.S. Physics	Stanford University Advisor: Martin L. Perl
1981	B.S. Physics	University of Michigan Undergraduate Thesis: <i>Design of a Low Energy Electron Neutrino Beam</i> Advisor: Lawrence R. Sulak

Employment / Positions:

2020-	Distinguished Professor	Department of Physics and Astronomy University of California, Los Angeles
2023-2024	Visiting Scientist	INFN-Trieste Trieste, Italy
2001-2020	Professor	Department of Physics and Astronomy University of California, Los Angeles
2016	Visiting Professor	Institute for Cosmic Ray Research (ICRR) University of Tokyo, Kashiwa, Japan
2015	Visiting Scientist	INAF-Milano Milano, Italy
	Visiting Scientist	INFN-Padova, INFN- Bari Padova and Bari, Italy
2011	Directeur de Recherche 1	Laboratoire Leprince Ringuet (LLR) Ecole Polytechnique, Palaiseau, France
2010-2011	Ernest Kempton Adams Research Fellow	Department of Physics Columbia University

2005	Visiting Scholar	Department of Physics University of Michigan
1998-2001	Associate Professor	Department of Physics & Enrico Fermi Institute University of Chicago
1991-1998	W.W. Grainger Assistant Professor	Department of Physics & Enrico Fermi Institute University of Chicago
1988-1991	Robert R. McCormick Fellow	Enrico Fermi Institute University of Chicago
1987-1988	Postdoctoral Research Associate	Research Division Stanford Linear Accelerator Center
1980-1981	Research Assistant	Department of Physics University of Michigan
1980	Research Assistant	Physics Department Brookhaven National Laboratory
1979	Research Assistant	Space Physics Research Laboratory University of Michigan

Honors and Awards

- Ronald and Jeryl Abelmann Award for Undergraduate Teaching Excellence; Teacher of the Year, Dept. of Physics and Astronomy, UCLA, 2020-21
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2017-2018
- *DESY Silberne Ehrennadel*, Deutsches Elektronen-Synchrotron, Hamburg, Germany, 2017
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2016-2017 (2)
- Ernest Kempton Adams Research Fellow, Columbia University, 2010-11
- Outstanding Referee, American Physical Society, 2010
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2007-2008
- Fellow, American Physical Society, 2003
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2001-2002
- A.P. Sloan Foundation Fellow, 1992
- Robert R. McCormick Fellow, Enrico Fermi Institute, 1988
- James B. Angell Scholar, University of Michigan, 1981
- B.S. in Physics with Highest Distinction, University of Michigan, 1981
- Phi Beta Kappa, 1980
- William J. Branstrom Prize, University of Michigan, 1978
- Rackham Undergraduate Fellowship, University of Michigan, 1977-1981

Scientific Collaboration Leadership:

2014-2024	<u>Co-Spokesperson</u> , Cherenkov Telescope Array (CTA) Consortium
2014	<u>Deputy Chair</u> , CTA-US Steering Committee
2009-2013	<u>Spokesperson</u> , VERITAS Collaboration
2007-2009	<u>Deputy Spokesperson</u> , VERITAS Collaboration
2005-2007	<u>Chair</u> , VERITAS Executive Committee
1997-2007	<u>PI</u> , Solar Tower Atmospheric Cherenkov Effect Experiment (STACEE)

Professional Activities

- *Reviewer (Journals):*
Nature, Science, Physical Review Letters, Physics Letters, Physical Review D, Astrophysical Journal, Astronomy and Astrophysics, Astroparticle Physics, Nuclear Instruments and Methods, Particle Data Group
- *Reviewer (Agencies):*
National Science Foundation (PHY, AST, OPP, INT)
Department of Energy (Office of Science)
NASA
Research Corporation
Cottrell Foundation
Guggenheim Foundation
U.S.-Israel Binational Science Foundation
Helmholtz Association (Germany)
Deutsche Forschungsgemeinschaft (Germany)
CNRS (France)
National Research Foundation (South Africa)
Tata Institute of Fundamental Research (India)
Swiss National Science Foundation (SNSF)
Institute for Cosmic Ray Research (ICRR), Japan
- Member: American Physical Society, American Astronomical Society

Professional Service (since 2000)

National Strategic/Roadmap Committees:

2012-16	<u>Committee on Astronomy and Astrophysics (CAA)</u> , Board on Physics and Astronomy, National Research Council, Washington D.C., USA.
2011	<u>Committee to Assess the Deep Underground Science and Engineering Laboratory (DUSEL)</u> , National Research Council, Washington DC.
2010-12	<u>Scientific Advisory Committee (SAC)</u> , <i>AStroParticle ERAnet (ASPERA)</i> , <i>The Roadmap for Astroparticle Physics in Europe</i> , Hamburg, Germany.

- 2009-10 Panel on Particle Astrophysics and Gravitation (PAG), *New Worlds, New Horizons in Astronomy and Astrophysics*, Astro2010: The Decadal Survey in Astronomy and Astrophysics, National Research Council, Washington D.C., USA.
- 2009 Particle Astrophysics Scientific Assessment Group (PASAG), Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), Washington D.C., USA.
- 2005 NASA Universe Exploration Strategic Roadmap Committee (SRC-8), NASA, Washington D.C.
- 2004 Chair, Science Assessment Group for Experiments in Non-Accelerator Physics (SAGENAP), Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), Washington D.C, USA.
- 2003 Reviewer, Connecting Quarks with the Cosmos, Eleven Science Questions for the New Century, Committee on the Physics of the Universe, National Research Council, Washington D.C, USA.
- 2003-07 Astronomy and Astrophysics Advisory Committee (AAAC), NSF, NASA, and DOE, Washington D.C, USA.
- 2003 High Energy Physics Facilities Committee, Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), Washington D.C., USA.
- 2002-04 High Energy Physics Advisory Panel (HEPAP), DOE and NSF, Washington D.C., USA.
- 2002 Neutrino Facilities Assessment Committee (NFAC), *Neutrinos and Beyond*, National Research Council, Washington D.C., USA.
- 2001 Long Range Planning for High Energy Physics, Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), DOE and NSF, Washington D.C., USA
- 2000-02 Scientific Assessment Group for Experiments in Non-Accelerator Physics (SAGENAP), DOE and NSF, Washington D.C., USA.
- 2000 Panel on High Energy Astrophysics from Space (HEAS), *Astronomy and Astrophysics in the New Millennium*, Decadal Survey in Astronomy and Astrophysics, National Research Council, Washington D.C., USA.
- 2000 Panel on Particle, Nuclear, and Gravitational Wave Astrophysics (PNGWA), *Astronomy and Astrophysics in the New Millennium*, Decadal Survey in Astronomy and Astrophysics, National Research Council, Washington D.C., USA.

Laboratory/Institute/Project Committees:

- 2024 IceCube Scientific Advisory Committee, Madison WI, USA.

- 2024 External Review Committee, Institute for Space-Earth Environmental (ISEE) Research, Nagoya University, Nagoya, Japan.
- 2019 External Review Committee, Institute for Cosmic Ray Research (ICRR), University of Tokyo, Kashiwa, Japan.
- 2012-17 Physics Research Committee (PRC), Deutsches Elektronen-Synchrotron (DESY) Hamburg, Germany.
- 2011 Review Committee, *Helmholtz Alliance for Astroparticle Physics – HAP*, Helmholtz Association, May 2011, Karlsruhe, Germany.
- 2011 Committee of Visitors (COV), NSF Astronomy (AST) Division, Washington DC.
- 2009 Five-Year Program Review, *Program Astroparticle Physics, Research Field Structure of Matter*, Helmholtz Association, Karlsruhe, Germany.
- 2008 Selection Committee, *GLAST Fellowship (Cycle 1) Program*, NASA, Washington D.C.
- 2005-08 Conseil Scientifique, Laboratoire Leprince Ringuet, Ecole Polytechnique, Palaiseau, France.
- 2005 Nominating Committee, Division of Astrophysics (DAS) of the American Physical Society (APS), Washington DC.
- 2003-04 Director's Review, Physics Division, Lawrence Berkeley National Laboratory (LBNL), Berkeley CA, USA.
- 2003-07 Gamma Ray Large Area Space Telescope (GLAST) User's Committee, NASA, Washington D.C, USA.
- 2003-07 Experimental Program Advisory Committee (EPAC), Stanford Linear Accelerator Center (SLAC), Stanford CA, USA.
- 2002-04 Universities Research Association (URA) Visiting Committee, Fermi National Accelerator Laboratory (FNAL), Batavia IL. USA,
- 2000 Committee of Visitors (COV), NSF Physics (PHY) Division, Washington D.C., USA.
- 2000 Portfolio Allocation Review (PAR), NSF Astronomy (AST) Division, Washington D.C., USA.

Conference Organization:

- 2024 Scientific Organizing Committee, *The 2nd LHAASO Symposium*, March 2025, Hong Kong, China.

- 2023 Scientific Organizing Committee, *The 1st LHAASO Symposium*, May 2023, Tianfu Cosmic Ray Research Center, Chengdu, China.
- 2019 Organizer, *Antideuteron 2019*, March 2019, Los Angeles CA, USA.
- 2019 International Advisory Committee, *International School on Astroparticle Physics (ISAPP) 2019, at the Pierre Auger Observatory*, March 2019, Malargue, Argentina.
- 2016 International Organizing Committee, *Science with the New Generation of High Energy Gamma-ray Experiments (SciNeGHE)*, October 2016, Pisa, Italy.
- 2016 Scientific Organizing Committee, *Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe*, COSPAR Event E1.20, August 2016, Istanbul, Turkey.
- 2016 International Advisory Committee, *Cosmic Ray International Seminar (CRIS 2016), New eyes on the Universe*, July 2016, Ischia, Italy.
- 2014 Organizer, *Antideuteron 2014: 1st Cosmic Ray Antideuteron Workshop*, June 2014, Los Angeles CA, USA.
- 2013 Session Organizer, *High Energy Cosmic Rays and their Propagation*, TeV Particle Astrophysics (TeVPA 2013), August 2013, Irvine CA, USA.
- 2012 Scientific Organizing Committee, *Second Cherenkov Telescope Array LINK Meeting*, November 2012, Buenos Aires, Argentina.
- 2012 Scientific Organizing Committee, *Gamma 2012, 5th Heidelberg International Symposium on High-Energy Gamma-ray Astronomy*, July 2012, Heidelberg, Germany.
- 2012 International Advisory Committee, *9th Workshop on Science with the New Generation of High Energy Gamma-ray Experiments (SciNeGHE 2012)*, June 2012, Lecce, Italy.
- 2006 International Organizing Committee, *VI Rencontres du Vietnam: Particle Astrophysics*, Hanoi, Vietnam, August 2006.
- 2005 Organizing Committee, *Towards a Future Ground Based Gamma Ray Observatory*, October 2005, Malibu CA, USA.
- 2005 International Advisory Committee, *Towards a Network of Atmospheric Cherenkov Detectors VII*, April 2004, Palaiseau, France.
- 2004 Organizing Committee, *2004 Meeting of the Division of Particles and Fields (DPF) of the American Physical Society (APS)*, August 2004, Riverside CA, USA.
- 2003 Session Organizer, *April Meeting of the American Physical Society (APS), Joint DAP/DPF Session*, April 2003, Philadelphia PA, USA.

- 2002 Scientific Advisory Committee, *International Symposium: The Universe Viewed in Gamma Rays*, September 2002, Kashiwa, Japan.
- 2002 Program Committee, *SPIE International Symposium on Astronomical Telescopes and Instrumentation*, August 2002, Waikoloa HI, USA.
- 2001 Organizing Committee, *Snowmass 2001, The Future of Particle Physics*, July 2001, Snowmass CO, USA.
- 2000-02 High Energy Neutrino Astrophysics Panel (HENAP), Particle and Nuclear Astrophysics and Gravitation Interaction Committee (PANAGIC).

Postdoctoral Research Associates:

(Most recent position given in parentheses)

- 2023- Yu (Carl) Chen, UCLA
- 2018-21 Sean Quinn (Software Engineer, Meta Corp)
- 2015-19 Ralph Bird (Staff Machine Learning Engineer, PagerDuty)
- 2012-15 Taylor Aune (Data Scientist, Climate Corporation)
- 2009-12 Pratik Majumdar (Associate Professor, SAHA Institute of Nuclear Physics)
- 2009-15 Isaac Mognet, (Research Scientist, Penn State University)
- 2005-10 Amanda Weinstein (Associate Professor, Iowa State University)
- 2002-06 Jeffrey Zweerink, (Associate Project Scientist, UCLA)
- 2000-02 Jim Hinton (Director, Max-Planck Institute fur Kernphysik, Heidelberg)
- 1997-99 Zoa Conner (Instructor, College of Southern Maryland)
- 1995-98 Mark Chantell (Teaching Staff, University of Chicago)
- 1994-97 Lucy Fortson (Professor, University of Minnesota)
- 1992-97 Brian Fick (Professor, Michigan Technical University)
- 1992-06 Kevin Green (Physics Instructor, University of Connecticut-Stamford).
- 1991-03 Corbin Covault (Professor, Case Western Reserve University)

Graduate Students (Ph.D. supervisor):

(Most recent position given in parentheses)

- Padrick Beggs Ph.D. Student, UCLA Physics
- Wenmeng (Nancy) Ph.D. Student, UCLA Astronomy
Ning
- Sydney Feldman Ph.D. Student, UCLA Physics
- James Ryan Ph.D. Astronomy 2022
“Dark Matter Searches With Gamma Rays from the Galactic Center Halo and Cosmic-Ray Antimatter,”
(Postdoc, SLAC National Laboratory)

Matt Buchovecky	Ph.D. Physics UCLA 2019 "Very High-Energy Gamma-Ray Emission from the Galactic Center with VERITAS" (Machine Learning Engineer, ZipRecruiter)
Alexis Popkow	Ph.D. Physics UCLA 2016 "Very High-Energy Astrophysical Processes in the Cygnus Region of the Milky Way" (Senior Systems Engineer, Echodyne)
Ken Chow	Ph.D. Physics UCLA 2010 "A Deep Survey of the Galactic Plane at Very High Energies," (private industry).
Ozlem Celik-Tinmaz	Ph.D. Physics UCLA 2008 "Observations of the Crab Nebula and Pulsar with VERITAS," (Analytics Principal Director, Accenture)
Alex Jarvis	Ph.D. Physics UCLA 2008 "Observations of Gamma-Ray Bursts by STACEE," (Lead Data Analyst, Glu Mobile)
Jennifer Carson	Ph.D. Astronomy, UCLA, 2005 "STACEE Observations of Markarian 421 above 100 GeV and a New Method for High-Energy Spectral Analysis." (Professor of Physics, Santa Monica College)
Scott Oser	Ph.D. Physics, Univ. of Chicago, 1999 "High Energy Gamma-Ray Observations of the Crab Nebula and Pulsar with the Solar Tower Atmospheric Cherenkov Effect Experiment." (Professor of Physics, University of British Columbia)
Joseph Fowler	Ph.D. Physics, Univ. of Chicago, 1998 "Composition and Spectrum of Cosmic Rays at the Knee Measured by the CASA-BLANCA Experiment." (Senior ARRA Fellow, NIST, University of Colorado)

Undergraduate Students (research supervisor):

(Most recent position given in parentheses)

Gregory Baldwin	UCLA undergraduate
Katherine Callahan	UCLA, B.S. Physics 2025 (Graduate Student, UCI)
Ryan Morokutti	UCLA, B.S. Physics 2025 (Graduate Student, UCB)

Anna Kinderman	UCLA, B.S. Physics 2024 (Graduate Student, UCSC)
John Dickson	UCLA, B.S. Physics 2023 (Graduate Student, University of Texas)
Alina Kochocki	UCLA, B.S. Physics 2021 (Graduate Student, Michigan State University)
Takeru Hayashi	UCLA, B.S. Astrophysics 2018 (Research & Development Engineer II, UCLA)
Richie Nagi	UCLA, B.S. Physics 2015 (Software Developer, Lawrence Livermore National Laboratory)
Shuoguang Liu	UCLA CSST summer program 2014 (Graduate student, University of Chicago)
William Johnson	UCLA, B.S. Physics 2013 (Science teacher, Futures Academy)
Sabrina Hong	UCLA, B.S. Astrophysics 2013 (Senior Quantum Hardware Engineer, Google)
Brandon Maupin	UCLA, B.S. Physics 2013 (Technology & Engineering Education, Council Rock School District)
Erika Zetterlund	UCLA REU summer program 2012) (PhD 2018 from University of Colorado)
Jacob Schwartz	UCLA, B.S. Physics 2012 (Staff Research Physicist, Princeton Plasma Physics Laboratory)
Eylene Pirez	UCLA, B.S. Physics 2011 (Head of Digital Media and Research, Geodesic Pictures LLC)
Laura Marchand	UCLA, B.S. Physics 2010 (Principal, ME Engineers)
Nickolas McColl	UCLA, B.S. Physics 2009 (Software Engineer, Google)
Daniel Margala	UCLA, B.S. Physics 2009 (Research Software Engineer, National Energy Research Scientific Computing Center)
Jennifer Sierchio	UCLA REU summer program 2008 (Technical Group Lead, BAE Systems Fast Labs)
Jennifer Helsby	UCLA REU summer program 2007 (Principal Research Engineer, Freedom of the Press Foundation)

Cyrus Rustomji	UCLA, B.S. Physics 2007 (Chief Executive Officer, South 8 Technologies)
William Gignac	Internship at UCLA, 2006 (Postdoctoral Fellow, Georgia Institute of Technology)
Jeff Dunworth	UCLA, B.S. Physics 2005 (Postdoctoral Assistant Professor, University of Michigan)
Kathryn Grimm	UCLA, B.S. Physics 2004 (Assistant Professor, Cal State University East Bay)
Jason Minamora	UCLA, B.S. Physics 2003 (no known recent position)
Susan Channels	UCLA, B.S. Physics 2002 (no known recent position)
Nicolas Rassat	Visiting graduate student from France 2002 (no known recent position)
Thomas Fishman	University of Chicago, B.A. Physics 2002 (Platform Strategist, Global Creative Strategy)
Eugene Chae	University of Chicago, B.A. Physics 2002 (Principal Data Scientist, Kognitiv Corporation)
Daniel Schuette	University of Chicago, B.A. Physics 2000 UCLA research assistant 2001 (Technical staff, MIT Lincoln Laboratories)
Thomas Brennan	University of Chicago, B.A. Physics 1999 (Assistant Professor, Ferris State University)
Antonino Miceli	University of Chicago, B.A. Physics 1998 (Group Leader, Argonne National Laboratory)
Matthew Pritchard	University of Chicago, B.A. Physics 1997 (Professor, Cornell University)
Hugh Kim	University of Chicago, B.A. Physics 1996 (Principal/Owner, Greyson Capital Management)
Zandra Kelley	University of Chicago, B.A. Physics 1995 (M.D. Family Medicine, Lawrence General Hospital)
Peter Rauske	University of Chicago, B.A. Physics 1994 (Research Analyst, TradeLink)
Sunil Golwala	University of Chicago, B.A. Physics 1993 (Professor, California Institute of Technology)

Peter Burke University of Chicago, B.A. Physics 1992
(Professor, University of California, Irvine)

External Reviewer for Ph.D. or Habilitation Theses

Joaquim Palacio Philosophiae Doctor (Ph.D.) 2018
Indirect Dark Matter Searches on the Triangulum-II Dwarf Spheroidal Galaxy and the Perseus Galaxy Cluster with the MAGIC Telescopes
Institut de Fisica d'Altes Energies (IFAE) and Universitat Autònoma de Barcelona (UAB), Barcelona, Spain
President of Examining Committee

Riccardo Munini Tesi Dottorato (Ph.D.), 2016
Solar Modulation of Cosmic Ray Electrons and Positrons Measured by the PAMELA Experiment during the 23rd Solar Minimum
Facoltà di Scienze Matematiche, Fisiche e Naturali
University of Trieste, Trieste, Italy

Pierre Brun Habilitation a Diriger les Recherches (H.D.R.), 2014
The High-Energy Universe as a Laboratory for Particle Physics
Université Paris VII, Paris, France

Berrie Giebels Habilitation a Diriger les Recherches (H.D.R.), 2011
A Contribution to Gamma-ray Astronomy of GeV-TeV Active Galaxies with Fermi and H.E.S.S.
Université Paris Sud 11, Orsay, France

Mathieu de Naurois These de Doctorat (Ph.D.), 2000
L'Experience Celeste: Ouverture d'une Nouvelle Fenetre d'Observation entre 20 GeV et 300 GeV
Université Paris VI, Paris, France

Berrie Giebels These de Doctorat (Ph.D.), 1998
Contribution a la Reconversion d'une Centrale Solaire en un Vaste Detecteur pour l'Astronomie Gamma
Université de Bordeaux 1, Bordeaux, France