

Tatsuhiro YOKOYAMA

Personal Information:

Nationality: Japan
Date of birth: August 24, 1976
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EDUCATION

- **Ph. D. of Informatics:** Graduate School of Informatics, Kyoto University, Kyoto, Japan March 2004
- **Master of Informatics:** Graduate School of Informatics, Kyoto University, Kyoto, Japan March 2001
- **Bachelor of Engineering:** Faculty of Engineering, Kyoto University, Kyoto, Japan March 1999

AWARDS

- **JPGU Nishida Prize for Promotion of Geo- and Planetary Science** June 2021
- **COSPAR Zeldovich Medal Scientific Commission C** July 2012
- **The 27th SGEPS Obayashi Award** September 2007
- **The 22nd Inoue Research Award for Young Scientist** February 2006

CAREER HISTORY

- **Associate Professor** Nov. 2018 – present
Research Institute for Sustainable Humanosphere, Kyoto University, Japan
- **Researcher / Senior Researcher** Apr. 2013 – Nov. 2018
National Institute of Information and Communications Technology, Japan
- **Mission Research Fellow** Nov. 2011 – Mar. 2013
Research Institute for Sustainable Humanosphere, Kyoto University, Japan
- **Visiting Assistant Research Scientist** Apr. 2010 – Oct. 2011
NASA Goddard Space Flight Center, USA
- **JSPS Postdoctoral Fellow for Research Abroad** Apr. 2008 – Mar. 2010
Earth and Atmospheric Sciences, Cornell University, USA
- **JSPS Research Fellow (PD)** Apr. 2005 – Mar. 2008
Solar-Terrestrial Environment Laboratory, Nagoya University, Japan
- **Postdoctoral Research Associate** Apr. 2004 – Mar. 2005
Research Institute for Sustainable Humanosphere, Kyoto University, Japan
- **JSPS Research Fellow (DC2)** Apr. 2002 – Mar. 2004
Radio Science Center for Space and Atmosphere, Kyoto University, Japan

SELECTED PUBLICATIONS

(Total publications 101 papers; Total Citation 2090 times; h-index 26; Scopus)

1. Yokoyama, T., R. Takagi, and M. Yamamoto, Solar and geomagnetic activity dependence of 150-km echoes observed by the Equatorial Atmosphere Radar in Indonesia, *Earth, Planets and Space*, **74**, 113, doi:10.1186/s40623-022-01675-6, 2022.
2. Liu, P., T. Yokoyama, W. Fu, and M. Yamamoto, Statistical analysis of medium-scale traveling ionospheric disturbances over Japan based on deep learning instance segmentation, *Space Weather*, **20**, e2022SW003151. doi:10.1029/2022SW003151, 2022.
3. Yokoyama, T., H. Jin, H. Shinagawa, and H. Liu, Seeding of equatorial plasma bubbles by vertical neutral wind, *Geophys. Res. Lett.*, **46**, 7088-7095, doi:10.1029/2019GL083629, 2019.
4. Yokoyama, T., A review on the numerical simulation of equatorial plasma bubbles toward scintillation evaluation and forecasting, *Prog. Earth Planet. Sci.*, **4**, 37, doi:10.1186/s40645-017-0153-6, 2017.
5. Yokoyama, T., and C. Stolle, Low and midlatitude ionospheric plasma density irregularities and their effects on geomagnetic field, *Space Sci. Rev.*, **206**, 495-519, doi:10.1007/s11214-016-0295-7, 2017.
6. Yokoyama, T., H. Jin, and H. Shinagawa, West wall structuring of equatorial plasma bubbles simulated by three-dimensional HIRB model, *J. Geophys. Res. Space Physics*, **120**, 8810-8816, doi:10.1002/2015JA021799, 2015.
7. Yokoyama, T., H. Shinagawa, and H. Jin, Nonlinear growth, bifurcation and pinching of equatorial plasma bubble simulated by three-dimensional high-resolution bubble model, *J. Geophys. Res. Space Physics*, **119**, 10,474-10,482, doi:10.1002/2014JA020708, 2014.
8. Yokoyama, T., D. L. Hysell, Y. Otsuka, and M. Yamamoto, Three-dimensional simulation of the coupled Perkins and E_s layer instabilities in the nighttime midlatitude ionosphere, *J. Geophys. Res.*, **114**, A03308, doi:10.1029/2008JA013789, 2009.