HeKKSaGOn 10th German–Japanese University Presidents' Conference

Digital Conference Booklet
Hosted by The University of Osaka
30–31 October 2025

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1. Conference Overview

The 10th HeKKSaGOn German–Japanese University Presidents' Conference
"Transdisciplinary Initiatives and Alliance Building for Global Futures"
30–31 October 2025 | The University of Osaka (Suita Campus)

The University of Osaka is honored to host the 10th German–Japanese University Alliance (HeKKSaGOn) Presidents' Conference on 30–31 October 2025. This milestone event will bring together presidents, vice-presidents, researchers, students, and administrators from all six member universities – Heidelberg University, Kyoto University, Karlsruhe Institute of Technology, Tohoku University, University of Göttingen, and The University of Osaka – for two days of dialogue and collaboration.

Under the theme *"Transdisciplinary Initiatives and Alliance Building for Global Futures,"* participants will explore how universities can work together across disciplines and national boundaries to address the challenges facing society and the planet.

The University of Osaka looks forward to welcoming our partners, guests, and friends to Osaka for this special occasion and to celebrating a decade of joint commitment to science, innovation, and mutual understanding between Japan and Germany.

HeKKSaGOn – The German–Japanese University Alliance – was established in 2010 as a strategic partnership among six leading institutions in Japan and Germany. Its mission is to promote research collaboration, educational exchange, and dialogue among students and scholars, while contributing to global academic development and sustainable futures.

HeKKSaGOn
Heidelberg | Kyoto | Karlsruhe | Sendai | Göttingen | Osaka
NETWORK OF UNIVERSITIES

2. Program Schedule

*Blue sections indicate parallel sessions scheduled concurrently for different participants within the same time slot.

Thursday, 30 October 2025

Time	Event	Venue
9:00 – 11:30	**I. Get-together for Presidents** • Tekijuku Tour – Origin of The University of Osaka (by taxi) • Private meeting for university presidents (11:00 – 11:30, Icho Kaikan)	Tekijuku → Icho Kaikan
9:00 – 11:30	**II. Optional Guided Tours for Researchers** (1) Suita Campus – Center for Infectious Disease Education and Research (CiDER) (2) Toyonaka Campus – Center for Quantum Information and Quantum Biology (QIQB)	Depart from RIHGA Royal Hotel Entrance
9:00 – 11:30	**III. Students' Workshop**	Suita Campus (Depart from Kasugaoka House)
11:30 – 13:00	Registration / Buffet Lunch (for all participants)	Icho Kaikan (3F & Restaurant Minerva 2F)
13:00 – 13:30	**Welcome and Opening Remarks** Opening Remarks: President Atsushi Kumanogoh (The University of Osaka) Greetings: Shigekazu Matsuura (MEXT), Melanie Saxinger (Consul General of Germany Osaka-Kobe), Dr. Axel Karpenstein (DAAD Tokyo Office), Simon Essler (DFG Office Japan)	Hankyu Railway & Sanwa Bank Hall (3F, Icho Kaikan)
13:30 – 14:15	**Keynote Speech with Q&A** "In Vivo Cell Environment Resilience – Visualized by Next-Generation Imaging Technology" – Professor Masaru Ishii (Distinguished Professor, Dean of Medicine, The University of Osaka)	Icho Kaikan (3F)

HeKKSaGOn 2025 | Program Schedule – Day 1

14:15 – 14:30	Group Photo	Icho Kaikan
14:30 – 14:45	Coffee Break	Foyer (3F, Icho Kaikan)
14:45 – 15:45	**HeKKSaGOn Universities Presentations (with Q&A)** Theme: *Transdisciplinary Initiatives and Alliance Building for Global Futures* Speakers: Frauke Melchior (Heidelberg), Nagahiro Minato (Kyoto), Jan Sickmann Hesthaven (KIT), Teiji Tominaga (Tohoku), Axel Schölmerich (Göttingen), Atsushi Kumanogoh (Osaka)	Hankyu Railway & Sanwa Bank Hall (3F, Icho Kaikan)
16:00 – 17:00	**Parallel Sessions** (1) Campus Tour (for Presidents and Delegates) – CiDER visit (2) Joint Project Meetings (6 groups) & Working Group (1) (3) Campus Tour (for Students) – SANKEN (ISIR)	Suita Campus
17:15	Depart for Nakanoshima Center (by bus)	From CiDER / Convention Center / SANKEN
18:15 – 20:15	**Welcome Dinner (for all participants)** Opening Address: President Kumanogoh (Osaka) Toast: President Schölmerich (Göttingen) Closing Remarks: President Hesthaven (KIT)	Salon Agora, Nakanoshima Center (9F)
20:30	Depart for RIHGA Royal Hotel (on foot) / Suita Campus (by bus)	From Nakanoshima Center

HeKKSaGOn 2025 | Program Schedule – Day 2

*Blue sections indicate parallel sessions scheduled concurrently for different participants within the same time slot.

Friday, 31 October 2025

Time	Event	Venue
8:00 – 8:50	Depart for The University of Osaka (by bus)	From RIHGA Royal Hotel Entrance
9:00 – 11:30	**Parallel Sessions** (I) Closed Presidents' Meeting (Chair: President Kumanogoh) (II) Joint Project Meetings & Working Group (III) Students' Workshop	Co-Creative Innovation Building & Icho Kaikan (3F), Suita Campus
11:30 – 13:00	Buffet Lunch (for all participants)	Restaurant Minerva (2F, Icho Kaikan)
13:00 – 15:10	**Plenary Session** – Summary Report of Student Workshop & Autumn School (13:00–13:30) – Summary Reports of Joint Projects and Working Group (13:30–15:00, incl. Q&A) – Summary Report of Closed Presidents' Meeting (15:00–15:10) – President Kumanogoh	Hankyu Railway & Sanwa Bank Hall (3F, Icho Kaikan)
15:15 – 15:45	Coffee Break (Presidents & Rectors – Meeting Room; Others – Foyer)	Icho Kaikan (3F)
15:45 – 16:15	**Closing Ceremony** – Signing of Joint Statement & Exchange of Presents / Closing Remarks (President Kumanogoh)	Hankyu Railway & Sanwa Bank Hall (3F, Icho Kaikan)
16:30	Depart for RIHGA Royal Hotel (by bus)	From Icho Kaikan

3. Participants' List & CVs

Presidents & Vice Presidents

Heidelberg University

- Frauke Melchior — Rector

Kyoto University

- Nagahiro Minato — President
- Tetsuo Sawaragi — Executive Vice-President for Research Ethics, Integrity, Code of Conduct, and International Affairs

Karlsruhe Institute of Technology

- Jan Sickmann Hesthaven — President
- Thomas Hirth — Vice President for Transfer and International Affairs

Tohoku University

- Teiji Tominaga — President
- Toshiya Ueki — Executive Vice President for General Affairs, International Relations, and Academic Resources
- Marie-Pierre Favre — Vice President for Comprehensive Internationalization, Chief Global Officer

University of Göttingen

- Axel Schölmerich — President

The University of Osaka

- Atsushi Kumanogoh — President
- Mikako Hayashi — Executive Vice President for Global Engagement
- Yoichi Miyamoto — Executive Vice President for Global Education

Prof. Dr. Frauke Melchior
Rector of Heidelberg University

Prof. Dr. Frauke Melchior has been Rector of Heidelberg University since 2023. As Rector, she is responsible for the university's overall development and strategic orientation, the governance of the Excellence Strategy, as well as appointments to professorships. She is also head of the University Senate and all of its committees. Frauke Melchior studied chemistry at the University of Marburg and the University of Bristol (UK) and in 1990 earned her doctorate in Marburg on a biochemical topic. As a postdoctoral researcher in the field of molecular cell biology, she first worked at the Max Planck Institute for Biophysical Chemistry in Göttingen and from 1992 at the Scripps Research Institute in La Jolla (USA). In 1998 Frauke Melchior started the first research group of her own at the Max Planck Institute of Biochemistry in Martinsried near Munich. Six years later she accepted a professorship for biochemistry in the field of human medicine at the University of Göttingen. In 2008 Frauke Melchior was appointed Professor of Molecular Biology at Heidelberg University. From 2021 to 2023 she was a member of the Board of Directors of Forschungszentrum Jülich, one of the research centers in the Helmholtz Association.

Nagahiro MINATO

President
Kyoto University

Education/Career

1975 Bachelor of Medicine, Kyoto University, Japan
1983 Doctor of Medicine (MD, PhD), Kyoto University, Japan

Research Interests and Experience: Cancer and Immunology

Positions Held

Oct. 2020-Present President, Kyoto University

2017–2020 Provost, Kyoto University
2014–2020 Executive Vice-President for Strategy Coordination, Research, Planning, and Hospital Administration, Kyoto University
2010–2014 Dean, Graduate School of Medicine, Kyoto University
1992–2016 Professor, Department of Immunology and Cell Biology, Graduate School of Medicine, Kyoto University
1990–1992 Associate Professor, Department of Medicine, Jichi Medical School
1980–1990 Assistant Professor, Department of Medicine, Jichi Medical School
1977–1980 Research Associate, Department of Immunology and Microbiology, Albert Einstein College of Medicine, New York, USA
1975–1977 Resident, Chest Disease Research Institute Hospital, Kyoto University
1975 Graduated from the School of Medicine, Kyoto University

Awards and Decorations

2014 JCA-CHAAO Award
2016 The Pharmaceutical Society of Japan Award for Drug Research and Development
2018 International Okamoto Award

Board Member, The Japan Association of National Universities (2020-Present)
Member, Central Council for Education, Ministry of Education, Culture, Sports, Science and Technology (MEXT) (2018-2025)
President, The 43rd Annual Meeting of the Japanese Society for Immunology (2014)
Associate Member, Science Council of Japan (2006-2020)
Member, Council of the Japanese Immunology Society (2006-Present)
Executive Editor, *Immunology Letters*, the official journal of the Federation of European Immunology Societies (1998–2010)

Tetsuo Sawaragi, PhD in Engineering
Executive Vice-President for Research Ethics and Integrity, Code of Conduct, and International Affairs, Kyoto University
Professor Emeritus, Kyoto University

Curriculum Vitae:

Tetsuo Sawaragi was born in Kyoto, Japan. He received his B.S., M.S., and Ph.D. in Systems Engineering from Kyoto University in 1981, 1983 and 1988, respectively. He is a Vice-President for Research Ethics and Integrity, Code of Conduct, and International Affairs at Kyoto University and Professor Emeritus at Kyoto University. From 1991 to 1992, he was a visiting scholar in the Dept. of Engineering-Economic Systems at Stanford University. In addition to his professorship, he has been engaged in the position of Dean at the Graduate School of Engineering, Kyoto University, from 2021 to 2023 and a member of the Science Council of Japan (SCJ) from 2017 as well as a Fellow of SICE (The Society of Instrument and Control Engineers, Japan). In the past, he served as President of SICE, President of the Human Interface Society, Japan, and President of ISCIE (The Institute of Systems, Control and Information Engineers, Japan).

Research Interest:

He has been engaged in research on Systems Engineering, Cognitive Science, and Artificial Intelligence, particularly in the development of human-machine collaborative systems, including human-machine interface design, human-robot collaboration design, usability analysis of human-computer interactions, and design of human-centered automation for smart manufacturing. His recent main interests are in the design/analysis/evaluation of the socio-technical systems, in which technological, human, and organizational factors are interrelated, and in their risk management for establishing resilience against external disturbances and internal variabilities. His interests are extended towards building a rich aging society model using data-centric design methodologies for establishing the "Data–Knowledge–Experience" cycle, including the development of measurement technologies for field workers' ability (cognition, judgment, operation) and contextual data for work support towards realizing human-centered work systems. His interests also cover interaction analysis between a human driver and a traffic environment, between a human driver and a driver-assistant system, and measurement of a driver's mental workload in partial autonomous driving.

Jan S. Hesthaven

President of KIT

Karlsruher Institut für Technologie +49 721 608 42000 (ph)
Kaiserstraße 12 president@kit.edu
76131 Karlsruhe www.kit.edu

Research expertise

Focus on the development, analysis, and application of high-order accurate computational methods and advanced scientific computing for simulation of complex multi-scale/multi-physics problems with a strong connection to application driven activities in interdisciplinary collaborative efforts with domain scientists and industry. A particular focus of his research has been on the development ofhigh-order accurate methods for linear and non-linear wave problems. Recent emphasis on reduced order models and data science and its use in scientific applications.

Education

08/91 08/95 MSc, Technical University of Denmark (DTU), Denmark
PhD. Institute for Informatics and Mathematical Modeling (IMM), DTU, Denmark
11/09 Dr. Techn., DTU, Denmark.

Employment history

08/95-06/99	Visiting Assistant Professor, Applied Mathematics, Brown University, USA
07/99-12/02	Assistant Professor of Applied Mathematics, Brown University, USA
07/01-12/02	Manning Assistant Professor, Brown University, USA
01/03-06/05	Associate Professor of Applied Mathematics, Brown University, USA
07/05-06/13	Professor of Applied Mathematics, Brown University, USA
10/07-10/17	Professor (Adjunct), Technical University of Denmark, DK
10/06-06/13	Director (Founding) of Center for Computation and Visualization, Brown University
07/10-06/13	Deputy Director (Founding) of US Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, USA
02/14-12/20	Director (Founding) of Scientific IT and Application Support (SCITAS), EPFL, CH
02/17-12/20	Dean of the School of Basic Sciences, EPFL, CH
07/13- 09/24	Chair of Computational Mathematics and Simulation Science, EPFL, CH
07/13- 09/24	Professor of Mathematics, EPFL, CH
01/21- 09/24	Provost and Vice President of Academic Affairs, EPFL, CH
10/24 -	President Karlsruhe Institute of Technology (KIT)

Honors and Awards

08/95	NSF Postdoctoral Fellowship, Advanced Scientific Computing, NSF, USA
09/00	Alfred P. Sloan Research Fellowship, Alfred P. Sloan Foundation, USA
03/02	NSF CAREER Award, Division of Mathematical Sciences, NSF, USA
03/04	Philip J. Bray Award for Teaching Excellence, Brown University, USA.
03/14	Fellow of Society of Applied and Industrial Mathematics (SIAM), USA
05/22	Fellow of the Royal Academy of Sciences and Letters, Denmark
10/22	Fellow of the American Mathematical Society (AMS), USA
03/23	Fellow of Academia Europaea, London, UK

05/24 Dr.h.c., Technical University of Denmark, DK

Publications
>175 peer-reviewed journal papers, four monographs, three translations, 11 editorial texts and special volumes, and numerous reviewed conference contributions.
H-index=67, >22’000 citations (Google). Google Scholar

Plenary and Invited presentations
>75 plenary presentations at international events since 2000, >120 department and institutional seminars at leading universities, research laboratories and companies.

Board experience

01/12-12/15	Scientific advisor board, Center for Uncertainty Quantification, KAUST, KSA
07/17-06/19	Scientific advisor board, Energy Oriented Center for Excellence, France
01/20-	Governing Board, University of Copenhagen, Denmark
01/21-	Board of Trustees, SIAM, Philadelphia, USA
01/21-	Board of Directors, EBRAINS, Brussels
01/21-	Governing board, IDIAP, Switzerland
01/21-	Governing board, Swiss Data Science Center, Switzerland
01/21-	EXC SimTech Advisory Board, Stuttgart, Germany

Institutional services
Brown (’98-’13): University committee for undergraduate science education ('06-'07); University resource committee ('08-'11); Academic priorities committee ('11-'13); Presidents science advisory board ('09-'13); Representing Brown at World Economic Forum, Davos (2012).

EPFL (’13-): Oversight committee of campus IT ('13-'15); CoPil HPC ('13-); VPSI Direction ('16-'17); IT Strategic committee ('16-'17). Member of EPFL Leadership team (’17-).

International services
Evaluation committees: SIMULA, Norway ('10); Information and Communication in Norway (chair)
('12); INRIA Theme I (chair) ('13); SIMULA (chair), Norway ('16); INRIA Theme I (chair), France ('18); Schmidt Science Fellows (’23); Heidelberg Institute of Theoretical Studies, Germany (’23).

Editor-in-chief for SIAM Journal of Scientific Computing (’16-‘21). Associate editor for seven journals.

Funding history and industrial consulting
At Brown (’98-’13): Extensive funding record during 15 years. Funding agencies include US Airforce Office of Scientific Research (AFOSR), National Science Foundation (NSF), US Army Research Office (ARO), Defense Advanced Research Projects Agency (DARPA).

At EPFL (’13-): Swiss National Science Foundation (SNSF); European Union, Horizon 2020; CTI; Innosuisse; US Airforce Office of Scientific Research (AFOSR).

Consulting for a number of companies in US and Europe: COMSOL (S), HyperComp Inc (US), Institute for Computer Applications in Science and Engineering (NASA, US); TechX (US); Akselos (CH).

Mentoring

Mentored 23 students to the PhD degree, and 25 postdoctoral researchers. All are employed in attractive positions at international universities, research laboratories or in industry.

Prof. Dr. Thomas Hirth
Executive Board
Vice President Transfer
and International Affairs

Since January 01, 2016, he has been Vice President for Innovation and International Affairs of KIT. He has been reelected as Vice President for Transfer and International Affairs for a second term until December 31, 2027.

He studied chemistry at Universität Karlsruhe, one of the predecessors of the KIT, and then graduated in Karlsruhe at the Institute of Physical Chemistry and Electrochemistry.

From 1992 to 2007 Thomas Hirth worked at the Fraunhofer Institute for Chemical Technology ICT in Pfinztal, Germany and held various positions. From 2008 to 2015, he was professor at the University of Stuttgart and head of the Institute of Interfacial Process Engineering and Plasma Technology IGVP of Stuttgart University, and director of the Fraunhofer Institute for Interfacial Engineering and Biotechnology IGB, Stuttgart.

From 2014 to 2019 Thomas Hirth was chairman of the steering committee in the research program “Bioeconomy Baden-Württemberg” and from 2012 to 2020 he was a member of the DFG Process Engineering Review Board.

From 2016 to 2022 he was Chairman of the ProcessNet Steering Committee and since 2024 he is member of the board of DECHEMA.

Since 2020 he has been a member of the permanent Commission on Transfer and Cooperation of the German Rectors' Conference, the TU9 International Committee and the TU9 Innovation and Transfer Committee.

Since 2023, he has been Chairman of the Advisory of the Research Center for Information Technology and since 2024 Chairman of the Advisory Board of ZKM I Center for Media and Art Karlsruhe.

The VDI Society for Process Engineering and Chemical Engineering (VDI-GVC) honors Prof. Dr. Thomas Hirth in 2022 with the VDI medal of honor for his work and successes in chemistry and process engineering as well as pioneering national and international cooperation.

The DECHEMA honors Prof. Dr. Thomas Hirth in 2024 with the DECHEMA medal of honor for his extraordinary commitment as chairman of ProcessNet and his close cooperation with the DECHEMA Biotechnology Division, as well as with other sectors of the process industry.

Teiji Tominaga

President

Date of Birth: July 3, 1957

Birthplace:
Fukushima Prefecture

Specialty Field:
Medicine (Neurosurgery)

■ Educational Background

March 1982	Graduated from Tohoku University School of Medicine
May 1982	Obtained Medical License

■ Professional Experience

April 2024	President of Tohoku University
April 2023	Executive Vice President for Co-creation Strategy, Disaster Reconstruction and Regeneration, Tohoku University
April 2019	Director, Tohoku University Hospital
April 2015	Vice Director, Tohoku University Hospital; Vice President, Tohoku University
April 2014	Deputy Director, Clinical Research Innovation and Education Center, Tohoku University Hospital (until March 2019)
May 2003	Professor, Division of Neurology, Department of Neuroscience and Sensory Organs, Graduate School of Medicine, Tohoku University
April 2002	Clinical Associate Professor, Tohoku University School of Medicine
March 2000	Director, Department of Neurosurgery, Kohnan Hospital, Japan (an affiliate of Tohoku University Hospital)
June 1997	Lecturer, Tohoku University School of Medicine
April 1993	Clinical observer, Barrow Neurological Institute, Phoenix, USA (until Sept 1993)
Sept 1989	Assistant Professor, Tohoku University School of Medicine
Feb 1987	Research Fellow, Membrane Research Institute, Philadelphia, USA (until June 1988)
June 1982	Resident, Tohoku University School of Medicine

■ Awards

2023 Keiji Sano Award (Japan Neurosurgical Society)

2019 Makoto Saito Academic Award (Japan Neurosurgical Society)

2014 Commendation for Science and Technology
(Minister of Education, Culture, Sports, Science and Technology)

2013 Info-communications Promotion Month Commendation
(Minister for Internal Affairs and Communications)

Toshiya Ueki

Executive Vice President
for General Affairs,
International Relations,
and Academic Resources

Toshiya Ueki is the Executive Vice President for General Affairs, Financial Affairs and International Relations of Tohoku University and is also a Professor of International Law at the Faculty and Graduate School of Law. Prof. Ueki served as the Dean of the Faculty and Graduate School of Law (2004-2006) and from 2006 he has been an Executive Vice President of Tohoku University.

He has authored or co-authored articles on international law and written many books on the subject. He has been recognized for his exceptional work in the fields of transnational /international law and for his studies on the theory of international law related to international organizations. For his outstanding academic achievements, he was awarded the 27th Adachi Mineichiro Memorial Award in 1994. From 1988 to 1990 he was a Visiting Fellow at the Research Centre for International Law at the University of Cambridge, UK, and from 1996 to 1997 he was a Visiting Scholar at the Harvard-Yenching Institute at Harvard University, USA. Prof. Ueki is a member of a number of distinguished academic societies including the Japanese Society of International Law and the International Law Association, and from May 2020 he is serving as the President of the Japanese Association of World Law.

As EVP of Tohoku University, Prof. Ueki strives to develop Tohoku University's international relationships, academic affairs, and its global network through active participation in international academic consortia and other global activities.

TOHOKU UNIVERSITY

Marie-Pierre FAVRE

Chief Global Officer

Vice President for

Comprehensive Internationalization

Specialty Field:

- Internationalization in Higher Education
- Cross-cultural management
- International development in HE

Marie-Pierre Favre, Ph.D., has served as VP for International Relations at INSA Lyon for 10 years and then was appointed five years ago as Senior Advisor/ Vice-President delegate for International Development of INSA Group - the largest group of publicly-funded engineering graduate schools in France.

She experienced 5 years abroad (USA and Spain). A varied professional experience, both in the private sector (International development for a Business school, Insurance industry, and Financial service for exports in a private company) and in HE allows her to adapt consequently in the international arena.

Several leading positions in international offices of different HEIs provide her with a solid background to manage and promote successful internationalization.

She served as well in several strategic committees in France, Europe, and overseas.

Newly appointed as VP, she is now fully dedicated to the internationalization strategy and its implementation at Tohoku University in order to

- Expand Tohoku University's global network and improve its outreach
- Contribute to the internationalization of the campus
- Improve global readiness and awareness of university members

Prof. Dr. Axel SCHÖLMERICH

President

Professor Axel Schölmerich has been President of the University of Göttingen since March 2025. He was appointed by the Senate to fulfil the duties of a President in order to bridge the period until a new President takes up office. The psychologist was previously Rector of Ruhr-Universität Bochum from 2015 to 2021.

Academic self-administration

2015–2021	Rector of the Ruhr-Universität Bochum
2012–2014	Chairman of the Academic Senate, Ruhr-Universität Bochum
2009–2011	Deputy Chairman of the Academic Senate, Ruhr University Bochum
2006–2007	Dean, Faculty of Psychology, Ruhr University Bochum

Academic development

2006	W3-Professorship "Developmental Psychology", Ruhr-University Bochum
1997	C3-Professorship "Developmental Psychology", Ruhr-University Bochum
1995	C3-Professorship "Developmental Psychology", Martin Luther University Halle-Wittenberg
1995	Habilitation in Psychology (Univ. Mainz)
1990	Dr. rer. nat. Department of Psychology (Univ. Osnabrück)
1980	Diploma in Psychology (Univ. Mainz)
1977	Diploma in Educational Science (Univ. Mainz)

Atsushi Kumanogoh
President, The University of Osaka

Education

1991 Graduated from Faculty of Medicine, Osaka University (M.D.)
1997 Ph.D. in Medicine, Osaka University

Academic Positions

- **1997-2003**: Assistant, Research Institute for Microbial Diseases, Osaka University
- **2003-2006**: Associate Professor, Research Institute for Microbial Diseases, Osaka University
- **2006-2007**: Professor, Research Institute for Microbial Diseases, Osaka University
- **2007-2011**: Professor, Immunology Frontier Research Center, Osaka University
- **2011-2025**: Professor, Graduate School of Medicine, Osaka University

Administrative Positions

- **2015-2017**: Associate Dean, Graduate School of Medicine, Osaka University
- **2015-2019**: Associate Executive Director, Osaka University
- **2019-2021**: Associate Dean, Graduate School of Medicine, Osaka University
- **2021-2025**: Dean, Graduate School of Medicine, Osaka University; Dean, Faculty of Medicine
- **2021-2025**: Executive Advisor to the President
- **2025-Present**: President, The University of Osaka

Membership of Academic Associations

- Chief Research Supervisor (in charge of life sciences), Japan Science and Technology Agency (JST)
- Member of the Board of Directors, The Japanese Medical Science Federation
- Member of Life Science Committee, Ministry of Education, Culture, Sports, Science and Technology (MEXT)
- Member of Study Committee on Future Medical Education, MEXT
- Member of the Board of Directors, The Japanese Society of Clinical Immunology
- Member of the Board of Directors, The Japanese Society of Inflammation and Regeneration
- Member of the Board of Trustees, The Japanese Society of Internal Medicine

Awards and Honors

- **2005**: Japan Society for the Promotion of Science Prize
- **2005**: Japan Society for Immunology Award
- **2010**: Osaka Science Prize
- **2011**: Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology
- **2012**: Mochida Memorial Academic Award
- **2015**: Elected Member, American Society for Clinical Investigation (ASCI)
- **2017**: Distinguished Professor, Osaka University

Mikako HAYASHI
The University of Osaka
Executive Vice President

Biographical Note

Professor Mikako Hayashi assumed office as Executive Vice President for International Affairs at The University of Osaka in April 2025, joining President Atsushi Kumanogoh's new leadership team. Having dedicated her entire career to Osaka University, Professor Hayashi brings a strong commitment to advancing the university's global engagement and fostering cutting-edge research that contributes to health and well-being worldwide.

A graduate of Osaka University's Faculty of Dentistry (B.Dent., 1987) and recipient of a Doctor of Dentistry degree (Ph.D., 1998), she has consistently bridged clinical excellence, education, and research. Her specialization in operative and conservative dentistry combines hands-on clinical practice with mentoring the next generation of dental professionals and promoting innovative research for healthier teeth and healthier lives.

Education

1998 Doctor of Dentistry, Osaka University
1987 Bachelor of Dentistry, Osaka University

Fields of Specialization

- Operative Dentistry and Endodontics
- Dental Material Sciences
- Clinical Cariology and Restorative Dentistry

Academic Career/Positions Held

2025–Present Executive Vice President, The University of Osaka
2020–2024 Director, Osaka University Dental Hospital
2012–Present Professor, Graduate School of Dentistry, The University of Osaka
2011–2012 Associate Professor, Graduate School of Dentistry, Osaka University
2005–2011 Lecturer, Osaka University Dental Hospital
2002–2005 Assistant, Graduate School of Dentistry, Osaka University
1994–2002 Assistant, Osaka University Dental Hospital

Selected Professional Memberships

- The Japanese Society for Conservative Dentistry
- The Japanese Society for Dental Materials and Devices
- The Japanese Society of Oral Therapeutics and Pharmacology
- International Association for Dental Research (IADR)

Selected Awards and Recognitions

2018 Osaka University Award (University Management Category)

2017 IADR Innovation of Oral Care Award

2009 Yumikura Research Encouragement Award, Osaka University Dental Society

2006 Osaka University Award for Excellence in Education and Research

1999 Young Investigator Award, Japanese Society for Conservative Dentistry

Yoichi MIYAMOTO
The University of Osaka
Executive Vice President

Education

1994 Ph.D. in Linguistics, University of Connecticut, Storrs
1989 M.S. in Linguistics, Georgetown University, Washington, D.C.
1984 B.A. in Education, Waseda University, Tokyo

Fields of Interest

- Syntactic theories
- First language acquisition theories
- Second/Third language acquisition theories

Academic Career/Positions Held

Since 2025 Executive Vice President, The University of Osaka
Since 2025 Director, The University of Osaka Library
2024-2025 Executive Advisor to the President
2022-2025 Dean, Graduate School of Humanities, The University of Osaka
2022-Present Professor, Graduate School of Humanities, The University of Osaka
2021-2022 Councilor, Education and Research Council, The University of Osaka
2017-2022 Professor, Graduate School of Language and Culture, The University of Osaka
2007-2017 Associate Professor, Graduate School of Language and Culture, The University of Osaka
2005-2007 Assistant Professor, Graduate School of Language and Culture, The University of Osaka
1997-2005 Assistant Professor, Department of Language and Culture, The University of Osaka
1994-1997 Assistant Professor, Department of Linguistics, Ohio University

Selected Professional Memberships

2024-Present Councilor, Board of Councilors, The English Linguistic Society of Japan
2018-Present Councilor, Board of Councilors, The Linguistic Society of Japan
2012-2020 Member, Editorial Board, *Journal of East Asian Linguistics*

Selected Awards and Decorations

2025 ACE Japan Higher Education Executive Fellowship
American Council on Education

2017 JCHAT Best Paper Award
The Japanese Society for Language Sciences

2005 Overseas Advanced Education and Research Practice Support Program
Ministry of Education, Culture, Sports, Science and Technology

2000 Fulbright Research Fellowship
Fulbright Foundation

1987 Rotary Scholarship
Rotary Foundation

Keynote Speaker

Masaru Ishii, M.D., Ph.D.
Dean, Graduate School of Medicine — The University of Osaka
Professor and Chair, Department of Immunology and Cell Biology; Areas: immunology, cell biology, bioimaging, rheumatology.

Curriculum Vitae

Name: Masaru Ishii, M.D., Ph. D.

Title: Dean, Graduate School of Medicine
Professor and Chairman, Department of Immunology and Cell Biology,
Graduate School of Medicine, The University of Osaka
Suita, Osaka 565-0871, Japan.
e-mail: mishii@icb.med.osaka-u.ac.jp

Project Leader, Laboratory of Bioimaging and Drug Discovery,
National Institutes of Biomedical Innovation, Health and Nutrition
Ibaraki, Osaka 567-0085, Japan
e-mail: mishii@nibn.go.jp

Education:

1998	M.D.	The University of Osaka, Osaka, Japan
2005	Ph.D.	The University of Osaka, Osaka, Japan

Employment:

1998-1999	Resident in Osaka University Hospital
1999-2000	Resident in National Osaka-Minami Hospital
2000-2005	Assistant Professor of Pharmacology, Graduate School of Medicine, The University of Osaka
2005-2009	Chief Investigator and Clinical Fellow in Rheumatology, National Osaka-Minami Medical Center
2006-2008	Visiting Postdoctoral Fellow (Human Frontier Science Program LT Fellow), Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health (USA), DHHS, Maryland, USA
2009-2011	Associate Professor (PI), Laboratory of Biological Imaging, Immunology Frontier Research Center, The University of Osaka
2011-2013	Professor, Laboratory of Cellular Dynamics, Immunology Frontier Research Center, The University of Osaka
2013-present	Professor and Chairman, Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka
2019-present	Project Leader (adjunct), Laboratory of Bioimaging and Drug Discovery, National Institutes of Biomedical Innovation, Health and Nutrition
2025-present	Dean, Graduate School of Medicine, The University of Osaka

Awards and honors:

2025	The Commendation for Science and Technology by the Minister of the MEXT
2022	The JSI Prize, The Japanese Society for Immunology
2020	Osaka Science Prize
2020	JCR Scientific Award, Japanese College of Rheumatology
2019	Setsuro Ebashi Prize, The Japanese Pharmacological Society

2018	JSBMR Ogata Prize, The Japanese Society for Bone and Mineral Research
2014	The JSPS Prize
2013	The Young Investigator Award, The Japanese Medical Association
2013	JSBMR Distinguished Scientist Prize, The Japanese Society for Bone and Mineral Research
2011	The Best Young Investigator Award, Japan Foundation for Aging and Heath
2010	Astellas Award for the Best Biomedical Research, Astellas Foundation for Research on Metabolic Disorders
2010	The Young Scientists' Prize, The Commendation for Science and Technology by the MEXT
2007	Young Investigator's Award, Japanese College of Rheumatology
2006	Young Investigator's Award, Japanese Society of Allergology.

Membership:
- The Japanese College of Rheumatology (Director)
- The Japanese Society for Bone and Mineral Research (Director, Vice President)
- The Japanese Society for Inflammation and Regeneration (Director, Vice President)
- The Japanese Society for Osteoimmunology (Director)
- The Japanese Society of Immunology (Director)
- The Japanese Pharmacological Society (Board Member)
- International Union of Basic & Clinical Pharmacology (Executive Board Member)

Areas of expertise: immunology, cell biology, bioimaging, rheumatology

Selected publications:
1) Miyamoto *et al.*, Periportal macrophages protect against commensal-driven liver inflammation. ***Nature,*** 629: 901–909, 2024.
2) Taniguchi *et al.*, *In vivo* induction of activin A-producing alveolar macrophages supports the progression of lung cell carcinoma. ***Nat. Commun.***, 14(1): 143, 2023
3) Hasegawa *et al.,* Identification of a novel arthritis-associated osteoclast precursor macrophage regulated by FoxM1. ***Nat. Immunol***., 20(12):1631-1643, 2019.
4) Maeda *et al.*, Real-time intravital imaging of pH variation associated with cell osteoclast activity and motility using designed small molecular probe. ***Nat. Chem. Biol.,*** 12(8):579-85, 2016.
5) Nishikawa *et al.,* Dnmt3a regulates osteoclast differentiation by coupling to an S-adenosyl methionine-producing metabolic pathway. ***Nat. Med.***, 21(3):281-7, 2015.
6) Ishii *et al.*, Sphingosine-1-phosphate mobilizes osteoclast precursors and regulates bone homeostasis. ***Nature***, 458 (7237): 524-528, 2009.
(total: 184 publications, as of September 2025).

Joint Projects Lead coordinator/ Co-coordinator

Innovative biostatistical methods for complex medical data

- **Project abstract:**

Biostatistics is a field of research in statistics to develop statistical methods useful for medical, biological and environmental research. In this project, we focus on developing innovative statistical methods for medical research. In clinical medicine, variety of statistical methods are widely used. This project covers datasets obtained under various study designs including randomized clinical trials, observational studies and meta-analysis. We aim to develop truly useful statistical methods in clinical research incorporating advanced methodologies such as survival analysis, longitudinal data analysis, functional data analysis, causal inference, adaptive designs, and machine learning/ artificial intelligence. The latter forming the intersection to computer sciences. Furthermore, mathematical techniques, which are not routinely applied in biostatistics and deserve more recognition, such as mathematical programing and stochastic differential equations, would be introduced innovatively to open new research fields. Through collaborative work among several universities, we will promote exchange of young researchers and create strong framework of international collaboration in biostatistics.

- **Lead coordinator:**

Name: Satoshi Hattori

Position: Professor

Institution: The University of Osaka

Department, Faculty: Department of Biomedical Statistics, Faculty of Medicine

Sep 11, 2025

1. Biographical Information

Name: Satoshi HATTORI
Address: 2-2 Yamadaoka, Suita city, Osaka, Japan, 565-0871
Department of Biomedical Statistics, Graduate School of Medicine, Osaka University
Phone: +81-6-6879-3301
Fax: +81-6-6879-3309
E-mal: hattoris@biostat.med.osaka-u.ac.jp

2. Education

Tokyo University of Science [Tokyo], B. Sc , Applied Mathematics, May 1992
Tokyo Institute of Technology [Tokyo], M.Sc, Information Science/Statistics, May 1994
Kitasato University [Tokyo], Ph. D, Biostatistics, May 2003

3. License

None

4. Professional Positions

Professor, Department of Biomedical Statistics, Graduate School of Medicine, Osaka University 2017-present

5. Honors, Awards, Scholarships

Research Encouragement Prize for Young Statistician, Biometric Society of Japan, 2006
the Biometric Society of Japan Award for Outstanding Scientific Contribution, 2021

6. Professional Activities

Membership in Professional Societies:

- International Biometric Society (Representative council member for Japanese Region, 2013-2017: Biometric Bulletin Correspondence, 2011-2017: Conference Advisory Committee 2016-2017, Chair 2018-2023)
- Biometric Society of Japan (Council member, 2009-present; President, 2023-present)
- Japan Statistical Society

7. Recent publication (*: corresponding author)

8. Zhou Yi, Ao Huang, *Hattori S. Sensitivity analysis for reporting bias on the time-dependent summary receiver operating characteristics curve in meta-analysis of prognosis studies with time-to-event outcomes. Research Synthesis Methods. Accepted.2025

9. *Hattori S and Uno H. On sample size determination for augmented tests based on restricted mean survival time in randomized clinical trials. Biometrical Journal 67(2). DOI: 10.1002/bimj.70046. 2025.

10. Tang C, Zhou Yi; Huang A, *Hattori S. A simple sensitivity analysis method for unmeasured confounders via linear programming with estimating equation constraints. Statistics in Medicine 44(3-4). DOI: 10.1002/sim.10288. 2024.

11. Hu T, Zhou Y, *Hattori S. Sensitivity analysis for publication bias in meta-analysis of sparse data based on exact likelihood. Biometrics 80(3). DOI: 10.1093/biomtc/ujae092. 2024

12. Zhou Y, Huang A, *Hattori S. Nonparametric worst-case bounds for publication bias on the summary receiver operating characteristic curve. Biometrics 80(3). DOI: 10.1093/biomtc/ujae080. 2024

13. Uno H, Tian L, Horiguchi M, Hattori S, Kehl K. Regression Models for Average Hazard. Biometrics 80(2), DOI: 10.1093/biomtc/ujae037. 2024

14. *Hattori S, Morita S. Frequentist analysis of basket trials with one-sample Mantel-Haenszel procedures. Statistics in Medicine 42(26), 4824-4849, DOI: 10.1002/sim.9890, 2023

15. Mizutani S, Zhou Y, Tian Y, Takagi T, Ohkubo T, *Hattori S. DTAmetasa: an R shiny application for meta-analysis of diagnostic test accuracy and sensitivity analysis of publication bias. Research Synthesis Methods 14, 916-925, DOI: 10.1002/jrsm.1666, 2023

16. Komukai S and *Hattori S. Asymptotic justification of maximum likelihood estimation for the proportional excess hazard model in analysis of cancer registry data. Japanese Journal of Statistics and Data Science 6(1), 337–359, DOI:

10.1007/s42081-023-00190-6, 2023

17. Huang A, Morikawa K, Friede T, *Hattori S. Adjusting for publication bias in meta-analysis via inverse probability weighting using clinical trial registries. Biometrics 79(3), 2089-2102. DOI:10.11111/biom.13822. 2022

18. Zhou Y, Huang A, *Hattori S. A likelihood-based sensitivity analysis for publication bias on the summary ROC in meta-analysis of diagnostic test accuracy. Statistics in Medicine 42, 781-798, DOI:10.1002/sim.9643, 2022

19. *Hattori S, Komukai S, Friede T. Sample size calculation for the augmented logrank test in randomized clinical trials. Statistics in Medicine 41(14), 2627-2644, DOI: 10.1002/sim.9374, 2022

20. Huang A, Komukai S, Friede T, *Hattori S. Using clinical trial registries to inform Copas selection model for publication bias in meta-analysis. Research Synthesis Methods 12(5), 658–673, DOI:10.1002/jrsm.1506, 2021

21. *Hattori S and Zhou XH. Summary concordance index for meta-analysis of prognosis studies with survival outcome. Statistics in Medicine 40(24), 5218-5236, DOI: 10.1002/sim.9121, 2021

Math-Empowered Design of New Biomaterials Contributing to Life Science and Medicine

- **Project abstract:**

The primary goal of our collaborative project is to generate a new stronghold "Math-Empowered Materials Science for Life Science and Medicine" that showcases the unique strength of the HeKKSaGOn Alliance. For the next three years (2024 – 2027), the lead coordinator, Takashima (macromolecular chemistry, Osaka) proposes a new direction, "Math-Empowered Materials Design" together with new two co-coordinators from materials science, Mahmoudi (mathematical modeling, Tohoku) and Urayama (polymer physics, Kyoto). The three coordinators will take the lead to predict, design and characterize new biomaterials that help us overcome limit of widely used plastic dishes and chemically crosslinked hydrogels. The other two-co-coordinators, Bastmeyer (cell and neurobiology, KIT) and Tanaka (biophysics, Heidelberg), will connect materials science and life and medical sciences, e.g. Sleeman (cancer metastasis, Heidelberg) and Sato (brain development, Osaka). We believe that the combination of the five coordinators' expertise makes our project highly unique and strong. Towards the "real" applications, our project is supported by strong engineers who develop new experimental modalities, e.g. Korvink (μNMR, KIT) and Saijo (sonographic microscopy, Tohoku). This will put our research activities in line with the Sustainable Development Goal, "Global Health and Well-Being". Our joint project aims to facilitate knowledge exchange and research-based education. As described in the project proposal, we will use the HeKKSaGOn fund not for the PIs but for the students and junior researchers. We plan to organize three "HeKKSaGOn Spring Schools" to foster the personal exchange, which was not possible during the pandemic. Finally, we would like to emphasize that we successfully had spontaneous turnovers of the members by thematically inviting junior PIs and assistant professors, which enhances the sustainability of the HeKKSaGOn Alliance.

Lead coordinator:

Name: Yoshinori Takashima

Position: Professor

Institution: The University of Osaka

Department, Faculty: Graduate School of Science, Department of Macromolecular Science

Co-coordinator:

Name: Motomu Tanaka

Position: Professor

Institution: Heidelberg University

Department, Faculty: Institute for Physical Chemistry

Curriculum Vitae

Name: **Yoshinori TAKASHIMA**

Title: Professor

Affiliation: Osaka University, Graduate School of Science, Toyonaka, Osaka 560-0043, Japan

Telephone: +81-06-6850-5447

E-mail: takasima@chem.sci.osaka-u.ac.jp

Website: https://www.chem.sci.osaka-u.ac.jp/lab/takashima/

Education: B. Eng. Kyoto Institute of Technology, 1998
M. Sci. Osaka University, 2000
Dr. Sci. Osaka University, 2003

Current Appointments:
Osaka University, Professor (2018 - present)

Selected Awards:
2014 Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, the Young Scientists' Prize
2009 Award for Encouragement of Research in Polymer Science, Society of Polymer Science, Japan

Research Interests:
Supramolecular materials, catalysts, molecular motors and devices

Selected Representative Publications:
1) Yamaoka, K.; Wada, T.; Ogasa, I.; Komyo, T.; Luo, C.; Ikura, R.; Hino, M.; Yamada, M.; Seto, H.; Fujii, Y.; Uetsuji, Y.; Takashima, Y. Supramolecular Interface Engineering via Interdiffusion for Reusable and Dismantlable Polymer Adhesion. *Adv. Mater.* **2025**, in press. (DOI:10.1002/adma.202507939)

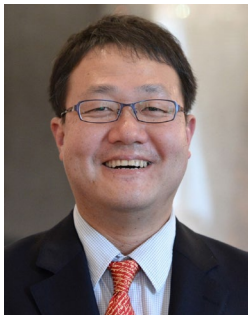
2) Liu, J.; Ikura, R.; Yamaoka, K.; Sugawara, A.; Takahashi, Y.; Kure, B.; Takenaka, N.; Park, J.; Uyama, H.; Takashima, Y. Exploring Enzymatic Degradation, Reinforcement, Recycling and Upcycling of Poly(ester)s-Poly(urethane) with Movable Crosslinks. *Chem* **2025**, *11*, 102327. (DOI:10.1016/j.chempr.2024.09.026)

3) Iwaso, K.; Takashima, Y.; Harada, A. Fast Response Dry-Type Artificial Molecular Muscles with [c2]Daisy Chains. *Nat. Chem.* **2016***, 8,* 625-632.

4) Takashima, Y.; Hatanaka, S.; Otsubo, M.; Nakahata, M.; Kakuta, T.; Hashidzume, A.; Yamaguchi, H.; Harada, A. Expansion-Contraction of Photoresponsive Artificial Muscle Regulated by Host-Guest Interactions. *Nat. Commun.* **2012***, 3,* 1270.

5) Nakahata, M.; Takashima, Y.; Yamaguchi H.; Harada, A. Redox-Responsive Self-Healing Materials Formed from Host-Guest Polymers. *Nat. Commun.* **2011***, 2,* 511.

Curriculum Vitae



Name: **Motomu TANAKA**

Title: Professor

Affiliation:

Heidelberg University, Institute of Physical Chemistry, 69120 Heidelberg, Germany

Kyoto University, Graduate School of Medicine, 606-8502 Kyoto, Japan

Telephone: +49-6221-544916

E-mail: tanaka@uni-heidelberg.de

Website: https://www.pci.uni-heidelberg.de/bpc2/index.html

Education:

	MSc	Kyoto University, 1993
	PhD	Kyoto University, 1998
	Habilitation	Technical University Munich, 2005

Current Appointments:

Heidelberg University, Professor (2005 -)
Kyoto University, Visiting Professor (2024 -)

Selected Awards:

2014 Phillip Franz von Siebold Prize from German President
2007 Bronze Medal, Fonds der Chemischen Industrie
2001 Emmy Noether Fellow, German Science Foundation (first non-German recipient)

Research Interests:

Physics of Soft and Biological Interfaces, Biophysics of Diseases and Development

Selected HeKKSaGOn Publications:

1) Nakahata, M.*; Sumiya, A.; Ikemoto, Y.; Nakamura, T.; Dudin, A.; Schweiger, J.; Yamamoto, A.; Sakai, S.; Kaufmann, S.; Tanaka, M.* (2024), Hyperconfined bio-inspired Polymers in Integrative Flow-Through Systems for Highly Selective Removal of Heavy Metal Ions. ***Nature Communications*** 2024, 15, 5824. **press released**
2) Munding, N.; Fladung, M.; Chen, Y.; Hippler, M.; Ho, A. D.; Wegener, M.*; Bastmeyer, M.*; Tanaka, M.* (2024), Bio-Metamaterials for Mechano-Regulation of Mesenchymal Stem Cells. ***Advanced Functional Materials*** 2301133. **back cover**
3) Hippler, M.; Weißenbruch, K.; Richler, K.; Lemma, E. D.; Nakahata, M.; Richter, B.; Barner-Kowollik, C.; Takashima, Y.; Harada, A.; Blasco, E.; Wegener, M.*; Tanaka, M.*; Bastmeyer, M.* (2020), Mechanical stimulation of single cells by reversible host-guest interactions in 3D microscaffolds. ***Science Advances*** 6 (39). **press released**
4) Weissenfeld, F., Wesenberg, L., Nakahata, M., Müller, M.*, and Tanaka, M.* (2023). Modulation of wetting of stimulus responsive polymer brushes by lipid vesicles: experiments and simulations. ***Soft Matter*** 2023, 19, 2491-2504. **cover**
5) Munding, N., Schlagheck, C., Wittbrodt, J., Ho, A. D., Takashima, Y., & Tanaka, M. (2025). One-Step Surface Functionalization of Hydrogel-Based, Stimulus-Responsive 3D Microstructures for Human Stem Cells. ACS ***Applied Materials & Interfaces***, 17(24), 35316-35327.
6) Linke, P., Munding, N., Kimmle, E., Kaufmann, S., Hayashi, K., Nakahata, M., Takashima, Y., Sano, M., Bastmeyer, M., Holstein, T., Dietrich, S., Müller-Tidow, C., Harada, A., Ho, A. D., & Tanaka, M.* (2024), Reversible Host–Guest Crosslinks in Supramolecular Hydrogels for On-Demand Mechanical Stimulation of Human Mesenchymal Stem Cells. ***Advanced Healthcare Materials***, 13(10), 2302607.
7) Veschgini, M.; Suzuki, R.; Kling, S.; Petersen, H.; Abuillan, W.; Kaufmann, S.; Burghammer, M.; Engel, U.; Stein, F.; Özbek, S.; Holstein, T.W.*; Tanaka, M.* (2023) Wnt/β-catenin signaling induces axial elasticity patterns of Hydra extracellular matrix. ***iScience*** 26, 106416.
8) Kimura, T., Aoyama, T., Nakahata, M., Takashima, Y., Tanaka, M., Harada, A., & Urayama, K.* (2022). Time–strain inseparability in multiaxial stress relaxation of supramolecular gels formed via host–guest interactions. ***Soft Matter***, 18(26), 4953-4962
9) Nakahata, M.*, Okamoto, C., Tanaka, M., & Hashidzume, A. (2025). Cadmium Ion Adsorption Properties of Polyanions Carrying Carboxylate and Thiol-Containing Amino Acid Residues. ***ACS Applied Polymer Materials***, 7(12), 7789-7797.
10) Hayashi, K., Matsuda, M., Mitake, N., Nakahata, M., Munding, N., Harada, A., Kaufmann, S., Takashima, Y., & Tanaka, M.* (2022). One-Step Synthesis of Gelatin-Conjugated Supramolecular Hydrogels for Dynamic Regulation of Adhesion Contact and Morphology of Myoblasts. ***ACS Applied Polymer Materials***, 4(4), 2595-2603. **cover**

Novel Neural Network Architectures for Wearable Biosignals

- **Project abstract:**

The healthcare system is changing rapidly from reactive disease care towards predictive, preventive, personalized and participatory (P4) health care. Embedded in this revolutionary shift are wearable devices, e.g. smart watches, garments or patches as enabling technologies towards this aim. They enable continuous observation of various health parameters such as heart rate, sleep patterns, activity levels and thereby offer an objective and real-time assessment of the personal health status. Although these devices are not always as accurate as medical-grade hardware, they have proven valuable for various use cases and see increasing adoption in clinical guidelines. In this project, we combine the expertise of three partners from technical departments as well as medical centers: Kyoto University, Karlsruhe Institute of Technology (KIT) and University of Göttingen. All three partners have a complementary track record in the field of electrocardiography (ECG) -- the electrical measurement of the human heart -- which will be combined to work towards the aim of P4 medicine for cardiovascular health. Next to the research work, this project offers a summer school on "Artificial Intelligence in Biomedical Applications" for all HeKKSaGOn partners and in-depth intercultural experience for multiple students.

The lead coordination from Göttingen and the co-coordinator from Kyoto already have an active cooperation that was initialized in the framework of the HeKKSaGOn online event "Seven Dialogues for Future Research and Science" and was deepened in meeting in person in the framework of the "9th Japanese - German University Presidents' Conference - 21/22 September 2023" and resulted in a joint research project which is currently under review at the IEEE EMB 2024 conference. This network will be expanded by involving partners from KIT.

- **Lead coordinator:**

Name: Dagmar Krefting

Position: Professor

Institution: University of Göttingen

Department, Faculty: University Medical Center Göttingen / Institute for Medical Informatics

Contact information		University Medical Center Göttingen Department of Medical Informatics Von-Siebold-Straße 3 Phone: +49 551 39-61500 E-Mail: dagmar.krefting@med.uni-goettingen.de URL: https://medizininformatik.umg.eu/ ORCID: 0000-0002-7238-5339
Research focus		Collaboration platforms for biomedical research. A particular focus is on the cross-institutional sharing and analysis of multidimensional biosignal recordings, such as ECG and EEG, but also sensor data collected via wearables. A further focus is on the security, reproducibility and reliability of the research environments, including deep learning methods.
Affiliation		Director of the Department of Medical Informatics, University Medical Center Göttingen, Germany
Professional career	Since 2021	Director (W3) of the Department of Medical Informatics, University Medical Center Göttingen
	2019 - 2021	Acting Head of the Department of Medical Informatics, University Medical Center Göttingen
	2016 - 2021	Head of the Center for Biomedical Image and Information Processing (CBMI), HTW Berlin
	2015	Visiting Professor, Sleep Center, People's Hospital, Beijing, China
	2011 - 2021	Professor for Computer Science (W2), Berlin University of Applied Sciences (HTW Berlin)
	2004 - 2011	Postdoc, Department of Medical Informatics, Charité - Universitätsmedizin Berlin
	2004	Postdoc, Dept. of Physical Chemistry, Fritz Haber Institute Berlin
	1999 - 2003	Research Associate, Third Institute of Physics, Georg-August University Göttingen
Academic education and training	2009	Certificate "Medical Informatics" (equivalent to specialist recognition) of the German Informatics Society (GI) and German Society for Medical Informatics, Biometry and Epidemiology (GMDS)
	2008 - 2009	Continuing Education Health Care Manager in the qualification program of the Charité - Universitätsmedizin Berlin
	2003	Doctorate (Dr. rer. nat.) in Physics, Georg-August University of Göttingen
	1995	Diploma in Physics, Georg-August-University Göttingen
	1991 - 1999	Study of Physics and Chemistry, Georg-August-University Göttingen
Positions/memberships	Since 2020	Since 2020 Head of the working group Medical Image and Signal Processing - joint working group of the Department of Med. Informatics and Med. Bioinformatics and Systems Biology (GMDS)
	Since 2019	Member DICOM working group WG-32
	2019	Member of the GWDG awarding committee
Prizes and awards	2018	Research Award of the HTW Berlin
	2003	Doctoral Award of the Berlin – Ungewitter Foundation
Roles, national infrastructure		Medical Informatics Initiative (MII); HiGHmed: UMG site spokesperson, Use Case Cardiology coordinator (with Prof. Dr. Udo Bavendiek), CAEHR coordinator (with Prof. Dr. Udo Bavendiek), Education Task Force spokesperson.
		Network University Medicine (NUM); coordinator NUM COMPASS, working group leader B-FAST, coordinator NUM-NUKLEUS (with Prof. Dr. Peter U. Heuschmann and Univ.-Prof. Dr. Jörg Janne Vehreschild), coordinator Codex+ (with PD Dr. med. Sven Zenker).
		German Center for Cardiovascular Research (DZHK): Coordinator Data Processing and Transfer Office of the DZHK Heart Institute.

Displacement and Detention in History and Historical Memory: Germany and Japan in Comparative and Transcultural Perspective

- **Project abstract:**

In the first half of the 20th century, Europe and Asia experienced two World Wars full of brutality and violence, which was not limited to the battlefields. During and after the war civilians and combatants were suffering from acts of internment, displacement and repatriation (as one form of forced migration) on a large scale. This project examines the themes of displacement and detention in the history and historical memory of Germany and Japan from a comparative and transcultural perspective. In particular, the project's researchers focus on topics such as the internment of German prisoners of war (POWs) in Japan during the First World War; German and Japanese overseas migration related to economic change and empire-building (or modernization); repatriation (in Japanese Hikiage 引揚げ)/displacement of POWs, military personnel and overseas citizens (civilians) during and after WW1 and WW2; and the repatriation of remains and commemoration of war dead in both countries.

Utilizing various historical, transcultural and cultural anthropological approaches the projects' researchers seek to uncover and reinterpret the often-overlooked role of displacement (including wartime detention) in the historical transformations of both societies, as well as how each society has come to terms with the past (Vergangenheitsbewältigung) by examining the history of remembrance activities and memory culture (including memorial culture) in Germany and Japan. The joint-fieldwork in both countries, joint-workshops (both of which will include graduate students), and joint-courses, as well as the potential for an exhibition on German POWs in Japan at Heidelberg University, will produce a blend of research output (articles are aimed at leading peer-reviewed journals), public-outreach and educational activities. The project aims to build a strong platform to expand this international collaboration with a future grant bid for JSPS-DAAD funds.

- **Lead coordinator:**

Name: Dr. Steven Ivings

Position: Associate Professor

Institution: Kyoto University

Department, Faculty: Economics

- **Co-coordinator:**

Name: Dr. Takuma Melber

Position: Coordinator of the Master's in Transcultural Studies

Institution: Heidelberg University

Department, Faculty: Heidelberg Centre for Transcultural Studies (HCTS), Philosophical Faculty

Dr. **Steven Ivings**

Associate Professor, Graduate School of Economics, Kyoto University

ivings.stevenedward.8a@kyoto-u.ac.jp

Education

PhD Economic History, London School of Economics, 2014

MA Japanese Studies, School of Oriental & African Studies, 2007

BSc Economic History, London School of Economics, 2006

Academic Positions

2021 April ～ Present Associate Professor, Kyoto University, Graduate School of Economics

2017 July ～ Mar. 2021 Senior Lecturer, Kyoto University, Graduate School of Economics

2014 Oct. ～ 2017 June Assistant Professor, Heidelberg University, Heidelberg Centre of Transcultural Studies

Adjunct/Visiting Scholar: Georg-August Universität Göttingen; Ritsumeikan University; University of Glasgow; Waseda University

Publications

Books/Thesis

2024 *Contesting Memorial Spaces of Japan's Empire* (Bloomsbury Academic) (co-edited with Edward Boyle) (link)

2023 *Heritage, Contested Sites, and Borders of Memory in the Asia Pacific* (Brill) (co-edited with Edward Boyle) (link)

2018 *Global Diasporas in the Age of High Imperialism* (Peter Lang) (co-edited with Ulrike Kirchberger) (link)

2015 *Colonial Settlement and Migratory Labour in Karafuto 1905-1941*, PhD Thesis in Economic History (open-access via LSE Thesis Online)

Journal Articles/Book Chapters (most recent only)

Forthcoming "Kyoto and End of Empire Migration: Repatriation and Resettlement in Kyoto City and Prefecture" *Japan Review link* **Early Access**

2025 "'In the Shower of Bullets and Smoke of the Cannon': British Observations and Trade During the Northern Campaigns of the Boshin War" in T. French (ed.) *New Perspectives on Peacetime Anglo–Japanese Military Relations: Old Friends, New Partners* (Routledge link)

2024 "In the Black Ships' Wake: Early American Enterprise at Treaty Port Hakodate" *Pacific Historical Review* 93/1 (link)

2023 "The Socioeconomic Reintegration of Repatriates: Evidence from Gifu Prefecture" in S. Paichadze & J. Bull (eds.) *End of Empire Migrants in East Asia* (Routledge - Link)

External Funding (ongoing only)

2024-2027 - German-Japanese University Network (HeKKSaGOn) Project – "Displacement and Detention in History and Historical Memory: Germany and Japan in Comparative and Transcultural Perspective" ¥1,650,000

2024-2026 - Grant-in-Aid for Scientific Research (C) Project No. 24K04983 "A Business History of Treaty Port Firms and Shipping in Japan" ¥2,860,000

Dr. Takuma Melber
Coordinator of the MA Transcultural Studies and Lecturer at the Heidelberg Centre for Transcultural Studies (HCTS), Heidelberg University

e-mail: takuma.melber@hcts.uni-heidelberg.de

Curriculum Vitae (EXCERPT)

Education

Doctorate	October 2009 to March 2016: Dissertation at Johannes Gutenberg University Mainz: „Zwischen Kollaboration und Widerstand: Die japanische Besatzungspolitik in Malaya und Singapur, 1942-1945“ (summa cum laude; awarded with the *Förderpreis für Militärgeschichte und Militärtechnikgeschichte 2017 (2. Platz); two research stays at London School of Economics and Political Science (LSE) and at the Institute of Asia-Pacific Studies, Waseda University, Tokyo)*
Magister Artium (M.A.)	summer semester 2003 to summer semester 2009: Johannes Gutenberg-University of Mainz and one semester abroad at University of Zurich in 2006; fields of study: Medieval and Modern History, Ancient History and Sociology (overall grade: 1,0 (very good)) MA-thesis „Die japanische Besatzung der malaiischen Halbinsel und Singapurs, 1942-1945: Kollaboration und Widerstand“ [“Malaya and Singapore under Japanese Occupation, 1942-1945: Collaboration and Resistance”] *(awarded with the Wilhelm-Deist-Preis für Militärgeschichte 2009)*

Academic Positions

since November 2016 Coordinator of the MA Transcultural Studies and wissenschaftlicher Mitarbeiter/Lecturer at the Heidelberg Centre for Transcultural Studies

February/March 2024 Visiting Researcher at the History Department, Kyushu University

February to April 2024 Visiting Researcher at Graduate School of Letters, Kyoto University

March 2020 Erasmus+ Guest Lecturer at Vienna University

March 2019 Erasmus+ Guest Lecturer at Vienna University

May/June 2018 ISAP-Visiting Professor, Ōsaka University

March/April 2018 Visiting Researcher at the Center for Southeast Asian Studies, Kyoto University

Selected Publications

Books

Together with Frank Engehausen (Ed.): Kriegsende 1945. Transnationale Analysen einer globalhistorischen Zäsur, Frankfurt am Main 2025 (Campus; forthcoming).

Together with Kerstin von Lingen (Hg.): Kriegsschauplatz Asien. Historische und globale Perspektiven, Paderborn et al. 2025 (BRILL/Schoeningh, forthcoming).

Zwischen Kollaboration und Widerstand. Die japanische Besatzung in Malaya und Singapur (1942-1945), Frankfurt am Main 2017 (Campus).

Pearl Harbor. Japans Angriff und der Kriegseintritt der USA, München 2016 (C.H. BECK).

Pearl Harbor. Japan‘s Attack and America’s Entry into World War II, Cambridge 2020 (Polity Press).

Articles

Der Zweite Weltkrieg in Asien. Japan und das Kriegsende 1945. In: informationen - Wissenschaftliche Zeitschrift des Studienkreises Deutscher Widerstand 1933-1945, Nr. 101, Frankfurt am Main 2025, 32-38.

Die Erinnerung an den alliierten Luftangriff auf Tokio (10. März 1945). Eine Ausstellung in Tokio betont den Stellenwert von Zeitzeug*innen, in: Zeitgeschichte-online, 10. März 2025, (URL: https://zeitgeschichte-online.de/themen/die-erinnerung-den-alliierten-luftangriff-auf-tokio-10-maerz-1945)

Ein stolpernder Gigant. Die USA und das Ende des Vietnamkriegs. In: Militärgeschichte. Zeitschrift für Historische Bildung, Heft1/2025, 6-13.

Spuren des Lokalen Erinnerns an einen Großadmiral (Gensui). Die Yamamoto Isoroku-Gedenkstätte (Yamamoto Isoroku Kinenkan) in Nagaoka. In: Portal Militärgeschichte, 17. April 2023, URL: https://portal-militaergeschichte.de/melber_spuren)

Vom Pazifismus zur Konfrontation? Japan und der russisch-ukrainische Krieg, in: Zeitgeschichte-online, 22. März 2022,
URL: https://zeitgeschichte-online.de/themen/vom-pazifismus-zur-konfrontation)

Das Leid der Eigenen. 1945 in der japanischen Erinnerungskultur. In: Aus Politik und Zeitgeschichte (Zeitschrift der Bundeszentrale für Politische Bildung) „1945“, Heft 4-5, Bonn 2020, 17-24.

The impact of the ‘China experience’ on Japanese Warfare in Malaya and Singapore. In: Alan Kramer, Javier Rodrigo, Miguel Alonso (Ed.), Fascist Warfare 1922-1945: Aggression, Occupation, Annihilation, Cham 2019 (Palgrave Macmillan), 169-193.

The Labour Recruitment of Local Inhabitants as Rōmusha in Japanese Occupied Southeast-Asia. In: International Review of Social History (IRSH), Special Issue 24: Conquerors, Employers and Arbiters: States and Shifts in Labour Relations, 1500-2000, Cambridge 2016, 165-185.

Current Research Projects

- Together with Dr. Steven Ivings (Kyoto University) and Dr. Ikuno Ochi (Tohoku University): *Displacement and Detention in History and Historical Memory: Germany and Japan in Comparative and Transcultural Perspective* (HeKKsaGOn-, July 2024 to September 2027).

- *Digitales Tsingtauarchiv: Deutsche Soldaten in japanischer Kriegsgefangenschaft während des Ersten Weltkriegs.*

Awards

- Förderpreis für Militärgeschichte und Militärtechnikgeschichte 2017 (2. Platz)
- Wilhelm-Deist-Preis für Militärgeschichte 2009

ECLIPSE – Edu-larp for Climate Learning and Innovative Practices in Sustainable Education

- **Project abstract:**

With a focus on climate change, this project aims to develop a framework for role-playing scenarios tailored to different target groups, including elementary and higher education and business. These scenarios are designed for direct use by the target groups and can be customized to meet individual requirements, allowing them to explore and tackle critical issues and transformations within their societies. Thus, the project aims to engage participants in immersive learning environments and to instigate a profound reflection and evaluation process that underscores long-term learning effects. By fostering 21st-century skills such as critical thinking, empathy, creativity and collaboration, the project directly contributes to realizing the UN SDGs related to health, education, equality, sustainable communities, and justice. It offers a pathway to transformative education, preparing individuals to tackle challenges in their everyday lives and beyond. The project will design two sample scenarios as so-called edu-larps (educational live-action role-plays), one dealing with the complexities of climate change and mental health and the other focusing on the nuances of transcultural interactions regarding nutrition practices and food waste. Each will be linked to relevant initiatives, encouraging participants to take responsible action and thus promoting agency. Immersive learning scenarios promote changes in perspective, enabling participants to understand and appreciate diverse viewpoints. Participants are expected to develop a deeper understanding of the complexities tied to sustainability and equity and to foster intrinsic motivation for creative solutions. This comprehensive approach may equip participants to contribute to societal transformation, aligning their efforts with the SDGs. Analyzing their long-term learning effects and building upon the evaluation of the sample edu-larps, the project aspires to develop a generative AI-powered role-play configurator. This tool will enable others, e.g., educators and social workers, to prepare similar experiences.

In summary, the project presents a model for how creative engagement combined with reflection and evaluation may contribute to cultivating skills, understanding, and motivation essential for creating a more just and sustainable world.

Project website: https://www.eclipse.bun.kyoto-u.ac.jp/

- **Lead coordinator:**

Name: Björn-Ole Kamm

Position: Junior Associate Professor

Institution: Kyoto University

Department, Faculty: Graduate School of Letters, Transcultural Studies

- **Co-coordinator:**

Name: Sandra Barteit

Position: Research Group Leader

Institution: Heidelberg University Hospital, Heidelberg Institute of Global Health

Department, Faculty: Global Health (Climate Change and Health)

CURRICULUM VITAE: Björn-Ole KAMM (ECLIPSE Lead PI)

Contact: kamm.bjornole.7e@kyoto-u.ac.jp **Phone**: +81 (0) 75-753-2462
Personal Website: www.b-ok.de **Program Website**: www.cats.bun.kyoto-u.ac.jp/jdts/
HeKKSaGOn Project Website: www.eclipse.bun.kyoto-u.ac.jp/

Researcher IDs
ORCID: https://orcid.org/0000-0002-8585-9177
Researchmap: https://researchmap.jp/bjorn-ole-kamm

Date of CV: 2025/09/09

Academic Professional History

(including HeKKSaGOn-project related third-party funding)

07/2019– 03/2024	**JSPS Transcultural Learning Project** (Grants-in-Aid KAKENHI)	***Principal Investigator*** Educational larp on neurodiversity
05/2019 – today	**Japanese Journal of Analog Role-Playing Game Studies** (RPG 学研究)	***Editor-in-Chief*** (Diamond OA journal)
12/2017 – today	**Kyoto University** Graduate School of Letters	***Junior Associate Professor*** Coordinator of Joint Degree MA Program in Transcultural Studies (JDTS)
04/2017 – 03/2024	**International Research Center for Japanese Studies**	***Research Fellow*** "Popular Culture as Social Movement" (2017-22); "Reading Yanagita" (2022-24)
04/2016 – 03/2018	**FOST Project on Social Withdrawal** (Found. Fusion of Science & Technology)	***Principal Investigator*** Edu-larp on social withdrawal
03/2015 – 11/2017	**Kyoto University** Graduate School of Letters (Center for the Promotion of Interdisciplinarity in Education and Research)	***Program Specific Senior Lecturer*** "Courses on Asian and Transcultural Studies" program; JDTS preparation
04/2013 – 03/2015	**Heidelberg University** Cluster of Excellence "Asia and Europe"	***Graduate Program Lecturer*** Graduate Program in Transcultural Studies
11/2012 – 02/2013	**Kyoto University** GCOE "Intimate and the Public Spheres"	***Research Fellow***
04/2011 – 11/2012	**Heidelberg University** Cluster of Excellence "Asia and Europe"	***Research Area Coordinator*** Research Area "Knowledge & Environment"
10/2009 – 03/2011	**Leipzig University** East Asia Institute (Japanese Studies)	***Research Assistant***

Studies

04/2011 – 03/2015	**Heidelberg University** Faculty of Philosophy/ Karl Jaspers Center for Advanced Transcultural Studies	***Doctorate*** (Friedrich-Ebert-Foundation scholarship)
06/2010 – 10/2010	**German Institute for Japanese Studies** (DIJ Tokyo)	***Doctoral Fellow***
03/2005 – 03/2006	**Ritsumeikan University Kyoto** College of Social Sciences	***Exchange year abroad*** (DAAD scholarship)
10/2002 – 07/2008	**Leipzig University** Japanese Studies (1st major), Communication & Media Studies (2nd)	***Magister Artium*** (Master of Arts)

Research Output (selection)

Complete list of publications available at: www.b-ok.de/download/kamm_pubs.pdf

Monographs and Edited Volumes

Kamm, Björn-Ole; Scherer, Elisabeth; Hülsmann, Katharina; Thelen, Timo. 2026 (in prep). *Japanische Popkultur: Fans, Märkte, Medien* [Japanese Popculture: Fans, Markets, Media]. Weinheim, Beltz.

Kamm, Björn-Ole. 2020. *Role-Playing Games of Japan – Transcultural Dynamics and Orderings*. New York: Palgrave.

Galbraith, Patrick; Kamm, Björn-Ole; Kam, Thiam Huat. 2015. *Debating Otaku in Contemporary Japan – Historical Perspectives and New Horizons*. London, Bloomsbury.

Peer-reviewed Articles

Kamm, Björn-Ole. 2025a. "Transcultural Learning with Role-Playing Games: Awareness through First-Person Experiences." *Mechademia* 17 (2): 229-246. https://muse.jhu.edu/pub/23/article/960869.

Kamm, Björn-Ole. 2019a. "A Short History of Table-Talk and Live-Action Role-Playing in Japan: Replays and the Horror Genre as Drivers of Popularity." *Simulation & Gaming* 50 (5): 621-44. doi:10.1177/1046878119879738.

Kamm, Björn-Ole. 2019b. "ライブ・アクション・ロールプレイ(LARP)という意識向上を目的としたシリアス・ゲーミング方法:「ひきこもり」についての LARP を例に" [Live-Action Role-Play (Larp) as a Serious Gaming Tool for Awareness Raising: The Case of hikikomori (Acute Social Withdrawal)]. *Japanese Journal of Occupational Science* 13 (1): 32-44. doi:10.32191/jjos.13.1_32.

Kamm, Björn-Ole. 2019c. "Adapting Live-Action Role-Play in Japan: How 'German' Roots Do Not Destine 'Japanese' Routes." *Replaying Japan* 1, pp. 64-78. https://hdl.handle.net/10367/11682.

Non-refereed Articles and Book Chapters

Kamm, Björn-Ole. 2025b. "Embodied Play in Japan: From Escape Rooms to Larp (Live-Action Role-Play)." In Hutchinson, Rachael (ed.), *The Handbook of Japanese Games and Gameplay*. Tokyo: Japan Documents Press; Amsterdam: Amsterdam University Press, 81-95.

Kamm, Björn-Ole. 2024. "生成 AI とのアプリ開発について：文化越境的学習用のための reLarp" [App Development with Generative AI: reLarp for Transcultural Learning]. *Medical Imaging Technology* 42 (3): 79‐86. https://doi.org/10.11409/mit.42.79.

Kamm, Björn-Ole. 2022. "Reenacting Japan's Past That Never Was – The Ninja in Tourism and Larp." In Vanessa Agnew, Juliane Tomann und Sabine Stach (eds.), *Reenactment Case Studies: Global Perspectives on Experiential History*. London: Routledge, 146-170.

Kamm, Björn-Ole. 2021. "負けるためのプレイ・盛り立てるプレイ――ＬＡＲＰでの共同創造的なストーリーテリング [Play to Lose, Play to Lift – Co-creative Storytelling in Larp]. In Ōtsuka Eiji, 運動としての大衆文化 [Popular Culture as Movement]. Tokyo: Suiseisha, 313–332

Public Artistic, Design, and Programming Activities: Civic Education (edu-larps)

Kamm, Björn-Ole and Katō Kōhei. 2016. *Village, Shelter, Comfort.* Educational live-action role-play (edu-larp). https://www.b-ok.de/vsc_larp/ (see Kamm 2019b)

Kamm, Björn-Ole; Nebe, Carola; Katō Kōhei. 2023. *Sirius -- 11F84 -- Colours of Light*. Educational live-action role-play (edu-larp). https://11f84.larpwright.online/ (see Kamm 2025a; KAKEN-19KT0028)

Ando, Yuta; Baber, William; Barteit, Sandra; Clynes, Peter; Kamm, Björn-Ole; Restrepo, Andrés Ramírez. 2025. *The Tavern: A Drama Game about Climate Denial*. Educational live-action role-play (edu-larp). https://www.eclipse.bun.kyoto-u.ac.jp/material/drama-game-the-tavern/

ICT-Software, Tools

Kamm, Björn-Ole. 2023. *reLarp.* Debriefing and reflection tool (PAC analysis). https://github.com/larpGit/relarp

CURRICULUM VITAE: Sandra BARTEIT (ECLIPSE Co-PI)

Contact: barteit@uni-heidelberg.de **Phone**: +49 (0) 6221-56-34030
Personal Website: www.klinikum.uni-heidelberg.de/.../sandra-barteit
Research Group Website: www.ukhd.de/digitalGH
HeKKSaGOn Project Website: www.eclipse.bun.kyoto-u.ac.jp/

Researcher IDs
ORCID: https://orcid.org/0000-0002-3806-6027
Researchgate: www.researchgate.net/profile/Sandra-Barteit

Date of CV: 2025/09/09

Academic Professional History

01/2015 – today	**Heidelberg University Hospital** Heidelberg Institute of Global Health	***Research Group Leader*** Research Group Digital Global Health

Studies

07/2023 – 04/2025	**HEC Paris** Innovation and Entrepreneurship	***Master of Science (MSc)***
01/2021 – 08/2022	**Georgia Institute of Technology** Analytics	***Master of Science (MSc)***
05/2015 – 02/2020	**Heidelberg University Hospital** Global Health	***MB/PhD***
10/2007 – 08/2011	**Heidelberg University** Computational Linguistics	***Master of Arts (MA)***

Research Output (selection)

Complete list of publications available on PubMed:
www.ncbi.nlm.nih.gov/myncbi/1Jq06AZvZvJQV/bibliography/public/

1. Barteit S, et al. (2020). "Evaluation of e-learning for medical education in low- and middle-income countries." Computers & Education, 145, 103726. This systematic review assessed the impact of e-learning in LMICs, showing improvements in knowledge retention and accessibility. My contribution: Led the review, data extraction, and analysis. [DOI: 10.1016/j.compedu.2019.103726]
2. Introductory MOOC: "Climate Change and Health" (iversity). This MOOC provides an introduction to the links between climate change and public health, equipping learners with foundational knowledge to address health challenges. My contribution: Conceptualization, curriculum development, and stakeholder engagement.
3. Harvard Collaboration: "The Health Effects of Climate Change" (edX)Developed in collaboration with Harvard University, this MOOC explores climate-related health risks and policy interventions on a global scale. My contribution: Co-development of content and expert contributions.
4. Francophone MOOC: "Changement climatique et santé en contexte africain" (FUNMOOC). This MOOC addresses climate and health challenges specific to the African context, offered in French to enhance accessibility. My contribution: Course co-creation, localization, and content adaptation.
5. Advanced MOOC: "Research Methods in Climate Change and Health" (HIGH-Edu). An advanced course focusing on research methodologies for studying the health impacts of climate change, tailored for researchers and practitioners. My contribution: Lead instructor, module design, and research dissemination.
6. Barteit S, et al. (2021). "Wearable technology in global health: Opportunities and challenges." Frontiers in Public Health. This study examined the application of wearable devices to monitor health impacts

in climate-sensitive settings. My contribution: Methodology design, data analysis, and writing. [DOI: 10.3389/fpubh.2021.647129]

7. Barteit S, et al. (2023). "Artificial intelligence for climate and health research: A transdisciplinary perspective." The Lancet Planetary Health. This paper discusses the potential of AI-driven solutions to enhance climate adaptation strategies in health. My contribution: Lead author, conceptual framework development. [DOI: 10.1016/S2542-5196(23)00123-5]
8. Barteit S, et al. (2019). "Blended learning for healthcare workers in Zambia: Lessons learned from a sustainable model." BMC Medical Education. This study provided evidence on the effectiveness of blended learning approaches in healthcare training. My contribution: Project leadership, content development, and impact assessment. [DOI: 10.1186/s12909-019-1724-2]
9. Barteit S, et al. (2020). "A mobile app for tracking health data in extreme climate conditions." JMIR mHealth and uHealth.Development of a mobile application to track health data in climate-vulnerable populations. My contribution: Conceptualization, implementation, and piloting. [DOI: 10.2196/20456]
10. Barteit S, et al. (2021). "The role of socio-environmental determinants in heat-related health outcomes." International Journal of Environmental Research and Public Health. This study explored key social and environmental determinants influencing heat-related health risks. My contribution: Data collection, statistical analysis, and interpretation.[DOI: 10.3390/ijerph182312345]

Digital Solutions for Aging Societies: Harnessing AI and Robotics for Personalized Assistance

- **Project abstract:**

The aging population trend in Japan, Germany, and other countries underscores the need for personalized physical and mental support for the elderly and disabled. This requires a comprehensive understanding of their conditions, intentions, and activities. Robotics plays a vital role, offering various forms of physical assistance like humanoid robots and wearable devices. Integrating sensors and actuators into the environment enhances its intelligence, enabling analysis of individuals' behaviors and needs.

To provide effective support, modeling individuals and environments in digitalized cyber environments is essential. This allows for deriving appropriate support in the digital realm and implementing it in the real world using robots and devices. Collaboration between AI and robotics researchers from six universities in Japan and Germany, facilitated by HeKKSaGOn, drives advancements in human-assistive research. Initiatives like joint research projects focus on developing AI and robot technology to support the elderly and disabled.

Looking ahead, research projects within HeKKSaGOn will target the development of robots and AI for geriatric users, including vision-based control and social interaction. Efforts will extend to children and adults to foster social participation across generations. Initiatives like Inclusive Dance showcase interdisciplinary collaboration, involving professionals from various fields beyond engineering.

The project will encourage interdisciplinary research involving AI, robotics, psychology, and rehabilitation. It will organize workshops with young students and researchers to envision a society in 2050 coexisting with AI robots. These workshops foster a shared vision and collaborative research across disciplines, essential for developing young talent. Sessions will cover AI, robotics, digital twins, and building an inclusive society using new technologies, providing participants with insights into future societal needs.

- **Lead coordinator:**

Name: Yasuhisa Hirata

Position: Professor

Institution: Tohoku University

Department, Faculty: Department of Robotic, Graduate School of Engineering

- **Co-coordinator:**

Name: Katja Mombaur

Position: Professor

Institution: Karlsruhe Institute of Technology (KIT)

Department, Faculty: Institute for Anthropomatics and Robotics (IAR), Optimization and Biomechanics for Human Centred Robotics (HCR), Faculty for Informatics

Yasuhisa Hirata

Professor, Graduate School of Engineering,
Tohoku University, Japan
Special Advisor for Industry-University Collaboration, Tohoku University
Project Manager, Moonshot R&D Program Goal 3, JST
Web: https://srd.mech.tohoku.ac.jp/en/
Scopus Author ID: 7402006534

Education

Ph.D.
Graduate School of Engineering, Tohoku University, Japan *(2004)*
Master
Graduate School of Engineering, Tohoku University, Japan *(2000)*

Positions

Professor, Graduate School of Engineering, Tohoku University, Japan
(2016 - present)
Associate Professor, Graduate School of Engineering, Tohoku University, Japan
(2007-2016)
Visiting Researcher, The Université de Versailles Saint-Quentin-en-Yvelines, France
(2012)
Research Associate, Graduate School of Engineering, Tohoku University, Japan
(2000-2006)

Project Experience

Project Manager, Moonshot Research & Development Program Goal 3, Japan Science and Technology Agency
(2020 - present)
CO-PI, Transformative Garment Production, InnoHK: Innovation and Technology Commission
(2020-2025)
PI, Motion Control for Safe and Low-Power Consumption Assistive Systems, Japan Society for the Promotion of Science (JSPS)
(2016-2019)
PI, Precursory Research for Embryonic Science and Technology: PRESTO, Japan Science and Technology Corporation (JST)
(2002-2006)

Supervision of Students

Master's Students: 86, Ph.D. Students: 25

Other Professional Experiences

Division Chair, System Integration Division, The Society of Instrument and Control Engineers

(2024-2025)

Chair of Technical Committee Clusters on Healthcare and Medical Robotics, IEEE Robotics & Automation Society

(2023-present)

Administrative Committee Member, IEEE Robotics & Automation Society

(2020-2025)

Co-Chair of Technical Committee on Rehabilitation and Assistive Robotics, IEEE Robotics & Automation Society

(2016-2023)

Board Member, Robotics Society of Japan

(2015-2017)

Track Record : Total Publications: more than 300

Selected Publications

- Y Zhang et al. (2025). "Multi-Critic Reinforcement Learning for Garment Handling: Addressing Unpredictability in Temporal-Phase Continuous Contact Tasks." IEEE Transactions on Automation Science and Engineering.
- J Terayama et al. (2024). "Concept and prototype development of adaptive touch walking support robot for maximizing human physical potential." IEEE Robotics and Automation Letters.
- Z Liao et al. (2023). "Running guidance for visually impaired people using sensory augmentation technology based robotic system." IEEE Robotics and Automation Letters.
- AA Ravankar et al. (2022). "Care: Cooperation of ai robot enablers to create a vibrant society." IEEE Robotics & Automation Magazine.
- K Yamamoto et al. (2022). "A novel single-stroke path planning algorithm for 3D printers using continuous carbon fiber reinforced thermoplastics." Additive Manufacturing.

Awards and Prizes

- Fellow, Robotics Society of Japan (2025)
- Japan Society of Mechanical Engineers, ROBOMEC Academic Achievement Award (2025)
- IEEE/RSJ IROS Distinguished Service Award (2024)
- Best Application Video Award, 2024 IEEE 20th International Conference on Automation Science and Engineering (2024)
- Toshio Fukuda Best Paper Award in Mechatronics, 2020 IEEE International Conference on Mechatronics and Automation (2020)
- The 6th Nagamori Award (2020)

CURRICULUM VITAE - PROF. DR. KATJA MOMBAUR

Chair in Optimization and Biomechanics for Human Centred Robotics, Director of KIT BioRobotics Lab, Karlsruhe Institute of Technology (KIT), Germany
Adjunct Professor and former Canada Excellence Research Chair in Human Centred Robotics and Machine Intelligence, University of Waterloo, Canada
katja.mombaur@kit.edu
katja.mombaur@uwaterloo.ca
+49-721-608-47128

PROFESSIONAL APPOINTMENTS

Since 05/2023	Chair in Optimization and Biomechanics for Human-Centred Robotics (endowed Chair by Hector foundation 2), Full Professor (W3), Director of KIT BioRobotics Lab, Karlsruhe Institute of Technology (KIT), Faculty of Computer Science, Institute for Anthropomatics and Robotics (IAR)
Since 4/2025	Adjunct Professor, University of Waterloo
03/2020 – 04/2025	Canada Excellence Research Chair in Human-Centred Robotics and Machine Intelligence, Full professor, University of Waterloo (on leave 04/16/2023 - 04/15/2025) Faculty of Engineering, Cross-appointed in Applied Mathematics
04/2017 – 02/2020	Full Professor (W3) and Chairholder Optimization, Robotics and Biomechanics(ORB), Institute of Computer Engineering (ZITI), Heidelberg University, Germany
04/2010 – 03/2017	Full Professor (W3) for Scientific Computing at Interdisciplinary Center for Scientific Computing (IWR), Head of ORB Research Group, Heidelberg University, Germany
04/2008 – 03/2010	Researcher at LAAS-CNRS, Toulouse (RIA, Gepetto group), France
12/2002 – 03/2008	IWR, Heidelberg University, Germany, Postdoc, then Junior Research Group
03/2002 – 10/2002	Seoul National University, Seoul, South Korea, Postdoc
09/1997 – 11/2001	IWR, Heidelberg University Research Assistant
06/1995 – 07/1997	IBM Germany, Stuttgart / Böblingen, Systems Engineer / Technical Sales

EDUCATION

1197 - 2001	Interdisciplinary Ph.D. in Applied Mathematics, grade: „summa cum laude“, Heidelberg University
1989 – 1995	Diploma Studies of Aerospace Engineering at the University of Stuttgart (Dipl-Ing.) sehr gut
1993 – 1994	Integrated Studies at the Ecole Nationale Supérieure de l’Aéronautique et de l’Espace,Toulouse France

SUPERVISION OF PHD STUDENTS AND POSTDOCTORAL FELLOWS

- 24 PhD students in Mathematics, Computer Science and Engineering (19 completed, 5 in progress (2 at KIT, 1 co-tutelle U Waterloo/KIT, 2 at U Waterloo)
- 19 Postdocs (16 completed, 3 in progress (KIT))

KEYNOTES & OTHER PRESENTATIONS:

I have been invited to give >30 keynotes & plenaries at a number major conferences in different fields, such as Robotics, e.g. IEEE ICRA 2017 Singapore, IEEE/RSJ IROS 2018 Madrid, Ubiquitous Robotics 2024 New York, ; Biomechanics, e.g. NAKOB 2022 (North American Congress on Biomechanics), Soc. de Biomécanique Reims, 2017; Artificial Intelligence, e.g. KI 2021 Berlin (virtual); Biomedical Engineering, e.g. EMBC 2025, Copenhagen; Neurorehabilitation, e.g. ICNR 2018, Pisa; Multibody Dynamics, e.g. IMSD2018), Lisbon; Control, e.g. NMPC 2024, Kyoto; Mechanical Engineering, e.g. Canad. Soc for Mech. Eng., 2022.

In addition, I gave >80 invited presentations at workshops, conferences and research institutions, > 120 other scientific presentations, >15 talks at summer schools / tutorials, >40 public talks.

PUBLICATIONS

>70 journal publications, >30 book chapters, >100 conference publications

Some recent examples:

- Peter Q Lee, John Zelek, Katja Mombaur - Case study on Force Compliant Robot Arm Controller for Nasopharyngeal Swab Insertion, Scientific Reports, 2025
- Anas Mahdi, Zonghao Dong, Jonathan Feng-Shun Lin, Yue Hu, Yasuhisa Hirata, Katja Mombaur- Real-Time Sit-to-Stand Phase Classification With a Mobile Assistive Robot From Close Proximity Utilizing 3D Visual Skeleton Recognition, IEEE Robotics & Automation Letters, 2025
- Giorgos Marinou, Ibrahima Kourouma, Katja Mombaur . Development and Validation of a Modular Sensor-Based System for Gait Analysis and Control in Lower-Limb Exoskeletons. Sensors, 2025, 25
- Thomas Gerhardy, Laura Schmidt, Hans Werner Wahl, Katja Mombaur, Lizeth Sloot - Do aging suits adequately simulate objective age-related decline in gait? A kinematic comparison of induced aging in young and middle-aged adults, Educational Gerontology, 1-15
- Peter Q Lee, John Zelek, Katja Mombaur - Robotic Eye-in-hand Visual Servo Axially Aligning Nasopharyngeal Swabs with the Nasal Cavity, in IEEE Transactions on Medical Robotics and Bionics, doi: 10.1109/TMRB.2025.3550667, 2025
- Jan Lau, Katja Mombaur - Can lower-limb exoskeletons support sit-to-stand motions in frail elderly without crutches? A study combining optimal control and motion capture, Frontiers in Neurorobotics, 2024
- Pranav Barot, Katja Mombaur, Ewen N. MacDonald - Estimating speaker direction on a humanoid robot with binaural acoustic signals- PLOS One, Jan 2024
- Monika Harant, Matthias B. Näf, Katja Mombaur - Multibody dynamics and optimal control for optimizing spinal exoskeleton design and support, Multibody System Dynamics, Jan 2023

OTHER CURRENT ACTIVITIES / DISTINCTIONS (SELECTION)

IEEE RAS Vice President Member Activities, 2024-2025
Senior editor of IEEE Transactions on Robotics (since 2023)
KIT Spokesperson HIDSS4Health (since 2025)
IEEE RAS Distinguished Lecturer

RESEARCH INTERESTS

- **Biomechanical analysis and improvement of human movement:**
  Experimental and computational studies of human movement; Activities of Daily Living; Motions in sports; Change of motions and motor capabilities over the human life span; Stability and robustness of movement; Human push recovery; Effects of physical impairments and pathologies on motions; Motions of persons with mental disorders; Emotional body language in humans; Motor control; Natural locomotion trajectories
- **Wearable robots, rehabilitation robots and intelligent assistive devices:**
  Lower limb exoskeletons for motion assistance and rehabilitation; Spinal exoskeletons for back pain prevention and reintegration; Mobility assistance robots for older adults; Prostheses in sports; Everyday lower limb prostheses; Robot-assisted gait rehabilitation; Functional electrical stimulation for upper and lower limbs (FES); Wearable sensors for medical applications
- **Humanoid robots & human-robot interaction (HRI):**
  Dynamic whole-body motion generation and control for humanoids; Endowing humanoid robots with motion intelligence; Manipulation of objects with complex dynamics and use of complex vehicles; Benchmarking humanoid robots in real life situations; Close proximity physical-social human-humanoid interaction; Robots for COVID testing and other medical support tasks, Robots in Elderly Care and supporting persons with impairments; Overimitation of robots by children
- **Efficient models, digital twins, optimization and other algorithms:**
  Realistic modeling of humans and robots and their interactions (MBS models, hybrid MBS-FES models); Optimal control-based motion generation and control; Inverse optimal control; Reinforcement learning for motion generation and control, Real time control; Combination of model-based and model-free /data driven methods for control; AI-based motion classification.

The Digital World: Data Science, Artificial Intelligence, and Robotics

- **Project abstract:**

Data science, artificial Intelligence, and robotics are major forces to change our societies. For example, deep neural networks and machine learning have by now massively changed many application fields from science to industry. It is obvious that these methods will continue to strongly influence all of us and potentially pave our way to reach the UN social development goals.

Science has an obligation to shape this development by providing the necessary basic research, its application as well as by teaching and training young scholars of these fields. As artificial intelligence poses many questions in terms of privacy, ethics and social impact, we also need to critically engage in discussions about how to balance (perceived) dangers with (potential) benefits. HeKKSaGOn is a network of six research universities from Japan and Germany, which are committed to collaborate on these subjects. HeKKSaGOn has a track record in these topics through its working groups: Data Science, Robotics and Mathematics. While working on specific domain topics, we see the need to broaden our activities through a joint initiative. Thus, we propose the organization and implementation of two actions focused on the topic: "The Digital World: Data science, artificial Intelligence, and robotics" which are:

- In 2021 International Summer School paired with an on-line conference and
- In 2022 International Summer School paired with a life conference.
- Webinar series which enhances collaboration opportunity and extend outreach.

- **Lead coordinator:**

Name: Prof. Ramin Yahyapour

Position: Managing Director and CIO

Institution: University of Göttingen

Department, Faculty: Computer Science Institute

Curriculum Vitae

Dr. Ramin Yahyapour

Dr. Ramin Yahyapour is Professor of Applied Computer Science at the Georg-August University of Göttingen since 2011. His research interests lie in eScience and research infrastructures for collaborative, data- and computational-intensive research, as well as artificial intelligence. He publishes regularly at relevant journals and conferences.

Dr. Yahyapour is Chief Information Officer of the University Medical Center and the University of Göttingen. In this role, he is jointly responsible for the site's digitization strategy. He is co-founder and speaker of the board of the Campus Institute Data Science at the University of Göttingen. In addtion, he is co-founder and director of the Center for Causal AI in Medicine (CAImed).

Ramin Yahyapour is managing director of the Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen (GWDG), the joint IT competence and computing center of the Max Planck Society and the University of Göttingen. The GWDG is one of nine National High Performance Computing Centers in Germany (NHR), one of the National AI Service Centers (KISSKI), part of the Europan AI Factories (HammerHAI) and partner of several consortia of the National Research Data Infrastructure (NFDI). GWDG is also supercomputing hub of the German Aerospace Center (DLR). GWDG ranks as one of the top scientific computing centers in Germany.

Dr. Yahyapour serves on several national and European advisory boards on infrastructure and digitalization strategies. He is co-founder and speaker of the German council of CIO in higher-education. He is member of the German Council for Information Infrastructures (RfII).

Personal Data

Title	Professor PhD
First name	Ramin
Name	Yahyapour
Current position	Full Professor at Institute of Computer Science (Chair of Practical Informatics) Managing Director of the GWDG (Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen) Chief- Information-Officer of the University of Göttingen and the University Medical Center Göttingen
Current institution(s)/site(s), country	Practical Informatics, University of Göttingen, Germany GWDG (Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen), Germany University of Göttingen and the University Medical Center Göttingen, Germany
Identifiers/ORCID	0000-0002-9057-4395

Qualifications and Career

Stages	**Periods and Details**
Degree programme	1996-2022 Doctorial Study, Faculty Electrical Engineering and Information Technologies, Supervisor: Prof. Schwiegelshohn, TU Dortmund, Germany
Doctorate	2002 Conferral of doctorate, Doctor of Information engineering), University of Dortmund, Supervisor: Prof. Dr. Uwe Schwiegelshohn, Germany
Stages of academic/professional career	Since 2014 CIO, University of Göttingen and University Medical Department Göttingen Since 2011 Managing Director GWDG Since 2011 Full Professor at University of Göttingen, Germany 2009-2011 Full Professor in Applied Computer Science, Chair on Service Computing, TU Dortmund University, Germany 2007-2011 Director Compute and Media Center/CIO, TU Dortmund University, Germany Since 2002-2007 Post-Doc, Information Technology/Robotics Institute, TU Dortmund University, Germany

Awards and Professional Activities

Since 2024	Director of the Lower-Saxony Center for AI in Causal Medicine (CAImed)
Since 2020	Spokesperson of the Campus Institute Data Science (CIDAS), University of Göttingen
2018-2022	Co-Coordinator of the HIGHmed Consortium funded through the Medical Informatics Initiative Germany
Since 2017	Director Göttingen of National Supercomputing Centers (NHR)
Since 2017	Speaker Council of German CIOs in Higher-Education
Since 2015	Member of IEEE- Institute of Electrical and Electronics Engineers, New York and Piscataway, USA
2014-2020	Member of the administrative board of the DFN association, the German National Research and Education Network
Since 2014	Member of the Council for Information Infrastructures of the Joint Science Conference (“Rat für Informationsinfrastrukturen der Gemeinsamen Wissenschaftskonferenz”)
Since 2014	Chief Information Officer of the University of Göttingen and the University Medical Center Göttingen
2012-2020	Member of the IT Commission of the German Science Foundation (DFG) and spokesperson of the network commission
Since 2011	Member of BAR, the Advisory committee on computer facilities (“Beratender Ausschuss für EDV-Anlagen”) of the Max Planck Society
Since 2011	Member of the IT-Innovation Cluster of South Lower Saxony
2009-2011	Chief Information Officer of Technical University Dortmund
2008-2011	Scientific Coordinator FP7 Project SLA@SOI (SLA-Service Level Agreements for a SOI – Service-orientated Infrastructure)
2024-2008	Leader of the Institute and member of the administrative board of CoreGRID Network of Excellence

Research Fields

- Artificial Intelligence
- High Performance Computing and Cloud Computing
- Big Data Analytics and Data Management

Supervision of Researchers in Early Career Phases

Dr. Yahyapour is strongly committed to training of excellent young researchers and to support their early scientific independence. He has supervised MSc (64), and PhD (41) students as well as post-doctoral fellows (12). Several of former students and associates moved to independent research positions in academia. Moreover, he supported research stays, scholarships and training programmes at GWDG.

Scientific Results

H-Index: 41 (Feb 2025)
Google-Scholar: https://scholar.google.de/citations?user=BUIdFgEAAAAJ&hl=de
ORC-ID: https://orcid.org/0000-0002-9057-4395

Category A (selected 10)

1. Yang, S., Jiao, L., **Yahyapour, R.**, Cao, J. (2022). Online Orchestration of Collaborative Caching for Multi-Bitrate Videos in Edge Computing. IEEE Transactions on Parallel and Distributed Systems. 33. 1-14.
2. Varnosfaderani, S., Kasprzak, P., Pohl, C., **Yahyapour, R.** (2021). SmartSSO - A Deep Learning Platform for Automated Account Linkage in Federated Identity Management.
3. Yang, S., Li, F., Trajanovski, S., **Yahyapour, R**., Fu, X, (2020) Recent advances of resource allocation in network function virtualization, IEEE Transactions on Parallel and Distributed Systems 32 (2), 295-314
4. González García, J.L., **Yahyapour, R.**, Tchernykh, A., (2019) Graph Partitioning for FEM Applications: Reducing the Communication Volume with DSHEM, International Conference on High Performance Computing & Simulation (HPCS).
5. Zhang, F., Liu, G., Zhao, B., Kasprzak, P., Fu, X., **Yahyapour, R.** (2019) CBase: Fast Virtual Machine storage data migration with a new data center structure, Journal of Parallel and Distributed Computing 124, 14-26.
6. Zhao, B., Li, Y., Han, L., Zhao, J., Gao, W., Zhao, R., **Yahyapour, R.** (2018) A Practical and Aggressive Loop Fission, Algorithms and Architectures for Parallel Processing: ICA3PP 2018 International Workshops, Guangzhou, China, November 15-17, 2018.
7. Song, Y., Wieder, P., **Yahyapour, R.**, Trajanovski, S., Fu, X. (2017) Reliable Virtual – A Policy-Based Schema to Classify and Manage Sensitive Data in Cloud Storage. Journal of Information Security and Applications 36:11-19.
8. Mohebi, A., Aghabozorgi, S. R., Wah Teh, Y., Herawan, T., **Yahyapour, R.** Machine Placement and Routing in Clouds. IEEE Transactions on Parallel and Distributed Systems 28:2965-2978.
9. Moghaddam, F., Wieder, P. **Yahyapour, R.** (2017) Policy Management Engine (PME) (2016) Iterative big data clustering algorithms: a review. Software – Practise and Experience 46:107-129.
10. Azodolmolky, S., Nejabati, R., Pazouki, M., Wieder, P., **Yahyapour, R.**, Simeonidou, D. (2013) An analytical model for Software Defined Networking: a network calculusbased approach. 2013 IEEE Global Communications Conference (GLOBECOM):1397-1402.

4. Venue Information

The University of Osaka
Venue: Icho Kaikan (Suita Campus)
Address: 1-1 Yamadaoka, Suita, Osaka 565-0871, Japan
Nearest Train / Monorail Stations:
- Osaka Monorail: Handai-Byoin-Mae Station (approx. 5–10 min walk)
- Osaka Metro Midosuji Line: Senri-Chuo Station

Campus Map (PDF):
https://www.osaka-u.ac.jp/en/access/top
Building 11 on the campus map

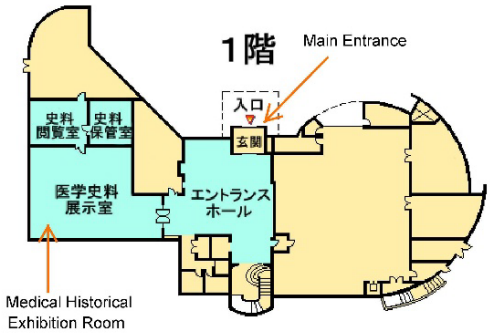
VIDEO Walking Route from Handai-Byoin-Mae Station to Icho Kaikan

https://youtu.be/8Jqs_f0BlxA

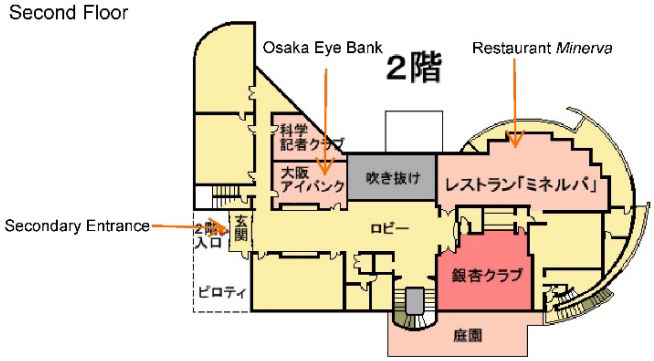
Icho Kaikan Floor Layout

FLOOR	MAIN FACILITIES
3F	Reception Desk, Hankyu Railway & Sanwa Bank Hall (Main Conference Hall), Foyer, Meeting Rooms
2F	Secondary Entrance, Restaurant *Minerva*, Osaka Eye Bank
1F	Entrance Hall (Main Entrance), Medical Historical Exhibition Room

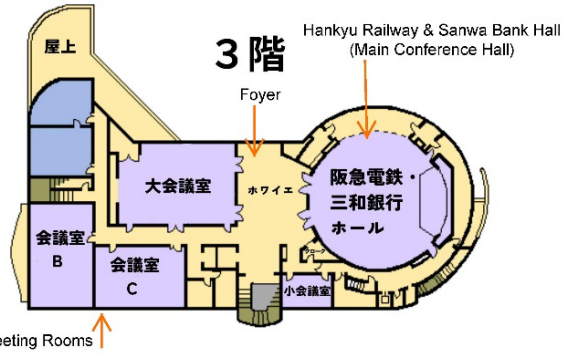
First Floor



Second Floor



Third Floor



5. Access & Transportation

Below are the recommended routes to reach the venues and hotel for the HeKKSaGOn Presidents' Conference.

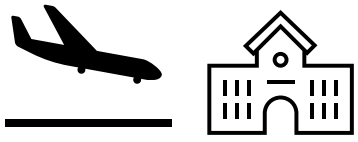
✈ From Kansai International Airport (KIX) to The University of Osaka (Suita Campus, Icho Kaikan)

Recommended Route (approx. 1.5-2 hrs total)

1. Take the JR Kansai-Airport Express "Haruka" to Shin-Osaka Station — approx. 52 min.
2. From Shin-Osaka Station (JR), transfer to the Osaka Metro Midosuji Line (direction: Minoh-Kayano) → get off at Senri-Chuo Station (M08) — approx. 13 min.
3. At Senri-Chuo Station, transfer to the Osaka Monorail (direction: Kadoma-shi).
4. Get off at Handai-Byoin-Mae Station (Station 12) — approx. 6 min.
5. Exit the ticket gates and turn left toward The University of Osaka campus. Follow the pedestrian route for about 8 minutes to reach Icho Kaikan (Building 11 on the campus map).

Alternative Route (via Namba) (approx. 1 hr 15–1 hr 30 min total)

1. Take the Nankai Rapi:t Limited Express to Namba Station — approx. 35 min.
2. From Namba Station, transfer to the Osaka Metro Midosuji Line (direction: Minoh-Kayano) → get off at Senri-Chuo Station (M08) — approx. 30 min.
3. From Senri-Chuo Station, transfer to the Osaka Monorail and follow the same route to Icho Kaikan as above.



🏨 From Kansai International Airport (KIX) to RIHGA Royal Hotel Osaka

Recommended Route (approx. 1 hr 10 min total)

1. Take Airport Limousine Bus bound for Osaka Station (Hotel New Hankyu) approx. 60 min.
2. From Osaka Station, take the free RIHGA Royal Hotel Shuttle Bus (every 15 min, 7:45–22:00) from the West Exit (Sakurabashi Gate). The ride takes about 10 minutes.

Alternative

Take Nankai Rapi:t limited express to Namba Station (approx. 35 min).
From Namba, take a taxi to hotel (approx.15 min).

🚕 Taxi Information

- From Kansai International Airport (KIX) to Suita Campus (Icho Kaikan): approx. 1.5–2 hours / JPY 20,000–25,000
- From Osaka Station to Suita Campus: approx. 40–50 min / JPY 6,000–8,000
- From Senri-Chuo Station to Suita Campus (Icho Kaikan): approx. 15–20 min / JPY 2,500–3,000
- From RIHGA Royal Hotel Osaka to Suita Campus: approx. 35–45 min / JPY 7,000–9,000
- From RIHGA Royal Hotel Osaka to Toyonaka Campus: approx. 30–40 min / JPY 6,000

🚌 From RIHGA Royal Hotel Osaka to The University of Osaka

Conference Charter Bus (recommended)

Date: 30 October (Thu)

- **Departure:** 9:00 AM (sharp) from the main entrance of RIHGA Royal Hotel Osaka
- **Destinations:**
  - **CiDER**, Suita Campus
  - **Near QIQB**, Toyonaka Campus (After the optional tour, the bus will continue to Icho Kaikan at Suita Campus.)

Date: 31 October (Fri)

- **Departure:** 8:00 AM (sharp) from the main entrance of RIHGA Royal Hotel Osaka
- **Destination: Co-Creative Innovative Building**, Suita Campus

✧ *You may board the bus (RIHGA Royal Hotel Osaka → The University of Osaka) even if you do not attend the morning program, provided you are at the hotel before departure. The bus will depart on time, so please be punctual.*

If you miss the bus:

1. Walk to Nakanoshima Station→ take Keihan Line to Yodoyabashi Station (KH01) (via Temmabashi sta. KH03) (15 min).
2. Change to Osaka Metro Midosuji Line (bound for Minoh Kayano) → get off at Senri-Chuo Station (M08) (approx. 25 min).
3. Take Hankyu Bus (bound for Handai-Honbu-Mae) → get off at Handai-Honbu-Mae (15–20 min).

Total travel time: about 1 hour

Notes

- ✧ Please allow extra time during morning rush hours (7:30–9:00).
- ✧ IC cards: Use an ICOCA, Suica, or Kansai One Pass for smooth transfers between JR, Metro, Monorail, and Bus lines.
- ✧ University name: The official English name is now "The University of Osaka", but some older campus signs may still display "Osaka University."
  The Japanese abbreviation "Handai" is also commonly used in station names, bus stops, and local guidance.

6. Contact Information

International Affairs Division, The University of Osaka
Email: intl-collab@office.osaka-u.ac.jp
Phone: +81-(0)80-3108-3639 (for contact on the conference days) / Backup: +81-(0)90-5153-3319
Tel: +81-(0)6-6879-4408 (International Affairs Division office)