

Curriculum Vitae

Keiji Hayashi

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Contact information:

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Research experiences and employments:

March 2019 ~ present

Research Scientist, Northwest Research Associates, CO, USA

March 2019 ~ present

Visiting scholar, HEPL, Stanford University, CA, USA

July 2018 ~ Feb. 2019

Visiting scholar (associate professor), National Astronomical Observatories, Beijing, China

April 2018 ~ March 2019

Science Research Professional, HEPL, Stanford University, CA, USA

July 2016 ~ June 2018

Foreign expert fellow, National Space Science Center, CAS, Beijing, China

April 2016 ~ March 2018

Collaborative research fellow, ISEE, Nagoya University, Aichi, Japan

October 2015 ~ March 2016

Assistant professor (designated), Institute of Space- Earth Environmental Research (ISEE), Nagoya University, Aichi, Japan

April 2015 ~ September 2015

Assistant professor (designated), Solar-Terrestrial Environment Laboratory (STEL), Nagoya University, Aichi, Japan

April 2014 ~ March 2015:

Visiting (associate) professor, National Astronomical Observatories of China, Chinese Academy of Sciences (CAS), Beijing, China

Jan. 2003 ~ April 2014:

Research Associate, Solar Physics Group, W.W. Hansen Experimental Physics Laboratory (HEPL), Stanford University, CA, USA

April 2000 ~ Jan. 2003:

Postdoctoral fellow, Solar Terrestrial Environment Lab., Nagoya University, Japan

April 1998 ~ March 2000:

Postdoctoral fellow, Communication Research Laboratory, Ministry of Posts and Telecommunications, Japan

Education:

Ph.D. in Science, March 1998

Department of Astronomy, School of Science, University of Tokyo, Tokyo, Japan,

Dissertation: "Nonlinear Dynamics of Interplanetary Magnetic Field and Solar Wind Flow"

M.Sci. March 1995

Department of Astronomy, School of Science, University of Tokyo, Tokyo, Japan, Master's Thesis: "The dynamics of the global solar magnetic field and the solar wind"

B.Sci. March 1993

Department of Astronomy, School of Science, University of Tokyo, Tokyo, Japan

Professional membership:

International Astronomical Union (2012~), Solar Physics Division of American Astronomical Society (2005~), American Geophysical Union (2001~), Astronomical Society of Japan (1992~)

Services to research community:

For peer-reviewed Journal:

Astrophysical Journal, ApJ Letter, Solar Physics, Journal of Geophysical Research, Geophysical Research Letters, Journal of Atmospheric and Solar-Terrestrial Physics, Frontier Astronomy and Space Science, and so on..

For proposal review process:

Electronic/mail-in review process for NSF and NASA, and NASA review panel.

Research skills and experiences:

Extensive knowledge, skills and experience on magnetohydrodynamics and plasma physics

Experiences in analysis of Stokes vector polarimetry (of SDO/HMI) and image, spectrum and signal data (such as SOHO/EIT, SDO/AIA; OMNI, COHOweb; WSO, SOLIS, GONG; IPS) in helio/solar-physics.

Using Super-computers (at NASA/Ames research center, and Nagoya University, Japan)

Other skills:

Computing: FORTRAN, C, OpenMP, MPI, IDL

General in computer: MS office files (word, excel and powerpoint), html, Linux scripts, html, LaTeX