

# Masahiro Oroku

Curriculum Vitae, April 2025

E-mail: oroku.masahiro@gmail.com  
Web: ororoku.github.io

---

## CAREER

Oct 2020 - Present Researcher, Advanced Technology Lab, Recruit Co., Ltd.  
Apr 2016 - Sep 2020 Data Scientist, Recruit Co., Ltd.  
Nov 2013 - Mar 2014 Technical Staff, Institute of Innovation Research, Hitotsubashi University  
Apr 2011 - Mar 2013 Research Fellow(DC2), Japan Society for the Promotion of Science

---

## EDUCATION

Mar 2016	Master of Arts in Economics, The University of Tokyo Thesis: Academia-Industry Relationships: Analysis of Non-Patent Citations
Mar 2013	Doctor of Science in Physics, The University of Tokyo Thesis: Study on a Precise Beam Size Monitor Using Laser Interferometer
Mar 2009	Master of Science in Physics, The University of Tokyo Thesis: Experimental Study of Gamma-ray Detector for the Shintake Beam-size Monitor
Mar 2007	Bachelor of Science in Physics, The University of Tokyo

---

## FIELDS OF INTEREST

Innovation and knowledge production, particle physics experiment

---

## WORKING PAPERS

1. K. Oikawa, M. Oroku, M. Nirei, "Economic Growth through Basic Research by Firms: A Science Linkage Approach" *RIETI Discussion Paper Series*, 24-E-013, 2024.
2. M. Oroku, "Are firms able to take advantage of academic advances?," *RIETI Discussion Paper Series*, 24-E-036, 2024.

---

## PUBLISHED ARTICLES

1. J. Yan, Y. Yamaguchi, Y. Kamiya, S. Komamiya, M. Oroku, T. Okugi, N. Terunuma, K. Kubo, T. Tauchi, J. Urakawa, "Measurement of nanometer electron beam sizes with laser interference using Shintake Monitor," *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 740, pp. 131–137, 2014.
2. P. Bambade, M. Oroku, N. Terunuma, J. Urakawa, S. Araki *et al.* (ATF Collaboration), "Present status and first results of the final focus beamline at the KEK Accelerator Test Facility," *Physical Review Special Topics - Accelerators and Beams*, vol. 13, p. 042801, 2010.
3. T. Suehara, M. Oroku, T. Yamanaka, H. Yoda, T. Nakamura, Y. Kamiya, Y. Honda, T. Kume, T. Tauchi, T. Sanuki, and S. Komamiya, "Design of a nanometer beam size monitor for ATF2," *Nuclear Instruments and Methods in Physics Research Section A*, vol. 616, no. 1, pp. 1–8, 2010.

---

## PRESENTATIONS

### Refereed

1. M. Oroku *et al.*, “The nanometer beam size monitor (Shintake monitor) at ATF2,” in *IEEE Nuclear Science Symposium, Medical Imaging Conference, and Room Temperature Semiconductor Detector Workshop (NSS/MIC/RTSD)*, Knoxville, Tennessee, USA, Nov. 2010. (Oral Presentation)
2. M. Oroku *et al.*, “Gamma detector for the Shintake monitor at ATF2, the ILC test beam facility,” in *IEEE Nuclear Science Symposium, Medical Imaging Conference, and Room Temperature Semiconductor Detector Workshop (NSS/MIC/RTSD)*, Dresden, Germany, Oct. 2008. (Poster Presentation)

### Not Refereed

1. M. Oroku and M. Nirei, “Structural linkage between academic fields and industrial classification: Analysis of non-patent citations,” Workshop on Economic Growth Analysis and Evaluation of Science, Technology and Innovation Policies, Shonan Village Center, Hayama, Japan, Jun. 2015.
2. M. Oroku *et al.*, “IPBSM: hardware upgrade and future plan,” 14th ATF2 Project Meeting, KEK, Tsukuba, Japan, Jun. 2012.
3. M. Oroku *et al.*, “IPBSM: plans and strategy to make the IPBSM operationally reliable,” 13th ATF2 Project Meeting, KEK, Tsukuba, Japan, Jan. 2012.
4. M. Oroku *et al.*, “IP-BSM status and plan: beamtime result in Nov. and Dec. 2010,” ATF Project Meeting, SLAC, California, USA, Jan. 2011.
5. M. Oroku *et al.*, “Measurement of nanometer-scale beam size by the Shintake monitor,” International Conference on Physics in Intense Fields (PIF2010), KEK, Tsukuba, Japan, Nov. 2010.
6. M. Oroku *et al.*, “Discussion of testing and planning for Shintake monitor in ATF2; including discussion of gamma detectors,” Fifth ATF2 Project Meeting, KEK, Tsukuba, Japan, Dec. 2007.
7. M. Oroku, CMS CASTOR group, “Beam test results-HD1 response with old and new cut quartz plates,” CMS Week, CERN, Geneva, Switzerland, Sep. 2007.

### Domestic

1. M. Oroku *et al.*, Annual Meeting, The Physical Society of Japan (JPS), Hiroshima University, Japan, Mar. 2013.
2. M. Oroku *et al.*, Annual Meeting, The Physical Society of Japan (JPS), Niigata University, Japan, Mar. 2011.
3. M. Oroku *et al.*, Annual Meeting, The Physical Society of Japan (JPS), Kyushu University, Japan, Sep. 2010.
4. M. Oroku *et al.*, Annual Meeting, The Physical Society of Japan (JPS), Okayama University, Japan, Mar. 2010.
5. M. Oroku *et al.*, Annual Meeting, Particle Accelerator Society of Japan, J-Parc, Japan, Autumn 2009.
6. M. Oroku *et al.*, Annual Meeting, The Physical Society of Japan (JPS), Rikkyo University, Japan, Mar. 2009.
7. M. Oroku *et al.*, Annual Meeting, The Physical Society of Japan (JPS), Kinki University, Japan, Mar. 2008.

---

## GRANTS AND SCHOLARSHIPS

Sep 2013 - Sep 2014 Research Assistant(RA) of Hitotsubashi University, Japan

Apr 2010 - Mar 2011 Research Assistant(RA) of KEK, Japan

Apr 2009 - Mar 2011 Research Assistant(RA) of the University of Tokyo, Japan

Oct 2007 - Mar 2008 Teaching Assistant(TA) of the University of Tokyo, Japan

Jul 2007 - Oct 2007 CERN summer student, Geneva, Switzerland

---

## ACADEMIC SERVICES

**Referee experience**   The Japanese Society for Artificial Intelligence