

Name: Ryuho Kataoka

Birth: 1976.12.12

Contact:

National Institute of Polar Research

10-3 Midori-Cho, Tachikawa, Tokyo 190-8518 JAPAN

Phone: +81-42-512-0631

Fax: +81-42-528-3499

E-mail: kataoka.ryuho@nipr.ac.jp



Academic Background:

1995/04-1999/03 B.Sc. Physics, Tohoku University, Japan

1999/04-2001/03 M.Sc. Physics, Tohoku University, Japan

2001/04-2004/03 D.Sc. Physics, Tohoku University, Japan

Career:

1999/09-1999/11 Visiting Researcher, Bell Laboratories, Lucent Technologies, USA

2000/07-2000/09 Visiting Researcher, Bell Laboratories, Lucent Technologies, USA

2004/04-2007/03 JSPS Postdoc Researcher at:

2004/04-2006/03 National Institute of Information and Communication Technology, Japan

2005/03-2006/02 NASA Goddard Space Flight Center, USA

2006/04-2007/03 Solar-Terrestrial Environment Laboratory, Nagoya University, Japan

2007/04-2009/07 Special Postdoctoral Researcher, RIKEN, Japan

2009/08-2013/06 Assistant Professor, Tokyo Institute of Technology, Japan

2013/07-present Associate Professor, National Institute of Polar Research, Japan

2013/07-present Associate Professor, SOKENDAI, Japan (concurrent)

2021/09-present Visiting Researcher, Okinawa Institute of Science and Technology (sabbatical)

Academic Societies:

1999/12-present American Geophysical Union (AGU)

2001/04-present Society of Geomagnetism and Earth, Planetary and Space Science

2004/04-present The Astronomical Society of Japan

2017/09-present The Society of Instrument and Control Engineers

Awards:

1999/12 Outstanding Student Paper Award, AGU Fall Meeting

2004/03	President Award, Tohoku University, JAPAN
2011/09	Excellence in Refereeing, Space Weather, AGU
2015/04	The Young Scientists' Prize, The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, JAPAN
2016/04	Excellence in Refereeing, Geophysical Research Letters, AGU

Teaching:

Spring 2013-2020, Plasma Physics, SOKENDAI

Fall 2013-2020, Auroral Physics, SOKENDAI

Participation in Academic Education:

Supervisor, doctoral thesis, Yoko Fukuda (2014-2017), The University of Tokyo (visiting student)

Supervisor, doctoral thesis, Herbert Akihito Uchida (2015-2020), SOKENDAI

Supervisor, doctoral thesis, Kiyoka Murase (2019-present), SOKENDAI

Scientific Expert Positions:

2011/08-2014/03 Space Weather (AGU journal), Editorial Advisory Board

2011/10-2015/09 SCOSTEP, Science Discipline Representatives

2014/04-2018/12 VarSITI ISEST/Minimax24, Japanese Domestic Representatives

2015/01-2017/03 NASA LWS Institute GIC Working Group, Member

2018/01-2020/12 ISSI Auroral Physics, Co-convener

Conference Organizing:

JpGU 2015-2021, Space Weather and Space Climate International Session, Convener

Principal Investigator:

2022- AuroraX Project (auroral imager network in Antarctica)

2015-2020 Aurora4D Project (interdisciplinary collaboration with Japanese literature)

2010-2013 Aurora3D Project (auroral stereoscopy by DSLR cameras)

Research Funding:

2017-2019 JSPS KAKENHI 17K05671, ¥4420K (grand minimum modeling)

2013-2014 Yamada Science Foundation, ¥3000K (high-speed auroral imaging)

2011-2013 JSPS KAKENHI 23540521, ¥4810K (WASAVIES)

2010-2012 Hoso Bunka Foundation, ¥3300K (auroral stereoscopy)

2008-2009 JSPS KAKENHI 20740286, ¥2340K (CME MHD modeling)

Publications: ORCID 0000-0001-9400-1765

More than 150 peer-reviewed papers (>30 as first author, H-index: 27)

The list available at: <https://publons.com/researcher/3511908/ryuho-kataoka/>

“Auroral Physics”, Space Sciences Series of ISSI, 78, 2021 (review book, co-editor)

“Extreme Space Weather”, Elsevier, 2021, in press (reference book, author)

Invited Talks: (last 10 years)

“Corotating interaction regions, magnetic storms, and radiation belts”, JpGU 2018, May 20-24, 2018.

“Ground-based high-speed imaging of aurora”, International Workshop on Advances and Perspectives in Auroral Plasma Physics, Aussois, France, 1-5 April 2013.

“Nebula Winter Hypothesis”, Society of Molecular Biology and Evolution, Kyoto, 30 July 2011.

“Modeling and forecasting geomagnetically induced currents in Hokkaido, Japan”, AGU Chapman conference on Dynamics of the Earth's Radiation Belts and Inner Magnetosphere, St. John's, Newfoundland and Labrador, Canada, 17-22 July 2011.

“High-speed imaging observations of flickering aurora and breakup aurora”, IUGG2011, Melbourne, Australia, 28 June - 7 July 2011.

Observation Trips: (last 10 years)

2015/03/09-16 Artificial auroral experiment, Kebo, Finland

2014/11/16-29 Auroral high-speed imaging, Poker Flat, Alaska

2014/04/07-12 Auroral high-speed stereo imaging, Poker Flat, Alaska

2014/01/26-02/06 Auroral high-speed stereo imaging, Poker Flat, Alaska

2013/07/16-18 Tree ring experiment, Yakushima, Japan

2013/03/24-29 Auroral stereo imaging, Poker Flat, Alaska

2013/02/27-03/02 Tree ring experiment, Yakushima, Japan

2012/12/09-14 Auroral stereo imaging, Poker Flat, Alaska

2012/09/23-29 Auroral high-speed imaging, Athabasca, Canada

2012/05/09-12 Tree ring experiment, Yakushima, Japan

2012/04/07-12 Auroral stereo imaging, Poker Flat, Alaska

2012/03/17-23 Auroral stereo imaging, Poker Flat, Alaska

2011/10/23-30 Auroral ultra-high-speed imaging, Poker Flat, Alaska

2011/04/03-07 Auroral high-speed imaging, Poker Flat, Alaska

2011/02/20-24 Geological investigation, Inuyama, Japan

2011/02/26-03/07 Auroral high-speed imaging, Poker Flat, Alaska

2011/01/26-29 Tree ring experiment, Yakushima, Japan