Yuuka Kanakubo

POSTDOCTORAL RESEARCHER/PROJECT RESEARCHER AT UNIVERSITY OF JYVÄSKYLÄ

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Work Experience_

Department of Physics, University of Jyväskylä

Jyväskylä, Finland Oct 2022 - present

Postdoctoral Researcher

· Research work in the Centre of Excellence in Quark Matter

• Principal Investigator: Kari Eskola

Japan Society for the Promotion of Science

Tokyo, Japan

Research Fellowship for Young Scientists (DC1)

Apr 2020 - Sep 2022

• Research protect: Study on transport properties of quark-gluon plasma with integrated dynamical framework (20J20401)

• Budget amount: 3,400,000 JPY

Faculty of Science and Technology, Sophia University

Tokyo, Japan Apr 2018 - Mar 2020

Research Assistant

• Teaching assistant at Physics Exercise course

Mentoring and supervising bachelor students at Hadron Physics group at Sophia University

Education

Sophia University Tokyo, Japan

Doctor's degree in physics

Oct 2019 - Sep 2022

Graduate School of Science and Technology

· Nuclear Physics, supervisor: Tetsufumi Hirano

Sophia University Tokyo, Japan

Master's degree in physics

Apr 2018 - Sep 2019

• Early graduation by a half year

Graduate School of Science and Technology

· Nuclear Physics, supervisor: Tetsufumi Hirano

Sophia University Tokyo, Japan Apr 2014 - Mar 2018 Bachelor degree

• Department of Materials and Life Sciences, Faculty of Science and Technology

• Finished systematic program of English for science

Community Service

Peer Review Referee

- Physical Review C
- Progress of Theoretical and Experimental Physics
- European Physical Journal Web of Conferences

Achievements

Awards

Young Scientist Award of the Physical Society of Japan, Awarded by Physical Society of Japan. 2023

https://www.jps.or.jp/activities/awards/wakate.php

Yagi Award, Awarded by RIKEN Interdisciplinary Theoretical and Mathematical Sciences Program. 2023

https://ithems.riken.jp/en/about/yagi-award

2022 **Best student presentation award**, Awarded by Physical Society of Japan, Okayama, Japan

Nuclear Physics A Elsevier Young Scientist Awards, The best theory talk at the 28th International 2019

Conference on Ultra-relativistic Nucleus-Nucleus Collisions (Quark Matter 2019), Awarded by Elsevier

2019 Global Award for Young Women Researchers, Awarded by Sophia University

Publications (Highlighted papers)

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- M. Kuha, J. Auvinen, K. J. Eskola, H. Hirvonen, Y. Kanakubo, H. Niemi, arXiv: 2406.17592, MC-EKRT:
- Monte-Carlo event generator with saturated minijet production for initializing 3+1 D fluid dynamics in high energy nuclear collisions
- Y. Kanakubo, Y. Tachibana, T. Hirano, Phys. Rev. C 106 (2022) 5, 054908, Nonequilibrium components in the region of very low transverse momentum in high-energy nuclear collisions
- in the region of very low transverse momentum in high-energy nuclear collisions

 Y. Kanakubo, Y. Tachibana, T. Hirano, Phys. Rev. C105 2, 024905 (2022), Interplay between core and corona components in high-energy nuclear collisions

Selected as an

- Y. Kanakubo, Y. Tachibana, T. Hirano, Phys. Rev. C101 no.2, 024912 (2020), Unified description of hadron yield ratios from dynamical core-corona initialization
- Y. Kanakubo, M. Okai, Y. Tachibana, T. Hirano, PTEP 2018, no. 12, 121D01 (2018), Enhancement of strange baryons in high-multiplicity proton-proton and proton-nucleus collisions

Outreach

- Apr 2024 Column: Introduction of Alumni, Sophia Sci-Tech No.35 (2024), Sophia Sci-Tech back number (available in Japanese)
- Mar 2024 Column: Letters from abroad, Genshikaku Kenkyu vol. 68 no. 2 (2024), & Genshikaku-kenkyu, back number (available in Japanese)

Presentations

Invited talks

- Memorial talk on the 25th Young Scientist Award, The Physical Society of Japan the 79th Annual Meeting (online),

 Oct 2023

 Colloquium "Unified description of relativistic nuclear collisions for different system sizes", Yukawa Institute for Theoretical Physics (YITP) at Kyoto University, Kyoto, Japan

 Sep 2023

 Strong-NA7 workshop & HFHF Theory Retreat, Sicily, Italy
- Sep 2023 The XXX-th International Conference on Ultra-relativistic Nucleus-Nucleus Collisions (Quark Matter 2023), Plenary talk, Texas, US
- Jun 2023 The VII-th International Conference on the Initial Stages of High-Energy Nuclear Collisions (Initial Stages 2023), Plenary talk, Copenhagen, Denmark
- May 2023 Workshop "Exploring Quark-Gluon Plasma through soft and hard probes", Belgrade, Serbia
- May 2023 11th Edition of the Large Hadron Collider Physics Conference (LHCP 2023), Belgrade, Serbia
- Apr 2023 The 9th Asian Triangle Heavy-Ion Conference (ATHIC 2023), Plenary talk, Hiroshima, Japan
- Feb 2023 The 4th edition of International Workshop on QCD Challenges from pp to AA collisions, Padova, Italy
- The 8th International Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAOGP-2023), Plenary talk, Puri, India

Jul 2024 ALICE week, Plenary: 6 AIM session (online), CERN, Geneva, Switzerland

- Feb 2023 Emergent Topics in Relativistic Hydrodynamics, Chirality, Vorticity and Magnetic field, Puri, India
- Nov 2022 PHENOmenal Workshop (ALICE experiment and Monte-Carlo event generator meeting), CERN, Geneva, Switzerland
- Jan 2022 RBRC Workshop: Physics Opportunities from the RHIC Isobar Run (online), RIKEN Brookhaven National Laboratory, New York, US
- Sep 2021 Workshop on the modeling of the QGP formation and QCD phase transition (online), University of Tsukuba, Tsukuba, Japan
- Apr 2021 The 9th Workshop of the American Physical Society Topical Group on Hadronic Physics (online), Sacramento, US
- Feb 2021 Opportunities of OO and pO collisions at the LHC (online), (talk was given by collaborator due to sick), CERN, Geneva, Switzerland
- Nov 2019 The 11th International Workshop on Multiple Partonic Interactions at the LHC, Prague, Czech
- Feb 2019 Nagoya mini workshop "Phenomenology and experiments at RHIC and the LHC", Nagoya University, Nagoya, Japan

Invited seminars

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Jun 2024	Hadron Physics Seminar , The University of Tokyo, Tokyo, Japan (online)
May 2023	ISOQUANT special seminar, Heidelberg University, Heidelberg, Germany
May 2023	Transport Meeting, Goethe University Frankfurt, Frankfurt, Germany
Dec 2022	QCD seminar at QCD theory group , University of Jyväskylä, Jyväskylä, Finland
Oct 2022	BES-Tea seminar (online), University of Washington, Seattle, US
Sep 2022	NBI Heavy-ion seminar, Niels Bohr Institute, Copenhagen, Denmark
Sep 2022	CLASH seminar , Lund University, Lund, Sweden
Nov 2021	NPA seminar at Yale Wright Laboratory (online), Yale University, New Haven, US
Nov 2021	Monash HEP webinar (online), Monash University, Melbourne, Australia
Sep 2021	RBRC seminar, RIKEN BNL (online), Brookhaven National Laboratory, New York, US
Sep 2021	PHENOmenal: ALICE experiment and Monte-Carlo event generator meeting (online), CERN, Geneva
3ep 2021	Switzerland
Jan 2021	High Energy Nuclear Physics in China (online) , Central China Normal University, Wuhan, China
Jan 2021	CHEP seminars (online). McGill University. Montreal. Canada

Contributed talks

Sep 2022	The Physical Society of Japan Autumn Meeting , Okayama University of Science, Okayama, Japan
Jun 2022	The 20th International Conference on Strangeness in Quark Matter, Busan, South Korea
Mar 2022	The Physical Society of Japan the 77th Annual Meeting (online), Okayama, Japan
Nov 2021	The 8th Asian Triangle Heavy-Ion Conference (ATHIC2021), Inha University, Incheon, South Korea
Sep 2021	The Physical Society of Japan Autumn Meeting (online),
Dec 2019	Zimányi School , Wigner Research Center for Physics, Budapest, Hungary
Nov 2019	The 28th International Conference on Ultra-relativistic Nucleus-Nucleus Collisions (Quark Matter
	2019) , Wuhan, China
Oct 2019	New Development of Hydrodynamics and its applications in Heavy-ion Collisions , Fudan University,
	Shanghai, China
Sep 2019	The Physical Society of Japan Autumn Meeting, Yamagata University, Yamagata, Japan
Jun 2019	The 18th International Conference on Strangeness in Quark Matter (SQM 2019), Bari, Italy
Jun 2019	The Physical Society of Japan the 74th Annual Meeting, Kyushu University, Fukuoka, Japan
Jun 2019	The 2nd JETSCAPE Winter School and Workshop, Texas A&M University, Texas, US
Oct 2018	The 5th Joint Meeting of the Nuclear Physics Divisions of the APS and the JPS, Hawaii, US
Aug 2018	The 64th Young Nuclear and Particle Physicist Group of Japan, Chiba, Japan
Jun 2018	The 2nd International Workshop on Collectivity in Small Collision Systems, Central China Normal
Juli 2010	University, Wuhan, China

Skills_____

Programming C++, Python (Matplotlib, Pandas, NumPy, Scikit-learn. etc.), FORTRAN **Miscellaneous** Linux, Shell (Bash), LT_FX, Microsoft Office, Github

Languages _____

English Professional Working Proficiency **Japanese** Native

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