

CURRICULUM VITAE

NAME: Yoshiharu Omura (大村善治)
PLACE / DATE OF BIRTH: Kyoto, 19 July 1957
NATIONALITY: Japanese
PRESENT POSITION: Project Professor / Emeritus Professor
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HISTORY OF EMPLOYMENT AND VISITING POSITIONS:

- UCLA/IGPP, Visiting Research Staff (05-08/1983)
- Kyoto University / Dept. Elec. Eng., Research Associate (1985-1988)
- Kyoto University / RASC, Research Associate (1988-1989)
- British Antarctic Survey, Visiting Scientist (07-08/1988)
- NASA/GSFC, NRC Senior Research Associate (07/1991- 07/1992)
- Kyoto University / RASC, Professor (2000-2004)
- JAXA / ISAS, Visiting Professor (2006-2012)
- Kyoto University /RISH, Professor (2000-2023)
- Auburn University / Physics Department, Visiting Research Scholar (03-05/2025)
- Kyoto University / RISH, Project Professor / Emeritus Professor (2023 – present)
- Macau University of Science and Technology, Distinguished Guest Professor (06/2024 – present)

DEGREES:

- Bachelor of Engineering, Kyoto University, 1980
- Master of Engineering, Kyoto University, 1982
- Ph.D (Doctor of Engineering), Kyoto University, 1985

RESEARCH EXPERIENCE:

- Nonlinear wave-particle interactions in space plasmas, 1981 - present
- Remote sensing of tropical forests by microwaves, 2011 - present
- Developing electromagnetic particle simulation codes (KEMPO1&2), 1990 - present
- Particle and wave data analysis of Geotail spacecraft, 1997-1999
- Developing an MHD simulation code and ray tracing of plasma waves, 1991-1992
- Developing a hybrid simulation code for study of heavy ion acceleration, 1983-1988

HONORS:

- Award for the best quality paper presented at American Geophysical Union (AGU) Chapman conference on Plasma Waves and Instabilities in Magnetospheres and at Comets, Oct. 12-16, 1987
- Young Scientist Award of URSI, 1990
- Zeldovich Award of Committee on Space Research (COSPAR), Commission D, 1992

- Tanakadate Award of Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS), 1996
- Science and Technology Award, presented by Minister of Culture, Sports, Science, and Technology in Japan, 2006
- Asia Oceania Geosciences Society, Solar & Terrestrial Sciences Section, Distinguished Lecturer, 2009
- Appleton Prize of URSI (Citation: For significant contributions to nonlinear wave-particle interaction theory, simulations of chorus and ion cyclotron emissions and the associated acceleration and precipitation of relativistic electrons in the radiation belts), 2017
- Academician in Basic Science of International Academy of Astronautics, 2019
- Fellow, American Geophysical Union, 2022
- Earth, Planets and Space, Excellent Paper Award, 2024

MEMBERSHIPS:

1. American Geophysical Union (AGU)
2. Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS)
3. Japan Geoscience Union (JpGU),
5. Asia Oceania Geosciences Society (AOGS)
6. International Academy of Astronautics (IAA)

SERVICE TO THE COMMUNITY:

- Vice Chair of commission H (Waves in Plasmas) of URSI (2005-2008)
- Chair of Commission H of URSI (2008-2011)
- Chair of Long Range Planning Committee of URSI (2011-2014)
- President of Space and Planetary Science Section of Japan Geoscience Union (JpGU) (2012-2013)
- Associate Editor of Journal of Geophysical Research Space Physics (2010-2014)
- President, Society of Geomagnetism and Earth, Planetary and Space Sciences (2019-2021)
- President of Solar & Terrestrial Sciences Section of AOGS (2020-2024)

PREVIOUS EXPERIENCE IN ORGANIZING SCIENTIFIC MEETINGS:

- Chairman of Local Organizing Committee of the 4th International School for Space Simulations (ISSS-4), 1992, Kyoto and Nara, Japan
- Chairman of International Program Committee of the 5th International School for Space Simulations (ISSS-5), 1995, Kyoto, Japan
- Chairman of Scientific Program Committee of The First S-RAMP Conference, 2000, Sapporo, Japan
- Chairman of LOC of the 7th International School for Space Simulations (ISSS-7), 2005, Kyoto, Japan
- Chairman of Scientific Program Committee of International CAWSES Symposium, 2007, Kyoto, Japan.
- Chairman of International Program Committee of ISSS-11, 2013, Zhongli, Taiwan
- Chairman of LOC of the 9th VERSIM Virtual Meeting, November 2020, Kyoto, Japan

PUBLICATION RECORD:

239 publications with more than 9300 total citations in Web of Science and 12400 in Google Scholar, (Web of Science h-index 52, Google Scholar h-index 60), Publons ID: P-8565-2014 / ORCID ID: 0000-0002-6683-3940 / Google Scholar: Yoshiharu Omura