



Adachi, Hitomi

## Research theme

Shaping career consciousness through comprehensive studies, the impact of UNESCO activities on youth career-shaping

## Research field

Educational Methodology, Career Education, Classroom Analysis

<https://soar-rd.shinshu-u.ac.jp/profile/en.WCkmjhkh.html>

Numerous classes conducted globally represent only the tip of the iceberg of human learning, which extends beyond the confines of schools and classrooms. Likewise, although a “daylight star” is invisible to the naked eye, it continues to shine. It is through learning that people build and move their lives. In my laboratory, we pursue learning and living, valuing both the visible and invisible.



Aoyama, Takumi

## Research theme

Psychology of language learning, L2 motivation among Japanese learners of English

## Research field

English Language Teaching, Second Language Acquisition

<https://soar-rd.shinshu-u.ac.jp/profile/en.jeSajUkV.html>

Successful second language acquisition depends on effective instruction and individual factors such as reducing anxiety about language use and motivation to engage in learning. My research aims to explore the roles of individual differences in second language acquisition in the Japanese language learning environment.

I have published papers and book chapters, including “Equifinality approach to exploring the learning trajectories of language learners and teachers” in *Complexity Perspectives on Researching Language Learner and Teacher Psychology* (Aoyama & Yamamoto, 2020); “Conceptualization and operationalization in L2 task engagement research: Taking stock and moving forward” in *Language Teaching* (Aoyama et al., 2024); “Longitudinal L2 motivation inquiry: A response to Lamb’s (2016) ‘When motivation research motivates: Issues in long-term empirical investigations’” in *Innovation in Language Learning and Teaching* (Consoli & Aoyama, 2020).

See <https://sites.google.com/view/aoyama-elt/publications> for a full, updated list of publications.



Chino, Kimiho

## Research theme

Proofs in school mathematics, Geometry education curriculum learning in a 3D dynamic geometric environment

## Research field

Subject Pedagogy, Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.Ohfmjhkh.html>

To meet the challenges of educational practice, we devise the knowledge necessary for educational guidance for teaching elementary school arithmetic and junior high and high school mathematics.

I consider what children need to learn, what content is necessary to learn, and how to evaluate their learning as well as teaching. From the perspective of “stability” and “trends,” we also design ICT-based learning environments, such as mathematics education software, to stay relevant and adapt to evolving needs.



Chino, Rie

## Research theme

Psychological approach to various problems in educational settings, Signs of children, Not attending school, School safety, Team support

## Research field

School Psychology, Educational Clinics

<https://soar-rd.shinshu-u.ac.jp/profile/en.yhDpbmkF.html>

I have published the following works: “Signs of worrying children at school”; “Signs about families that teachers should know”; and “School safety from the health center and staff rooms—Case studies in illness, emergency, and crisis management.”

I focus on prevention, early detection, and early response to various problems in the education field and investigate what can be done to minimize psychological problems when problems occur. Practically, I provide daily psychological support to children in educational support centers and school counseling rooms and conduct suicide prevention activities for young people.



Jung, Hyojung

#### Research theme

Family and home life education in home economics, International comparative study of home economics, Gender

#### Research field

Family Management, Family and Home Life Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jpyVjpkV.html>

Family management refers to a family's intention to determine the direction of the lives of its members and effectively implement common family goals. In line with this, I investigate planned activities that make effective use of family resources such as people, objects, time, money, and information.

Furthermore, within the field of family management in home economics, I explore the state of the family and home life education.

I have previously researched the gender role division of labor and attitudes toward family and home life and participated in international comparative research on home economics curricula and textbooks.



Dalton, Colleen

#### Research theme

L2 writing, Culture

#### Research field

Communicative Language Teaching

<https://soar-rd.shinshu-u.ac.jp/profile/en.ymDauUkV.html>

Among others, I have authored or co-authored the following papers: "Navigating the multis of multiliteracies: A poster presentation unit for language learners," *Studies on Educational Practices* 21, 2022; "Uncovering culture inside the classroom: A look at language," *The Language Teacher* 44(6), 2020; "Writing to communicate: Exploring the potential of a classroom 'community of practice'," *Shinshu University Journal of Educational Research and Practice* 13, 2019; "Developing communicative writing skills through reading activities: Noticing social and linguistic contexts," *Shinshu University Journal of Educational Research and Practice* 11, 2017; and "Common Core State Standards (CCSS) initiative: New stakes in American education reform," *Bulletin of the Faculty of Human Studies Seisen Jogakuin College* 11, 2014.



Enomoto, Satoshi

#### Research theme

Learning and teaching of school algebra, Analyzing students' thinking through their gaze

#### Research field

Subject Pedagogy, Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.WpyFjmyC.html>

I investigate what type of subject matter needs to be used to develop learning guidance to solve learning tasks related to algebraic equations and promote their understanding. I have recently focused on learners' gaze to understand their cognition from multiple perspectives.

I teach the following subjects:

Undergraduate: Fundamentals of teaching arithmetic, Mathematics education teaching materials, Mathematics education evaluation theory

Graduate: Research methods on teaching arithmetic, Mathematics.



Fujimori, Jun-ichi

#### Research theme

Children's formation of the particle concept, Teaching material development, Unit design

#### Research field

Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.HFypjakV.html>

I develop effective teaching materials and units to help elementary and junior high school students grasp the concept of particles. I conduct research using quantitative and qualitative analysis based on records of children's chatter and notes in class. I investigate the changes in children's concepts and the effectiveness of teaching materials and unit development to propose teaching materials and units that are easy for children to understand and for teachers to handle.

Drawing on my research and previous teaching experience, I aim to provide value to students who will teach science in the future.



Fujisaki, Seiya

#### Research theme

Theoretical analysis of economic policies, Use of information on economics content in education

#### Research field

Economics

<https://soar-rd.shinshu-u.ac.jp/profile/en.ONAejVkh.html>

As part of teacher training, I investigate the economics content in social studies.

1. Theoretical analysis of economic policies

Economics includes a variety of research topics, such as labor, financial affairs, monetary affairs, and history. Theory as an analysis method plays the role of a “map,” cutting through the complex reality of economic society and making it easier to understand. The theory is not taught until high school, and thus, students may find economic theory both “difficult” and “new” when studying it at university.

2. Use of information on economics content in education

If you become a teacher, you can teach children statistics to help them understand society and create learning opportunities. I examine how teacher training can support the use of various types of information in education drawing on my classroom practice experiences.



Fujita, Ikuro

#### Research theme

Creating physical education teaching materials, Research on teachers’ instructional language

#### Research field

Physical Education Pedagogy

<https://soar-rd.shinshu-u.ac.jp/profile/en.WpTNjVkh.html>

I have authored the following work: *Introduction to the Creation of Elementary Physical Education Classes; The Current State of Physical Education Pedagogy*.

I develop teaching materials for physical education classes aimed primarily at elementary and junior high schools. I create the content and methods of classes so that all students, regardless of whether they are proficient at physical education, can positively engage in the subject and ultimately say, “I love physical education!” I am working with schools on-site to advance this issue.

Furthermore, teachers need to use appropriate language to help children become proficient at exercising. I am also interested in examining teachers’ language of instruction to find out which words to use and how they can be expressed effectively to guide children.



Fujiwara, Takamasa

#### Research theme

Postwar literature focusing on Takeda Taijun

#### Research field

Modern and Contemporary Japanese Literature

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZeyUjmTe.html>

I have co-authored the following work: “Fluctuations in Shanghai nostalgia: Methods of remembering Taijun Takeda’s Shanghai Firefly,” in *Postwar Shanghai: People’s Search, Border-crossing, and Memories*, Bensei Shuppan, 2019.

I have published the following papers: “Passivity of Chinese poets: Taijun Takeda’s appreciation of Yu Pingbo and its transition,” *Hanshin-Association Modern Japanese Literary Studies* 2018, 5; “JP Sartre as narrative theory: Representation of time in Taijun Takeda’s Fūbaika,” *Memoirs of the Yuge National College of Maritime Technology* 2020, 3.

Translation: *Introduction and Translation of Taijun Takeda’s ‘Japan’s Literary Destiny’: Chinese Criticism of Japanese Residents in Shanghai*, Fenceless, 2019.

I have published the following work: “Research trends: Taijun Takeda,” *Showa Literary Studies* 2021, 3.



Fukuda, Noriko

#### Research theme

Development of teaching materials and class design in the clothing field under home economics

#### Research field

Clothing Studies, Home Economics Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.ymLNgmTh.html>

I have co-authored the following main works: *Teaching Home Economics in Elementary School*, Kenpakusha 2010; *New Edition: Cultivating the Subject of Life*, Domesu Shuppan 2021. I have published the following papers/reports: “Curriculum development and teaching materials for home economics to increase repetition effectiveness of basic sewing skills,” *Shinshu University Journal of Education Research and Practice*, No.18, pp. 227-238, 2024; “A study of the clothing room that elicits creativity of children,” *Shinshu University Journal of Education Research and Practice*, No.18, pp.156-167, 2024; “Clothing practice to develop creativity,” *Shinshu University Journal of Education Research and Practice*, No.18, pp. 55-65, 2024; “Home economics for elementary school fifth graders: Cloth painting activities to cultivate originality and creativity,” *Shinshu University Journal of Education Research and Practice*, No.18, pp. 1-10, 2024; and “Examining experimental and practical teaching materials to elicit interest in laundry of daily clothes,” *Studies on Educational Practices*, No.22, pp. 39-48, 2023.





Fusegi, Hisashi

#### Research theme

Development and practice of autonomous learning to cultivate self-learning abilities, Comprehensive classroom development and teacher competence building.

#### Research field

Educational Methodology, Teacher Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jhLeWhLe.html>

I focus on curriculum research and classroom practices to promote autonomous learning in both subject-specific and interdisciplinary study settings. As a consultant in practical research, my motto is “Creating lessons with children.” I regularly visit elementary, junior high, and high schools on-site. I also explore alternative teaching methods from an international perspective, aiming to avoid uniform application of practices.

After working as a psychological counselor and a social studies teacher in junior high and high schools, I pursued curriculum development theory in my postgraduate doctoral program. I then implemented the curriculum I developed while teaching as an elementary school teacher.

In 2003, I was transferred to Shinshu University, where I took charge of pedagogy and school curriculum. In the Graduate School of Education, I am responsible for fieldwork in remote areas and small schools, as well as overseeing “overseas school clinical practice.”



Hashimoto, Masaharu

#### Research theme

Sports, Media, Community

#### Research field

Sports Sociology

<https://soar-rd.shinshu-u.ac.jp/profile/en.ymfaPpkF.html>

I have edited the following books: *Contemporary Media Sports Theory*, Sekaishissha; *The Sociology of Mega Sports Events: A View of White Stadium*, Nansosha; *Sport Spectator Studies: Structure and Significance of the Stage of Enthusiasm*, Sekaishissha.

Translation: *Are the Olympic Games Changing? The Road to Green Sport*, Douwashoin; *The Sociology of Contemporary Sports—Challenges and the Road to Coexistence*, Nansosha.

I have published the following papers: “The encounter between ‘bodies doing sports’ and ‘bodies living’—Representative Kashima Supporter T and T’s Community”; and “How are media sports a social issue? Media sports in the ‘living space’”; and “Rethinking lifelong sports—From issues concerning sports to those concerning life.”



Hayashi, Kampei

#### Research theme

Global education policy market development, “Export of education,” Education reform in Sweden

#### Research field

Comparative Pedagogy, Educational Administration

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZeTeOpkh.html>

I study education reform globally, mainly in Nordic countries. Education is unique to local history, culture, and institutions. Meanwhile, international academic aptitude tests are influencing policy, and schools worldwide are moving toward standardization. In addition, national brand education models, such as “Finnish-style” and “Japanese-style” models, are being exported to other countries. How should teachers and schools perceive this change? Let us connect the world’s trends with concrete examples and think collaboratively about the future of education.

Among others, I have authored the following works *The Forefront of Nordic Education: Childcare and Learning for Democratic Society*, Akashi Shoten, 2021; “Rethinking policy transfer in comparative education: The case of partnership schools for Liberia,” *The Japanese Journal of Educational Research* 2019, 86(2).

The lab blog can be found at <http://shinshuedu.blogspot.com>.



Hirouchi, Daisuke

#### Research theme

Research on the history of terrain development in Japan and East Asia, clarifying the activity characteristics of active faults, disaster prevention education, and regional disaster prevention research

#### Research field

Physical Geography, Tectonic Geomorphology

<https://soar-rd.shinshu-u.ac.jp/profile/en.WNkajkhk.html>

I have co-authored the following work: *Making the best use of hazard maps*.

Among others, I have published the following papers: “Surface earthquake faults of the 2014 northern Nagano prefecture (Kamishiro Fault Earthquake) in the northern part of the Itoigawa-Shizuoka tectonic line”; “Problems in active fault evaluation raised by the Nagano prefecture Kamishiro fault earthquake”; “Preparing for earthquakes on active faults: Information on active fault and its application”; “A new disaster culture constructed in water damage-stricken areas through civic activities”; “Horizontal and vertical variation of 2004 Indian tsunami deposits: An example of two transects along the western coast of Thailand,” *Marine Geology* 2007, 239(3-4), 163–172; “Fault activity of the Yugamine Fault of the Atera Fault Zone in the Holocene Epoch Research 27”; and “1586 Tensho Earthquake and the latest activity of the Atera Fault Zone.”



Ida, Hideyuki

#### Research theme

My research encompasses three main areas:

1. Ecological research on the regeneration dynamics of beech forests
2. Systematization of traditional ecological knowledge related to satoyama resource use
3. Practical research in nature and forest environmental education

#### Research field

Forest Ecology, Landscape Ecology, and Nature Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZCLVbVkF.html>

Beech forests have been the central focus of my research since undergraduate studies, and ecological research into their regeneration dynamics has become my main area of inquiry. Living in a traditional old house in the snow region of northern Nagano, I explore sustainable ways to utilize the trees and grasses growing abundantly in the satoyama landscape. I hope that students in my laboratory will become schoolteachers who can passionately engage children in the study of fascinating plants found around their schools, inspiring a deeper connection with nature in the next generation.



Ida, Katsuhiro

#### Research theme

Ballet music, Orchestra music analysis

#### Research field

Conducting, Score Reading, Orchestral Instruction

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=yhAUjakV&lang=en&st=researcher>

The charm of music played by orchestras and brass bands lies in its ability to let us reach feelings and emotions we have never felt before. A fascinating aspect of music is exploring which elements of the score are at the root of our feelings and whether there are hidden possibilities for further expression. Students can improve their ability to read musical scores and skills in comprehensive music analysis, and as a music teacher, I provide guidance for children to understand the appeal of as much music as possible. The world of opera and ballet as comprehensive art is captivating. I hope to explore the relationship between words and music—and physical expression and music—and realize music's infinite potential.

Music Director of K-BALLET TOKYO, Music Director of Theater Orchestra Tokyo, Principal Guest Conductor of the Tokyo Grand Philharmonic



Inose, Masanobu

#### Research theme

Research on dry lacquer-making, Research on tactile education

#### Research field

Art Education (Sculpture)

<https://soar-rd.shinshu-u.ac.jp/profile/en.OVcajVkh.html>

I have published the following books: *Circulation of Mimesis in Making Sculptures; Between Art and Education*, Tokyo Geijutsu Shuppankai, 2011

With the human body as the main motif, we carry out production and research using lacquer-stripping techniques. Students learn the basic skills and knowledge necessary for creating sculptures, as well as the educational significance of sculpture activities in human development.

I teach the following classes: Sculpture fundamentals, Sculpture practice, Wood sculpture exercise, Sculpture exercise, and Sculpture expression theory.

My affiliations include Kokugakai, Japan Artists Association, Society for Art Education Studies, and Society of Artistic Anatomy.



Ito, Fuyuki

#### Research theme

Molecular dynamics of the formation process of organic molecules, Study of luminescent organic solid materials

#### Research field

Photochemistry, Organic Physical Chemistry

<https://soar-rd.shinshu-u.ac.jp/profile/en.yCAebCDV.html>

My research pertains to how molecules assemble during the crystal formation process using fluorescent color changes from organic molecules. I also synthesize molecules that emit light when gathered (aggregation-induced emission) and change color when rubbed (mechanochromic luminescence), in addition to well-luminescent organic molecules that can be applied to organic EL devices, solar collectors, and other devices.

Introductory article: "Approaching the mystery of crystal formation and growth with fluorescence," *Chemistry (Kagaku Dojin)* 2016, 71(9), 70–71; "Visualizing the organic crystal nucleation stage using fluorescent molecules and explaining the mechanism," *Chemical Society of Japan*, <http://www.chemistry.or.jp/division-topic/201/06/post-65.html>.



Iwata, Yasushi

#### Research theme

Pedagogical study of physical education classes

#### Research field

Physical Education  
Pedagogy

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=uNACWaLh&lang=en&st=researcher>

I am engaged in a wide range of pedagogical research, including the creation of teaching materials and teaching activities while exploring the goals and learning content of such classes. I aim to conduct classes in physical and health education in elementary and junior high schools. In particular, I am interested in technically deepening the questions of “learning content research” (“what” is taught in physical education) and “teaching material creation” (“what” is used to teach).

My research findings have been compiled into the following publications:

- *Creating Teaching Materials for Physical Education*, Taishukan Shoten, 2012 (sole author)
- *Creating Teaching Materials for Games*, Taishukan Shoten, 2016 (sole author)
- *Theory of Teaching Materials in Physical Education*, Meiwa Shuppan, 2017 (sole author)
- *Introduction to the Developing Elementary Physical Education Classes*, Taishukan Shoten, 2018 (co-author)
- *Quest for Learning Contents in Physical Education*, Taishukan Shoten, 2024 (sole author)



Kambara, Hiroshi

#### Research theme

Research on physical properties focusing on electrical conductivity in joining systems, Development of teaching materials for physics experiments

#### Research field

Condensed Matter Physics (Experiments), Physics Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.HNnUWhLp.html>

I conduct experimental research on physical properties focusing on characteristic phenomena at the edges of a sample and their connection with the interior through electrical conduction measurements at point junctions, broken junctions, and contact interfaces. Specifically, I examine the temporal variation of interfacial electrical resistance of metal oxides in a hydrogen atmosphere and the change of electrical resistance inside and at the interface of hydrogen-absorbing metals during hydrogen absorption and desorption.

In physics education, I develop and research physics demonstration teaching materials in the fields of mechanics and electromagnetism using oxide high-temperature superconductors, neodymium magnets, and liquid nitrogen. Additionally, every year, I conduct preschool classes (mainly in elementary schools) on the “World of ultra-low temperature” using liquid nitrogen.



Kamimura, Etsuko

#### Research theme

Teacher-parent collaboration, Educational counseling and consultation, Assistance for children with high needs

#### Research field

School Psychology, Special Needs Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jakNbVkF.html>

Based on school psychology and special needs education, I facilitate practice and research related to the collaboration between parents and teachers and support for children who are struggling.

I explore challenges difficult to speak about and help everyone deal with the issue in their own way while thinking collaboratively. I aim to be able to provide such support. To this end, carefully understanding each child and their human and material environment is important, as is cooperating with many people. By examining other’s daily practices from this perspective, I aim to hone my expertise in supporting children.



Kaneko, Fumihiko

#### Research theme

English education and literature, English literature from various perspectives, Deciphering English children’s literature

#### Research field

English Literature

<https://soar-rd.shinshu-u.ac.jp/profile/en.yCfNPpkF.html>

At the Faculty of Education, I explore the significance and effectiveness of studying English literature, on teaching English. My recent focus has been on *Alice in Wonderland*. Although this work is popular in Japan as well as the English-speaking world, the Disney version in Japan is well received, whereas the original is quite different—being full of tricks, including wordplay. Using Japanese translations of examples of wordplay, I aim to understand the specific characteristics of Japanese and English, imparting the need to read the original text to fully understand the English version and the cultural background in which language features exist.





Kawakubo, Hideki

#### Research theme

Field-assisted complex finishing machining methods, Magnetic-assisted machining methods and applied technology

#### Research field

Production Engineering, Machining Science, Design Engineering

<https://soar-rd.shinshu-u.ac.jp/profile/en.jeyeOpkh.html>

Magnetic-assisted machining is a new processing technology that compensates for machining areas difficult to process with traditional methods. It is a machining method whereby the machining tool (magnetically linked particle brush) is controlled with a magnetic field to perform surface finishing. It has the following features:

(1) Effective finishing of inaccessible places (inner surfaces) owing to penetration of magnetism.  
(2) Effective surface finishing of step surfaces and free-form curved surfaces and rounding and deburring of edges owing to the magnetic attraction of the particle brush.  
In addition to developing new precision machining technologies, I want students to learn how to study physical phenomena, design and manufacture experimental equipment through research and gain practical skills for teaching material development and research and development.



Kirihiara, Aya

#### Research theme

Intercultural understanding and multicultural coexistence in music education, Music education curriculum in Spain

#### Research field

Music Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZCyFjpkV.html>

In recent years, I have explored music education in Spain to determine how cross-cultural understanding and multicultural coexistence can be realized through music. Furthermore, I am involved in creating music textbooks for elementary schools, aiming to make them enjoyable and easy to understand.

I have published the following elementary school music textbooks: *Gift of Music 1st to 6th Year*, Kyoiku Shuppan; *New Edition of Elementary School Music Teaching Methods*, Kyoiku Shuppan.

Among others, I have published the following papers: "Reflections on music teachers' responses to building relationships among children in a multicultural context—Through an interview survey in Murcia, Spain" "Educación musical en Japón y en España: Análisis del currículo para educación primaria" and "Research trends in music learning in foreign countries."



Kitazawa, Yoshitaka

#### Research theme

Building schools that enhance students' autonomy, Constructing a training system that helps build teachers' competence

#### Research field

School Management, Teacher Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.OmDhbkhF.html>

I have served as the principal of an affiliated school in the Nagano area since this year. I have been considering and practicing the concepts of "student first" and "team support" in public junior high schools and the question of creating schools that nurture the skills students will need in the future.

I research what roles schools and teachers should play for children to develop and become creators of a sustainable society, capable of navigating social change and cooperating with diverse people to lead meaningful lives.



Kobayashi, Hideyo

#### Research theme

Comparative research on writing education, State of handwriting education in the introductory period of learning, Handwriting education for left-handed people, etc.

#### Research field

Handwriting and Calligraphy Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jFyFOPkh.html>

I have published the following works: "A study on handwriting education for left-handed people," "Literature study on writing styles taught during introductory period of handwriting education—Focusing on the state in the UK," "The influence of Wang Xizhi's calligraphy on the 'Toke Rissei Zassho Yoryaku'—From a Comparison of the '之' Character in 'Lanting-Xu (Essay on the Orchid Pavilion)'; 'Xingrang tie (Ritual to Pray for Good Harvest)', and 'Kōjichūjō (Letter to Kong)'; 'Differences in cerebral blood flow during writing activities using dominant and non-dominant

hands—Data collection using wearable optical topography"; "The possibility of using a writing camera to learn brush calligraphy—An example of learning running-style calligraphy in an undergraduate basics of calligraphy class"; *Composition of 'Calligraphy' Textbooks in the Meiji Period and the State of Regional Handwriting Education*, (Ed. Shinano Education Board); and "A comparative study on writing education in Japan and the US—The diffusion of printed text and typewriter equipment and calligraphy education in the 20th century."

I have received the following awards: Aoyama San'u Commemorative Award 4th Honorable Mention; All Japan Association of College Shosha-Shodo Education Honorable Mention; and Learning Center Director's Award, Faculty of Education, Shinshu University.



Koike, Hiroko

---

**Research theme**

Intercultural communication competence

**Research field**

Intercultural  
Communication

---

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=ZecNbkhF&lang=en&st=researcher>

The ultimate purpose of intercultural communication is not to learn about different cultures or foreign languages but to develop human resources able to interact with people from different cultures in a friendly and effective manner. As a prerequisite, students learn about cultural differences and how they are perceived across cultures. Subsequently, they examine what competencies (communication skills) are necessary for people to interact better across different cultures. Individual and regional differences within a country are also regarded as different cultures. We consider how to respond to differences in behavior and ways of thinking among family members and friends.



Kon, Mayuko

---

**Research theme**

Differential Geometry, e-learning material

**Research field**

Geometry

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.jhAUjVkh.html>

Geometry is a content-rich field that involves studying the properties of shapes around us, such as plane and solid figures, as well as exploring more abstract objects drawing on various methods and perspectives. We mainly investigate submanifolds immersed in manifolds. Recently, we have also embarked on developing e-learning materials for use in lectures on geometry subjects at universities.

Among others, I have published the following papers: "Ricci tensor of real hypersurfaces," *Pacific Journal of Mathematics* 2016, 281(1), 103–123; "Non-Hopf hypersurfaces in 2-dimensional complex space forms," *Tokyo Journal of Mathematics* 2016, 39(2), 373–387; "3-dimensional real hypersurfaces and Ricci operator," *Differential Geometry-Dynamical Systems*, 16, 189–202; and "A characterization of pseudo-Einstein real hypersurfaces of a complex space form," *Journal of Applied Analysis* 2013.



Kusumi, Yusuke

---

**Research theme**

Inclusive education, Learning theory, Classroom research, Post-humanism, Post-qualitative research

**Research field**

Intellectual Disability  
Education, Educational  
Methodology

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.HhyUjakV.html>

My fields of expertise include educational methodology, inclusive education, and contemporary philosophy. My main publications are *Reconsidering Children's Learning* (University of Tokyo Press) and *Unlearning Qualitative Research* (Shinyosha).

I have a deep interest in human learning. Over several years, I have conducted fieldwork and classroom observations in special schools for children with intellectual disabilities, analyzing teacher-student interactions to illuminate the learning potential of these children.

It has been argued that children who do not fit into the conventional educational framework or curriculum require special education. However, I question this assumption. The existence of children who struggle to fit into mainstream education highlights fundamental issues within the current educational system, including its content, methods, and underlying theories. My research focuses on creating inclusive educational practices and theories that fully embrace children with intellectual disabilities.



Matsumoto, Yasushi

---

**Research theme**

Problem-based learning theory, Information society and social studies education, Autonomous learning methods, Sovereign education

**Research field**

Subject Pedagogy, Social  
Science Education

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.yacVbNDe.html>

I have co-authored the following works: *40 Years of Social Studies Education: History and Prospects*; *History and Prospects of Social Studies Education*; *Social History of High School*; *Contemporary Social Studies Education Theory*; *Theory and Development of Modern Social Studies Education*; *Japan and China: Historical Awareness of the Youth*; *A Course of Educational Practice for Teaching Individuals*; *Aiming at the Reconstruction of School Education*; *New Revised Research on Life Environment Classes*; *Handbook of Social Education Practice*; *Raising "Techniques" with Children*; *New Handbook for Creating Social Studies Classes*.

I have published the following papers: "Development of 'peace consciousness' in word-association"; "Paradigm of teaching life environment studies in universities"; "Children's 'academic ability' in problem-based learning"; "Problem-based learning in an information society"; and "Challenges of social science education in an advanced information society."





Matsushima, Koki

#### Research theme

Relationship between ontology and education,  
Active learning

#### Research field

Philosophy, Ethics,  
Philosophy of Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jFTpjUkV.html>

I am Matsushima. I study philosophy. Let us philosophize together.  
My fields of expertise are philosophy, ethics, and educational philosophy.  
Upon hearing the word philosophy, people assume it is something complex, but in fact, philosophy is all around us.  
“Why do I have to get up in the morning?”  
“Why do I have to go to school?”  
“How can classes be more fun?”  
“Why are we alive?”  
What are your common questions? Let us philosophize together.



Matsuzawa, Yasumichi

#### Research theme

Analysis

#### Research field

Mathematics

<https://soar-rd.shinshu-u.ac.jp/profile/en.OmLmOpkh.html>

I aim to achieve a deeper understanding of infinity. When you hear the word “infinity,” you may have only a vague image of it. In fact, only over the last 100 years or so, mathematics has dealt with the concept rigorously. Cantor, one of the leading mathematicians of the 19th century, showed us a way to understand infinity. According to his method, infinity is hierarchical. For example, the total number of natural numbers is infinite; however, this is the smallest of the infinities. Meanwhile, the number of real numbers is also infinite, but this infinity is greater than the infinity of natural numbers. The search for such large infinities using the concept of “approximation” is explored under mathematical analysis. Calculus, which is studied in high school, is also a part of mathematical analysis.



Mitani, Ene

#### Research theme

Cognitive behavioral therapy, Mental health support in industrial areas (support for returning to work/reemployment)

#### Research field

Clinical Psychology

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=bpfCuNyC&lang=en&st=researcher>

I am primarily engaged in supporting recovery, stabilization, and prevention of recurrence of symptoms for those absent from work or those who want to work but cannot owing to mental health disorders. I provide rework/re-employment support at medical institutions and welfare offices while performing both group therapy and individual therapy. I also provide preventive interventions for companies to help employees maintain and improve their mental health.  
I wish to expand our support not only to be able to work as a goal but also to consider achieving a high quality of life for each individual.



Mitsuno, Tamaki

#### Research theme

Developing supportive clothing to improve physical function

#### Research field

Clothing Physiology

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=gNfmbVkF&lang=en>

I have developed comfortable support clothing using clothing pressure as an indicator. Appropriate tightening of the proper body parts can eliminate swelling in the legs and increase the efficiency of burning body fat.  
I have published the following papers: “The current status of clothing pressure,” *Journal of the Japan Research Association for Textile End-uses* 2017, 58(1), 34–38 (sole author); “Distribution of the preferred clothing pressure over the whole body,” *Textile Research Journal*, 2019, 89(11), 2187–2198 (co-author); “Differences of clothing pressure between bandage and stocking,” *Journal of Fiber Bioengineering and Informatics* 2019, 12(1), 1–10 (co-author); “Comfortable pressure feeling and clothing pressure on the abdomen,” *International Journal of Clothing Science and Technology*, 2022, 34(1), 110–118 (co-author); and “Possibility of pantyhose design using clothing pressure and myoelectric potential as indices,” *Journal of Fiber Bioengineering and Informatics* 2023, 16(1), 1–14 (co-author).



Miwa, Shuhei

#### Research theme

Learning motivation, Valuing subjects

#### Research field

Educational Psychology

<https://soar-rd.shinshu-u.ac.jp/profile/en.WmcpjUkV.html>

In my research, I focus on learning motivation. Ever since my childhood, I disliked studying and always thought, “Why do we have to study?” However, no matter how much one dislikes studying, one has to study at school. Children work hard every day for different reasons. Some study to realize their future goals, whereas others study because they may otherwise be scolded by their parents. In my research, I examine why such differences in motivation arise, how these differences affect the choice of learning strategies and performance, and how students can be supported to engage in tasks with the desired motivation.



Miyano, Hisashi

#### Research theme

Teacher career growth through student and teacher guidance, Historical research on teaching graduate schools in the United States

#### Research field

Education History, Education Management, Teacher Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.gpyNjakV.html>

My interest lies in how teachers foster in-depth learning in their teaching activities. I research educational management and the history of teacher education. Specifically, I analyze how current teachers educate themselves not only through teaching children but also in cooperation with other teachers and prospective teachers. I have published the following book: *Establishing a Teaching School in the Winnetka Plan*, Kazama Shobo, 2021.

I have published the following papers: “Significance of activity areas during the establishment of the Winnetka plan: Concepts for forming teacher competencies,” *Research Bulletin of the Japan Society for Historical Studies of Education*, 2018, 61; and “Examining actual situation of the child-study in Daiho Elementary School: The influences of American educational measurement on Japanese school practice in Taisho new education,” *American Educational Studies* 2021, 31.



Miyashita, Akio

#### Research theme

Building schools for the future

#### Research field

School Management, Teacher Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZefebFkF.html>

Schools today encounter fundamental questions, such as: “What is a school?”, “What is education?”, and “What does it mean to learn together?” Schools are collaborating with other organizations to create new activities and ways of learning. While considering the realities of children’s lives, I aim to collaboratively create a school that paves the way for the future.



Miyazaki, Mikio

#### Research theme

Proofs in mathematics education, Non-cognitive skills in subject pedagogy

#### Research field

Subject Pedagogy, Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.yeLUZCLh.html>

Undergraduate education: Fundamentals of teaching mathematics, Theory of mathematics education materials, Mathematics education evaluation, etc.

Graduate school: General theory of mathematics education, Research on mathematics teaching, etc.

Research: Proofs in mathematics education

Curriculum development, Teaching method development, Content development for learning

Research on non-cognitive skills

Clarifying non-cognitive skills characteristic of subject education, Development and use of evaluation methods



**Miyaji, Kouichiro**

#### Research theme

Physiological and psychological research on developmental support assistance for children with severe multiple disabilities, Research on the quality-of-life environment of hospitalized children

#### Research field

Physiological Psychology of Children with Disabilities

<https://soar-rd.shinshu-u.ac.jp/profile/en.upfejhkh.html>

Published works “Guidance for visual attention among children with severe illnesses and its physiological and psychological evaluation,” *Bulletin of Institute for Cultural and Human Research* 21; “Changes in blinking pleasant/unpleasant environments in children with severe mental and physical disorders (persons),” *Journal of Severe Motor and Intellectual Disabilities* 47; “An attempt to build a remote communication system with hearing and tactile stimulation presentation instruments—Towards supporting children with severe impairments,” HCG Symposium 2022; “Research study on the QoL environment of hospitalized children I—Equipment, human environment and initiatives in single and mixed wards of children,” *Medical Care and Child Care* 21; “Case study on the use of switches in children with spinal muscular atrophy type I—Improvement of pneumatic switches and development of the function of switches,” *Bulletin of the Research and Guidance Center for Teaching Practice* 16; and “An investigation into the relationship between the development of sensory acceptance in children with severe physical or mental disability and the relationship with helpers,” *Bulletin of Institute for Cultural and Human Research* 14.



**Mizuguchi, Takashi**

#### Research theme

Linguistic, cognitive, and social development in infancy, Human-specific mental function based on neuroscience

#### Research field

Infant and Child Psychology, Developmental Science

<https://soar-rd.shinshu-u.ac.jp/profile/en.jCyCOpkh.html>

Human development is an interdisciplinary field of study. In addition to psychology, my research integrates several fields of humanities and sciences, such as biological evolution, including primate phylogeny, neuroscience, genomics and genetics, social systems and artifact ecology, and communication studies in a broad sense. My published papers (corresponding author) include: “Imitation learning errors are affected by visual cues in both performance and observation phases,” *Perceptual and Motor Skills*, 2017, 124(4), 846–863; “Children’s imitation is not always goal-directed: Evidence from goal clarification task,” *SOJ Psychology*, 2014, 1(2); “Physical imitation and verbal description of modeled movements engage different encoding processes,” *Psychological Reports*, 2012, 111(1); “Imitation of modeled manipulation of objects by children and adults,” *Perceptual and Motor Skills*, 2010, 110(2); “Children’s imitations of movements are goal-directed and context-specific,” *Perceptual and Motor Skills*, 2009, 108(2); and “Object-related knowledge and the production of gestures with imagined objects by preschool children,” *Perceptual and Motor Skills*, 2002, 94(1).



**Mizutani, Mizuki**

#### Research theme

Wildlife management, ESD, SDGs, UNESCO Biosphere Reserves

#### Research field

Forest Ecology

<https://soar-rd.shinshu-u.ac.jp/profile/en.jUThOpkh.html>

I have conducted surveys and research on a wide range of animals, from insects to bears, as well as on humans, aiming to inform policies on nature conservation governance and agriculture and forestry governance. Currently, my primary focus is on developing technology to predict the mass intrusion of bears into residential areas based on a corn crop survey. I am also addressing regional issues, such as revitalizing communities through the Shiga Highland UNESCO Biosphere Reserve and integrating Education for Sustainable Development (ESD) into local practices. While some animals, such as the crested ibis and storks, teeter on the brink of extinction, others, like deer and wild boars, have proliferated to the point of causing conflicts with humans. How can we live in harmony with nature and wildlife? The answer to this question lies in fostering a sustainable society.



**Morishita, Takeshi**

#### Research theme

Proactive, interactive, and in-depth learning using technology, Education in small-scale schools in remote and hilly areas

#### Research field

Educational Technology, Teacher Education, Distance Learning

<https://soar-rd.shinshu-u.ac.jp/profile/en.uUnNOMyC.html>

How can we use ICT in classrooms to help children acquire skills and abilities needed to live in the “new society 5.0”? What should teachers focus on and how should they guide and support children? Through practical training and in-site observation at schools as part of teaching practice, we consider the efficient and effective application of ICT in the classroom to realize interactive and in-depth learning.





Mukai, Hidefumi

#### Research theme

Anxiety disorders, Transdiagnostic approach

#### Research field

Clinical Psychology

<https://soar-rd.shinshu-u.ac.jp/profile/en.WecajUkV.html>

I investigate the mechanisms that exacerbate various psychological symptoms, such as anxiety and depression. Based on the results, I aim to develop therapeutic techniques that effectively reduce various psychological symptoms.

I have published the following papers: "A transdiagnostic approach from the viewpoint of psychology," *Psychiatry* 2018, 33(5), 419–424; "The relationship between responsibility to continue thinking and diverse psychological symptoms: Considering mediating effect by repetitive negative thinking," *The Japanese Journal of Personality* 2018, 26(3), 263–272; and "Examining the mediating effect of self-esteem on the relationship between self-focused attention and anxiety—The perspective of Wells' S-REF model," *The Japanese Journal of Personality* 2017, 26(2), 129–139.



Muramatsu, Hiroyuki

#### Research theme

Digital fabrication, Intellectual property, Robotics, Developing teaching materials for technology

#### Research field

Technical Pedagogy

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZachupnF.html>

Practical research focusing on the development of "interesting" teaching materials, mainly for junior high school technical classes. I conduct numerous joint research with companies. I have received several awards, including the 2015 MEXT Minister Award. In addition to running [gijutsu.com](http://gijutsu.com), a website for teaching materials on technology used by teachers across the country, I contribute to society through my involvement in various committees, such as the NHK Robocon judges, which I head.

I established the first digital fabrication workshop for teacher training, FabLab Nagano, in 2016, which is currently working on digital fabrication (<https://fablabnagano.org/>).



Nakajima, Takao

#### Research theme

Research on piano performance, Research on interpreting musical performances, Research on music teaching content and method, German music curriculum

#### Research field

Instrumental Education (Piano)

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZUfUbFkF.html>

I have published the following works: *Development of the Subject Content Structure for Teacher Training Based on Subject Content Science: Music*, Airi Shuppan; *International Comparison of Music Curriculum and Class Practice: Curriculum and Class Practice in Berlin, Germany*, Ongaku No Tomo Sha; *Research on Improving the Music Curriculum- Trends in Other Countries*; *Investigative Research on the Structure and Development of Subjects' Research Report*, 15; and *Curriculum in Other Countries (2) Curriculum Standards and Objectives and Content Structure of Each Subject, etc.*, National Institute for Educational Policy Research.

Among others, I have published the following papers: "The influence of J. Paul's Flegeljahre on R. Schumann's Papillons op.2"; "The relation between music and painting in the Impressionist period"; "Investigative study on the contents of the Abitur Examination in German music courses"; "Investigative study on 'sound and music' in German music courses"; and "A study on cross-curricular learning in Germany (Baden-Wuerttemberg): From the perspective of the music department curriculum."



Nishi, Kazuo

#### Research theme

Reception of Chinese literature in "Manyoshu," Development of teaching materials and research on classics, Classics education at elementary, middle, and high school levels

#### Research field

Classical Japanese Literature, Japanese Language Education (Classical Education)

<https://soar-rd.shinshu-u.ac.jp/profile/en.WhDpjFkh.html>

The classics (ancient and Chinese literature) are interesting and useful. My research focuses on classroom practice and research activities to dispel preconceptions that they are boring or not relevant. The classics are what we call immovable and recurring trends. I provide information that provides a basis for such learning.

My publications include *Basic Knowledge to Enjoy Tanka Poetry*; *Basic Knowledge for Manyoshu*; *Development of the 2017 Government Curriculum Guidelines (Japanese edition)*; and *Research on Japanese Language Education in Junior High and High Schools*.

My published papers (classical literature) include: "The image of 'Suwako' in the history of Waka poetry"; "Materials related to Manyoshu and Dunhuang—Ritual books and similar documents"; "Feeling of separation—Characteristics of examples of sentences related to friendship in 'Toke Rissei Zassho Yoryaku'"; "A historical study on the acceptance of expressions in the letters written in classical Chinese in the earlier Heian period—Letters of Saicho"; "Characteristics of examples of sentences related to friendship—Analysis of similar sentences"; "Expressions in Kukai's Correspondence—Generic and original papers (Japanese language education)"; "Tanka poems in textbooks"; "Classical studies in secondary education: The direction of the government curriculum guidelines and analysis of teaching materials"; "Learning Kun'yomi from the perspective of Japanese language education: Chinese writing as Japanese language"; "Scenery and emotions by the Riverside—Perspectives on the Journey to the East in the Tales of Ise becoming teaching materials"; "Teaching materials on Waka in 'Language culture—Manyoshu works in secondary education'"; and "Traveling mood—Teaching material and derivative theory of the Journey to the East in the Tales of Ise."



Noguchi, Maiko

---

**Research theme**

Islamic history and intellectual studies focusing on North Africa, History education, World history education

**Research field**

Foreign History, Islamic History

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.ZNkhuVkU.html>

---

I primarily explore the relationship between rulers of Islamic dynasties and the population in pre-modern North Africa and the Iberian Peninsula. In the Foreign History Laboratory, students are encouraged to question, investigate, and rethink historical events and matters studied thus far.

Furthermore, we aim to understand the major historical trends and connections and discuss the state of foreign and world history education and effective education methods.



Ochi, Yasushi

---

**Research theme**

Organizational theory, Media and education

**Research field**

Educational Sociology

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.uCDNyCLU.html>

---

Educational sociology involves analyzing educational phenomena and problems based on facts. In particular, it is characterized by a “rational” interpretation of educational phenomena while relating them to larger contexts, such as society and systems. For example, it is possible to determine alternative perspectives and solutions to bullying by examining it in relation to the structure of the class, social circumstances surrounding the school, and even the educational perspectives society tacitly depends on (how bullying is perceived). We are currently exploring technology and media as the mediator between people and society and their educational and human developmental effects. By observing and examining the hidden effects of media and technology on human and social development, we aim to obtain clues about what it means to be human, the hidden effects of education, and the state of education in the AI age, among other topics.



Odai, Yoshiaki

---

**Research theme**

Creating classes that nurture qualities and abilities

**Research field**

Health and Physical Education, Teacher Education

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.ymTNjpkV.html>

---

I have explored the state of classes and education drawing on classroom management and classroom practice at elementary and junior high schools. In my classes, I encourage children’s questions and their interactions to foster their essential learning in different subjects.

I reassess children’s behavior in the classroom and how they change and grow over time through interactions with their peers and teachers, as well as the classroom and teacher’s approach to teaching through the lens of theory. I enjoy reflecting on what classes should be like and how teachers should work to nurture the qualities and abilities necessary for children to live in an unpredictable world.



Ogura, Mitsuaki

---

**Research theme**

Project-based learning in technology and information education

**Research field**

Technology Education, Information Education

---

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=WFcNjUkV&lang=en&st=researcher>

---

I am conducting research on Project-based learning (PBL) in technology and information education. In these fields, students engage in creating products or programs, following a process known as the “engineering design process.” My research focuses on the stages of problem discovery and task setting within this process. I also analyze how students think through interviews conducted during the engineering design process. Furthermore, I am exploring methods to support students’ learning by utilizing AI and developing applications. Through my research, I aim to visualize the various learning experiences that occur during the creation process and demonstrate the significance of education in crafting and making.



Oi, Kazuhiko

#### Research theme

Japanese language learning that connects the living and normative languages, Vocabulary learning in Japanese language learning and the use of dictionaries

#### Research field

Japanese Language Education

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=gUyFjmyC&lang=en&st=researcher>

Is studying the Japanese language not necessary because one can use it? Can one teach Japanese? The premise of these questions is that while Japanese is our first language when we think about it, the subject is somewhat strange. For the past 20 years, my research in this field has aimed to consider Japanese language learning as a mother tongue that (we think) we can use, from a linguistic and cultural perspective.

I have published the following papers: "Aiming for self-explanatory learning from a sociolinguistic perspective when studying the Japanese language"; "Studying grammar as a teaching method for cultivating a sense of language in the digital age"; "Japanese language learning from the perspective of the environment of information technology terminals in daily life"; "The significance of 'reading literature' according to students"; "Teaching the use of Japanese dictionaries and lexicons at the secondary education level"; and "Reconsidering language and culture from linguistic behavior."



Okada, Masashi

#### Research theme

Appreciation education, Reading-oriented appreciation, Painting

#### Research field

Art Education

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=gaymHNDm&lang=en&st=researcher>

Among others, I have published the following papers: "Gentile da Fabriano's 'Adoration of the Magi (1423)'—An experimental attempt of reading-oriented appreciation of the Christian painting: A focus on the text and temporal structure"; "A trial of multiple reading of Caravaggio's 'The Calling of Saint Matthew (1599–1600)'—A suggestion on the appreciation of an altarpiece"; "A reading-oriented appreciation on the lineage of flower paintings—Proposing an appreciation theme including East-West comparison of Hugo van der Goes' Portinari Altarpiece and Korin Ogata's Irises Screen"; "Making Rembrandt's 'The Night Watch (1642)' a subject for appreciation (a 7-step program on learning to appreciate) I—An aspect reading-oriented appreciation of group portraits (focusing on observation, description and free interpretation)"; "Appreciation of 'The Annunciation' by Simone Martini (1333) I: Proposal of a 10-step learning model on reading"; and "Reading-oriented appreciation of Veronese's 'The Wedding at Cana (1562–63)': Proposal of the subject from the genealogy of meal paintings (7-step learning model) and analysis of the work."



Oki, Yuta

#### Research theme

Motor control, Motor learning

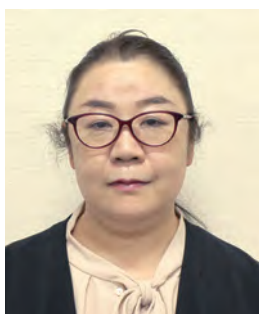
#### Research field

Physical Education, Sports Psychology

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=gUyFjmyC&lang=en&st=researcher>

I study the impact of awareness during exercise on motor performance and learning. One hears people say that during competitive sports, they "went completely blank" or that they "overthought." What type of awareness in sports matches is best for performance? During sports practice, what does one need to be aware of to promote learning? Is it the same awareness for both practice and competitions? I examine these questions using psychological experiments.

Sports psychology has several different areas that have revealed various aspects. I am interested in how to use these findings in physical education classes such as physical education psychology.



Okishima, Naoko

#### Research theme

Food allergies

#### Research field

Food and Nutritional Science

<https://soar-rd.shinshu-u.ac.jp/profile/en.WpDUjNyC.html>

We use pack cooking as disaster support for those with food allergies. We selected hypoallergenic apples based on quantitative and qualitative results from oral loading tests of the apple allergen component Mal d1 in Japanese varieties.

In future research, we aim to understand the current status of food allergy responses in schools and build a support system based on it.

I have co-authored the following papers: "Comprehensive analysis of Mal d 1 mRNA in apples cultivated in Japan," *Japanese Journal of Food Chemistry and Safety* 2022, 29(1), 12–18; and "Measurement results of Mal d 1 protein in apples cultivated in Nagano Prefecture, Japan," *Japanese Journal of Food Chemistry and Safety* 2023, 30(1), 1–8.





**Okumura, Maiko**

#### Research theme

By examining approaches to support based on a life-long developmental perspective for selective mutism

#### Research field

Psychology of Children with Disabilities, Special Needs Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.WVfhjpkV.html>

I investigate the psychological process of children exposed to selective mutism, who can be supported according to their developmental stage based on surveys and practices of parents and teachers.

Selective mutism is an emotional disorder; its main symptom is the inability to speak in unfamiliar situations, such as school; however, the manifestation of symptoms manifest varies by individual. These people can participate in classes, interact with classmates, and adapt to school life. I explore the following research aspects to develop an

understanding of the diverse conditions and provide individualized support:

- 1) Understanding the psychological process of selective mutism developing from childhood to adulthood.
- 2) Practicing an integrated behavioral approach: seeking professional help through education, psychology, medicine, and family.
- 3) Considering reasonable accommodation for children in schools: guaranteeing learning opportunities and support in forming interpersonal relationships.



**Ono, Ayako**

#### Research theme

History of artistic exchange between East and West, Japonisme.

#### Research field

Art History.

<https://soar-rd.shinshu-u.ac.jp/profile/en.yUDVPpkF.html>

Research interests: cross-cultural interchange, including artistic exchange between the West and Japan in the nineteenth and early twentieth centuries.

Publications: *Whistler and Artistic Exchange Between Japan and the West: After Japonisme in Britain*, Routledge, 2023; *Japonisme in Britain, Selected Articles from British Periodicals, 1825-1911*, Edition Synapse, 2022; and *Japonisme in Britain: Whistler, Menpes, Henry, Hornel and nineteenth-century Japan*, RoutledgeCurzon, 2003.

M.Phil. (University of Glasgow) & Ph.D. (University of Glasgow)



**Ono, Takashi**

#### Research theme

Composition of Contemporary Music  
Music Aesthetics

#### Research field

Composition, Music Theory, Musicology,

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=jpShPpkF&lang=en&st=researcher>

Awards: Best prize at the Japan Symphony Foundation 20th Composition Award; Nippon Foundation Honorable Mention Award (1998); winner of the 2nd National Theater Composition Competition for Encouraging Performing Arts by the Agency for Cultural Affairs (1999); Yasuda Prize No. 1 Composition Category of the 69th Japan Music Competition (2000); 24th Nagoya Culture Promotion Award 2008; selected for International Call for Scores of Utrecht Wind Ensemble 30th Anniversary (2011).

Main works: "Active sonar" for Piano and Orchestra (2000); "Rota-multiple" for 13 Instruments (2010); "Dub-multitude" for Doulbe Orchestra (2011); "Have a Good Night" for Piano and Orchestra (2015); "Traced Segments" for 7 Players and Live Electronics (2016/2021); "Vintage Time Machine" for Piano and Live Electronics (2018); and "Corded Shell" for 5 Players (2022).

Main papers: "A research of musical composition process (1), (2), (3)" (2003-2005); "A consideration of Musical senses in medieval Japan from the descriptions by Louis Frois" (2005); "Music, or time as fiction" (2013); "Masayuki Takayanagi and action direct" (2016); and "Demonstrating a composer's intention and ideal performers theory in music works" (2024).



**Oshima, Kenichi**

#### Research theme

History of art education, Research on Practical Art Education, Art project

#### Research field

Art Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.ONLNOpkh.html>

My research focuses on the history and practice of art education, emphasizing its development in Nagano Prefecture and the United States. I examine how art education emerged alongside modern art during the rise of mass society and general education, aiming to clarify its historical background and provide insights into the future direction of art education. Additionally, I am interested in contemporary practices such as art projects, workshops, collaborations with museums, and the use of ICT while exploring how these approaches can shape art education today.



Saito, Tadahiko

#### Research theme

Significance of the music subject, Development of music teaching materials, Brain science and music, Use of ICT in music education, Music related to Nagano Prefecture

#### Research field

Music Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.HenpbVkF.html>

I investigate music teaching methods and the significance of music study, focusing on the fundamental power of sound and music.

As part of developing teaching materials for music study, I examine what kind of music and instruments are suitable as educational tools. I conduct experimental research on the effects of sound and music on cerebral blood flow using near-infrared spectroscopy (NIRS), explore new teaching methods that use tablet devices, and investigate music from Nagano Prefecture (e.g., singing and children, folk, and prefectural songs).



Sakaguchi, Masahiko

#### Research theme

Drosophila neurobiology, Development and research of teaching materials that remind students of the importance of each area of mathematics and science

#### Research field

Neurobiology, Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jFfVghfp.html>

1. I explain the structure and function of the nervous system

<http://www.shinshu-u.ac.jp/faculty/education/course/science/labo/biology/02.html>

We currently use Drosophila for live imaging (Photo: Example of a neuroanatomical analysis of sensory neurons in the larval body using kaede protein)

2. Science education research: Currently, I conduct research and develop teaching materials that remind students of the importance of understanding the relationship between mathematics and physics for understanding biology.

I have published the following paper: "Biology education to increase awareness in prospective science and mathematics teachers in the faculty of education of the need for mathematics and physics: Teaching materials on sound source localization of barn owls."



Sakai, Hideki

#### Research theme

Roles of input and interaction in second-language acquisition, Second-language processing, Second language /motivation

#### Research field

Teaching English Language as a Foreign Language, Second Language Acquisition

<https://soar-rd.shinshu-u.ac.jp/profile/en.OeSFWmnU.html>

My research focuses on the second language acquisition process and its relationships with environmental linguistic conditions (e.g., linguistic input, corrective feedback, and output opportunities). I am also interested in studying second language motivation, a key factor affecting second language acquisition.

My main publications (authored and co-authored) include: *The ABCs of Foreign Language and Foreign Language Activities in Elementary Schools*, Taishukan-shoten, 2023; *Evidence-based English Education*, Kenkyusha, 2021; *Minimal Essentials for Teaching English in Elementary Schools: Pedagogical Contents of Foreign Language Education in Elementary Schools*, Sanseido, 2017; and *Introduction to English Education Research Methods*, Kenkyusha, 2016



Sakugawa, Kenji

#### Research theme

Rational fundamental groups of algebraic varieties

#### Research field

Number Theory, Number Theory Geometry

<https://soar-rd.shinshu-u.ac.jp/profile/en.WhcmjUkV.html>

I study the symmetry of integers and their generalizations, algebraic integers. A manifestation of such symmetry, a Galois group, often includes operations on geometric objects. A typical example is the operation on a point obtained by dividing the circumference of a circle's radius into equal parts. A shape obtained as a solution to an equation, such as a circle, is called an algebraic variety. I explore the operation of Galois groups on the basic group of algebraic varieties, which represent a generalization of the equidistant points of a circumference. This is difficult to realize in general; however, in special cases, it can be successfully transported to specific analytical targets. An example of this is real numbers, called multiple zeta values. I am interested in studying the properties they satisfy.



Sato, Unkai

#### Research theme

Surface processing, Cleaning and modification of industrial materials

#### Research field

Production Engineering, Machining Science, Material Processing, Structure Control Engineering

<https://soar-rd.shinshu-u.ac.jp/profile/en.gmfCbVkF.html>

As precision devices become denser and perform better, the surface properties of the components become stricter. Instead of using chemical solutions, this laboratory uses environmentally friendly and low-cost electrolyzed water to research surface cleaning, processing, and modification of industrial materials, such as metal materials for precision devices, semiconductor materials, and ceramics. Electrolysis provides electrolyzed water (electrolyzed reduced water and electrolyzed oxidized water). Electrolyzed reduced water is alkaline and excellent for the removal and cleaning of abrasive particles and cutting fluids. It can also be used to polish silicon wafers. Electrolyzed oxidized water is acidic and exhibits a strong etching action on metal surfaces, such as iron, copper, and nickel. Thus, it can be applied in surface processing, roughening, and reforming of these materials. For more information, refer to the Shinshu University Researcher's Directory.



Sato, Kazunori

#### Research theme

Classroom management and learning guidance in elementary schools and the development of ICT application skills

#### Research field

Educational Technology, Information Education, Classes Using ICT, Educational Methodology

<https://soar-rd.shinshu-u.ac.jp/profile/en.WNAVjUkV.html>

Educational technology is an interdisciplinary field that practically contributes to improving education and aims to systematize technologies and innovations to enhance educational outcomes. Based on this concept and considering the basic educational techniques, learning methods, and classroom management of elementary schools, we work with schools on-site and organize debates to promote the importance of cultivating ICT skills, such as programming education, media literacy, and one device per student. The one-device topic has gained momentum in light of new curriculum guidelines and the GIGA School Program, alongside the closure of schools owing to the COVID-19 pandemic. Furthermore, we have begun to use artificial intelligence to improve learning guidance and classroom management.



Seki, Hiroshi

#### Research theme

Consider collaborative and reflective school organizations and on-campus research to support teachers in lifelong learning

#### Research field

Teacher Education, Early Childhood Kinesiology

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=WpnajpkV&lang=en&st=researcher>

I explore the ideal characteristics of teachers so that students can learn in a variety of ways as the student body is diverse. In an age wherein we question what it means to obtain a correct answer, how should we consider the expertise of teachers to nurture children who will pursue their own paths to solutions acceptable to them? I examine the development of individual teachers who advance their views as teachers and how schools function as reflective organizations that support students' growth. Let us think about teachers who examine their own characteristics and school organizations that support their growth to develop happy children and adults.



Seki, Yoshinori

#### Research theme

Michel Foucault and legal philosophy, Theory of law-related education

#### Research field

Legal Philosophy, Legal Theory, Law-Related Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.jNTUbUkU.html>

I investigate law, justice, and power. I also research and practice "mock trial" classes to ponder about justice in-depth. My research focuses on Michel Foucault's theory of power and its relation to law and justice. I was a Visiting Fellow at Birkbeck School of Law, University of London, in 2017. I presented a paper on "Foucault and the Concept of Singular Rights" at the Critical Legal Conference (2018) in the UK. From 2018 to 2021, I worked on "Critical Legal Theories against Neoliberal Government and a Postmodern Theory of Human Rights (JSPS)." From 2021 to the present, I have continued my research on the theme "Ideas of Communism and Legal Theories: Critical Legal Theories after the Critique of Neoliberal Governance (JSPS)." I also explore sexuality and law, constitutional law, and law-related education.





Shimada, Hideaki

#### Research theme

Ease of explanation, Empathy and learning,  
Application of psychology

#### Research field

Educational Psychology,  
Cognitive Science,  
Educational Engineering

<https://soar-rd.shinshu-u.ac.jp/profile/en.WmkNjhkh.html>

My research focuses on “explanation.” I conduct research on creating teaching materials, such as explanations and e-learning materials, which are easy to understand, what makes people want to read/see teaching materials, and what happens when people “empathize with the speaker.”

Furthermore, by applying the findings of cognitive psychology, I proactively incorporate active learning using ICT in university classes and make them enjoyable and useful. For the general public, I propose the principles of explanations that are easy to understand and practically applicable. I am also involved in lecturing and writing activities.



Shimoyama, Mae

#### Research theme

The mental health of children and adolescents with  
intellectual disabilities, Applied behavior analysis

#### Research field

Psychology of Children  
with Disabilities

<https://soar-rd.shinshu-u.ac.jp/profile/en.uVAhjpkV.html>

I explore behavior problems and mental health support for children and adolescents with intellectual disability and autism spectrum disorder. Research shows that the incidence of mental health problems in children with intellectual disability is more than three to four times higher than in children without disabilities. Furthermore, over two-thirds of children with intellectual disability do not experience significant mental health improvement as they transition into adulthood. I am dedicated to continuing my research on support and education for children with disabilities, striving to discover ways to help them learn and thrive.



Shinoda, Naoko

#### Research theme

Lifelong development support for individuals  
with developmental disability characteristics,  
Development of intervention methods for university  
students with developmental disability characteristics

#### Research field

Clinical Psychology,  
Lifelong Development  
Clinic

<https://soar-rd.shinshu-u.ac.jp/profile/en.jpAebCkF.html>

I aim to support people who have difficulty living because of challenges such as developmental disabilities so that they can maximize their strength and growth throughout their lives. I conduct research mainly in psychology but also in related fields, such as education, welfare, and medicine.

I have published the following work: *Effects of ADHD Traits on Career Decision-Making among University Students*.

I have published the following papers: “Relationship between cognitive flexibility and ASD/ADHD traits among university students,” *Campus Health* 2018, 55, 174–179; “Impact

of inattention and hyperactivity/impulsivity on psychological maladaptation of university students,” *Japanese Journal of Counseling Science* 2015, 48, 20–31; and “Relationships among autistic traits and career decision-making in college students, and the mediating effect of emotional intelligence,” *The Japanese Journal of Autistic Spectrum* 2015, 13, 5–12.



Shinozaki, Masanori

#### Research theme

Establishment process of social studies learning  
instruction, Developing historical literacy in children and  
students, History of social studies teaching materials

#### Research field

Social Studies Pedagogy  
(History of Social Studies  
Education, Social Studies  
Education, History Education)

<https://soar-rd.shinshu-u.ac.jp/profile/en.OeLeOpkh.html>

Among others, I have authored the following works: “Cultivating ‘historical perspectives and ideas’ in teaching Japanese history in junior high school social studies during the formation of social studies,” in *Social Perspectives and Ways of Thinking Required for Education in the 21st Century*, Teikoku Shoin, 2018; and “Educational guidance for elementary social studies education,” in *Elementary Social Studies Education*, Minerva Shobo, 2018.

Among others, I have published the following papers: “Initiation of a social studies learning assessment at experimental schools designated by Textbook Bureau of the Ministry of Education in 1947,” *Research Journal of Educational Methods* 2023, 48; “Seishiro Aoki’s views on non-curricular educational guidance and ‘moral development’ research,” *Secondary Social Studies* 2022, 40; “Process for introducing a ‘work module’ at an elementary school attached to the Tokyo Second Normal School,” *The Japanese Journal of Curriculum Studies* 2012, 21; and “Planning social studies units at an experimental school affiliated with the Textbook Bureau of the Ministry of Education, Science, and Culture,” *Journal of Social Studies* 2011, 112.



Tajima, Tatsuya

#### Research theme

Practical study of vocal performance

#### Research field

Vocal Music

<https://soar-rd.shinshu-u.ac.jp/profile/en.HaApPpkF.html>

As a classical vocalist, I have appeared in several opera performances, such as Verdi's "La Traviata," Puccini's "La Boheme," and Mozart's "The Magic Flute" as well as concerts, such as Handel's "Messiah" and Beethoven's "Ninth." Through these performance activities, I hope to continue to study how to perform better, reach people's hearts, and determine the kinds of skills and sensibilities that future music teachers need and how to teach them in school.



Takahashi, Fumito

#### Research theme

Cognitive behavioral therapy, Parenting support, Support for child development

#### Research field

Clinical Psychology, Developmental Psychology

<https://soar-rd.shinshu-u.ac.jp/profile/en.WUTmjVkh.html>

I explore cognitive behavioral therapy based on cognitive and learning psychology to resolve mood and behavioral difficulties. Among others, I have published in the following main journals: *Japanese Journal of Behavior Therapy*, *Japanese Journal of Stress Sciences*, *Japanese Journal of Behavioral and Cognitive Therapies*, *Cognitive Therapy and Research*, *Personality and Individual Differences*, *Journal of Applied Developmental Psychology*, and *Journal of Contextual Behavioral Science*. Some research results have also been published on the website of the laboratory (e.g., "A factual survey on the delivery system of cognitive behavioral therapy in psychiatric clinics in Japan"). My research areas include what adults can do to help children deal with and overcome stress and what psychologists can do to support adults (e.g., parents and teachers) close to children.



Takahashi, Tomone

#### Research theme

Assessment and support for people with developmental disabilities

#### Research field

Educational Psychology, Clinical Psychology

<https://soar-rd.shinshu-u.ac.jp/profile/en.yVDVbFkF.html>

I have published the following books: *Assessment of University Students with Developmental Disabilities—A Practical Guide for Understanding and Support*, Kaneko Shobo, 2024 (co-authored); *Connecting Support for Reading and Writing Difficulties: Reading and Writing Assessment for University Students—Reading and Writing Fluency (RaWF) and the Reading and Writing Support Needs Scale (RaWSN)*, Kaneko Shobo, 2022 (co-authored); and *Campus Life Q&A for University Students with Developmental Disabilities*, Kobundo, 2017 (co-authored).

I have published the following papers: "Academic support for university students with developmental disabilities: The significance of assessment in support services," *Japanese Journal of Learning Disabilities* 2024, 33; "Difficulties in reading and writing, and learning disabilities—Support based on related dysfunction," *Japanese Journal of Child and Adolescent Psychiatry* 2023, 64; "Evidence-based test accommodations for university students with developmental disabilities," *Annual Report of Educational Psychology in Japan* 2022, 61

I have published the following psychological tests: Reading and Writing Fluency (RaWF), Reading and Writing Support Needs Scale (RaWSN), Developmental Disabilities Related Distress Scale, Assessment Tasks for Social Behavior.



Takayanagi, Mitsutoshi

#### Research theme

American philosophy of education, The significance of "reading" in teacher education

#### Research field

Philosophy of Education, Teacher Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.WNSVjVkh.html>

My main research interest is the American philosophy of education. My research aims to reconceptualize the notion of education through the lens of philosophers such as Ralph Waldo Emerson, Henry David Thoreau, and Stanley Cavell, in the hope of revealing a different, often overlooked dimension of education.

My publications include "Nature and education," in: *Philosophy of Education in Dialogue between East and West: Japanese Insights and Perspectives*, Routledge (2024) and "The perfection of the teacher through the pursuit of happiness: Cavell's reading of J. S. Mill," *Studies in Philosophy and Education*, 2016, 35, 17-28.



**Takeshita, Yoshihiro**

#### Research theme

Geomorphical and geological development in central Japan, Research on the relationship between the natural environment and humans during the last glacial period

#### Research field

Geology (Quaternary geology, Tephrostratigraphy)

<https://soar-rd.shinshu-u.ac.jp/profile/en.jVAajVkh.html>

My research focuses on the Quaternary period, the most recent geological-time unit in the Earth history (from about 2.6 million years ago to the present), to understand process of geomorphical and geological development. Land is not immobile; it is changing constantly, albeit very slowly. Various disasters have occurred in Nagano Prefecture, such as a volcanic eruption (Mount Ontake) and earthquake (Hakuba-mura) in 2014, levee breach of the Chikuma River (Nagano Prefecture) in 2019, and a sediment related disaster (Okaya) in 2021. Consequently, such phenomena have changed the landscape to create the land on which we live. Therefore, we continue to conduct research with the belief that understanding the formation of the land on which we live can lead to a reduction in damage. If you are interested in learning about the land and stones of Nagano Prefecture, refer to <https://www.shinshu-u.ac.jp/project/chishitsuzu/>. You may also search for “信大石ころ” to obtain the results.



**Taki, Naoya**

#### Research theme

Educational effects of outdoor education

#### Research field

Outdoor Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.uNDFPanV.html>

My research aims to clarify the educational effects of outdoor education on youth from various perspectives, including the impact of long-term camps on elementary students' “zest for living” and university students' basic skills as working adults. I also investigate effective teaching methods and program development, among other fields. Practice is an essential aspect of outdoor education. Students go outdoors, have direct contact with nature, engage with others, and deepen learning through various practices. My classes include Introduction to Outdoor Education, Outdoor Education Training Exercises, Mountaineering Practice, and Snow Camping Practice. My publications include “Safety Management and Safety Learning in Outdoor Education” and “Picture Book Workshops.” My papers include: “Impact of camping on children's brain activity and ‘energy for life’” and “Effects of a 70-day long-term boarding experience on children's energy for life.”



**Tanaka, Kosuke**

#### Research theme

Syntax, Semantics

#### Research field

Theoretical Linguistics

<https://soar-rd.shinshu-u.ac.jp/profile/en.OaDhjhkh.html>

Among others, I have authored or co-authored the following books: *Japanese-English Comparative Syntax Research*; *Theoretical Linguistics Approaching the Essence of Language*; *The Frontier of Theoretical Linguistics from Book Reviews*; *English Grammar Taught in Universities*; *Comparing and Understanding English Grammar*; and “Correlation of place syntax,” in *Exploring Possibilities of Theoretical Linguistics through Studying the Japanese-English Syntax*, 2012. I have published the following encyclopedias: *Encyclopedia of Linguistics* and *Encyclopedia of Mathematical Linguistics*. Among others, I have published (as a co-author or sole author) the following papers: “Japanese pronoun hon-nin,” *Journal of Japanese Linguistics* 2018, 34; “The so-inversion construction revisited,” *The Linguistic Review* 2010, 27; “The locative construction in English and Japanese,” *Linguistic Analysis* 2008, 34; and “Similarity between low-valuation representing ‘nanka’ and negative expressing ‘any’: A contrastive study of Japanese and English,” *Journal of Japanese Grammar* 2013; “Place phrase inversion constructions and event structure,” *Lexicon Forum* 2007, 3.



**Tenya, Kenichi**

#### Research theme

Magnetism and superconductivity of strongly correlated electron systems

#### Research field

Condensed Matter Physics, Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.WanUPFSp.html>

My research involves low temperatures, magnetism, and superconductivity, primarily focusing on oxides and metal compounds. The interesting fact about low temperature—cooling a substance—is that removing its thermal energy reveals mysterious phenomena not observed (or expected) at room temperature. One such phenomenon is superconductivity, in which the electrical resistance of a substance abruptly drops to zero below a certain temperature. Magnetism refers to how the physical property known as “magnetic moment,” which is inherent to a material, transforms by changing its magnetic field or temperature. Substances attracted to magnets, such as iron, are called “ferromagnets” and are well known; however, there are also anti-ferromagnetic, ferromagnetic, paramagnetic, and anti-magnetic substances.





**Terasawa, Koji**

**Research theme**  
Building a healthy education system

**Research field**  
Health Education

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=jhSeuUkV&lang=en&st=researcher>

Publication: “Start Dementia Prevention Training Today—Extend Your Life with Exercise and Diet,” Hoozuki Shoseki (2017)

I have co-authored the following paper: “Comparative survey of go/no-go results to identify the inhibitory control ability change of Japanese children,” *BioPsycho Social Medicine*, 2014, 8, 14, 1–7.

I explore the inhibitory function of the brain in children and older adults. This function is not as developed in children as in adults, whereas is prone to deterioration in older adults. To research this phenomenon, I aim to build a health education system based on the concepts of exercise and communication and practice it in Japan and Southeast Asia.

Publication: “The feasibility of using the go/no-go task as a dementia screening test assessed with a cross-sectional design,” *Scientific Reports*, 2024, 14:29834. <https://10.1038/s441598-024-81301-5>;

“Human rights health care measures reporting physical fitness tests for ages 6 to 17 with 10-year follow-up,” *International Journal of Human Rights Healthcare*, 2024, ISSN: 2056-4902. <https://10.1108/IJHRH-12-2023-0092>.

“A report on attempts to acquire exercise habits through Japanese health education for adult workers from Cebu, Philippines,” *Health Scope*, 2023 12(4): e134198. <https://doi.org/10.5812/healthscope-134198>.



**Tokui, Atsuko**

**Research theme**  
Communication research for supporting foreigners in the region

**Research field**  
Intercultural Education,  
Japanese Language  
Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.OVyFuUkV.html>

My research pertains to the fields of intercultural education and Japanese language education. In particular, I explore elementary, junior high, and high school education for foreign students and communication to support foreigners in the region.

My publications (co-author) include: *Revised Edition Communication in a Multicultural Coexistence*, Alc, 2020; *Key Persons in Multicultural Societies*, Coco Shuppan, 2023; *Rethinking Japanese Teachers' 'Clothes'*, Kuroshio Shuppan, 2007; *Research on Intercultural Education*, Nakanishiya Shuppan; *Introduction to Communication for Interpersonal Relationships*, Hitsuji Shobo, 2006; *Designing Multicultural Education*, Keiso Shobo, 2013; *Introduction to Intercultural Communication*, Sogensha, 2000; and *Intercultural Communication Research Methods*, Yuhikaku, 2005.



**Tomokawa, Sachi**

**Research theme**  
Development of teaching materials and curriculum for health and environmental education, Human resource development, School health policy, Eco-health, Health promotion activities in preschool education

**Research field**  
International School  
Health, Health Education,  
Environmental Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.OaACjVkh.html>

I explore improving health and the environment to promote better growth of children in developing countries in Asia and Africa, as well as the structures and human resource development required for this purpose. In Japan, I investigate the development of teaching materials for health education and health promotion activities in kindergartens and nursery schools.

I have co-authored the following papers:

- “Key factors for school health policy implementation in Thailand.” *Health Education Research* 2018, 33(2), 186–195.
- “Examining the appropriateness and reliability of the strategy of the Kenyan Comprehensive School Health Program.” *Global Health Promotion* 2020, 27(4).
- “The ecosystem approach to health is a promising strategy in international development: Lessons from Japan and Laos.” *Globalization and Health* 2015, 11, 3.
- “Factors influencing the national school health policy implementation in Lao PDR: A multi-level case study.” *Health Promotion International* 2015, 30(4), 843–854.
- “Poverty and health of children in the world: Health impact of disparities due to poverty, and countermeasures.”
- “Health issues and the need for health promotion activities in teacher training organizations in developing countries.”
- “Effectiveness and challenges of mock lessons in improving leadership in health learning: Focusing on the transformation of reflection.”



**Toya, Kenji**

**Research theme**  
Creating instructional classes that combine each subject area, How to conduct on-campus research, Researching teaching materials

**Research field**  
Special Support Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.gaDUjpkV.html>

We conduct research from the perspective of how teachers should be with children, how to perceive well, how to prepare the classroom environment, and how to perceive learning, among other things for children with intellectual disabilities. We aim for these children to be active while fully demonstrating their preferences. Rather than looking at children within a predefined framework, I value capturing and leveraging what happens in the moment-to-moment interactions between children, teachers, and objects to make sense of what happened and to make the best use of it in the next step.



**Uehara, Toshiharu**

make science classes more interesting.

Among others, I have published the following papers: “The effect of the presence of information from which the results of an observation or experiment can be deduced on students’ feelings toward the observation or experiment: A case study of second-year junior high school students’ experiment on the ‘law of conservation of mass’” and “The effects of junior high school science classes that introduce manipulative thinking tasks for understanding scientific knowledge: From the perspective of the three levels of knowledge.”

#### Research theme

Science teaching and learning based on deductive reasoning, Accelerating conceptual understanding through knowledge manipulation

#### Research field

Science Pedagogy,  
Psychology of Instructional Learning

<https://soar-rd.shinshu-u.ac.jp/profile/en.HUAhbNnU.html>

In elementary and junior high school science classes, problem-solving and inquiry learning are generally conducted using the inductive “scientific method.” However, the accumulation of results that support a theory through observations and experiments does not prove the theory. The scientific method also includes deductive methods, such as disproving a theory. If we incorporate this aspect of the scientific method into science classes, students will be exposed to a variety of scientific methods, which I believe will



**Watanabe, Toshiaki**

can experience the potential of their bodies and gain a sense of accomplishment. Therefore, in my classes, I aim to improve the leadership skills required of physical education teachers. Students deepen their learning about teaching materials aimed at improving skills and enjoying themselves through observing and analyzing movement to use in instructing and studying movement structure analysis of the mechanism of movements. The more students learn about sports kinematics, the deeper their experience of discoveries, surprises, and impressions. Let us work together to create the physical education classes of the future!

#### Research theme

Instructional theory in exercise, Effective structure of teaching materials and creation of teaching materials for physical education

#### Research field

Movement Theory of Sport

<https://soar-rd.shinshu-u.ac.jp/profile/en.uUcVWhLh.html>

I explore teaching materials to enhance physical education classes and practical research aimed at improving exercise teaching skills. Exercise programs and teaching materials developed thus far enable even students who are not good at exercise to enjoy them, and they have been highly evaluated. I have received requests to collaborate in the creation of such programs from schools, prefectural governments, and the private sector. The subject of physical education provides valuable experience whereby students



**Yachi, Yuki**

in charge of “Basic life environmental experiences teaching methodology” at the undergraduate level and “Planning and management of in-school research” at the Graduate School of Education.

#### Research theme

Training and development using instructional design.

#### Research field

Teacher Education, Education Engineering, Life Department, Comprehensive Learning Time Education

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=uNyNjmyC&lang=en&st=researcher>

I served as a junior high school teacher (Japanese language department) in Nagano Prefecture, the director of the Prefectural Board of Education (life department and comprehensive learning time), and the head of the affiliated Matsumoto Junior High School. Furthermore, at the National Institute for School Teachers and Staff Development, I have studied “proactive, interactive, and deep learning”. Based on these practical experiences, I explore the development of teacher training. Furthermore, I am



**Yada, Naoya**

#### Research theme

Inquiry into classroom management through building better relationships with children, Development of a Japanese language curriculum map

#### Research field

Teacher Education, Japanese Language Education

<https://soar-rd.shinshu-u.ac.jp/search/detail.html?systemId=gNkVjUkV&lang=en&st=researcher>

My ongoing research question related to classroom management and classroom practice pertains to what it means for children to learn on their own terms, mainly in elementary schools. My interactions with children have taught me that classroom management can be a foundation for all learning, where children can feel at ease, exert their full abilities, and appreciate each other. At present, I am developing a Japanese language curriculum map that enables children to “learn as they are,” focusing on their developmental stages and connections, which is a crucial aspect of integrated education in elementary and junior high schools.



**Yagi, Yuichiro**

#### Research theme

Research on the history of Japanese language education, Research on creative activities in reading through “learning”

#### Research field

Japanese Language Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.WaShjVkh.html>

My publications (co-authored) include “Results and perspectives of historical research on Japanese language learning,” in *Results and Prospects of Japanese Language Education Research II*, Toyokan Shuppansha, 2013; “Exchange: Broadening, Deepening, Heightening,” Toyokan Shuppansha, 2015; “Traditional language culture,” in *Elementary Japanese Language Education*, Minerva Shobo, 2018.

I have published the following works, some co-authored: “Formation of the concept of the ‘classics’ in Japanese language education,” Doctoral Dissertation (University of Tsukuba), 2017; “Introduction of ‘serial stories’ in educational guidance for literary writing—From the practice of ‘When Star Flowers Fall’ (Mitsumura Toshio, junior high 1st grade),” *Shinshu University Journal of Educational Research and Practice* 2019, 13; and “How to ‘gather materials’ to increase writing motivation: Using a unit on writing a ‘self PR statement’ (elementary school 5th grade) as case study,” *Shinshu University Journal of Educational Research and Practice*, 2019, 13.



**Yamagishi, Akihiro**

#### Research theme

Analysis of the architectural thermal environment, Preservation and use of historical buildings, Study of the residential area in home economics

#### Research field

Housing Studies, Architectural Planning Principles

<https://soar-rd.shinshu-u.ac.jp/profile/en.OCCcZVkh.html>

Publications: <Architecture Texts> Environmental Engineering in Architecture: Learning How to Understand and Construct the Environment (Co-author); Environmental Ergonomics—The Ergonomics of Human Comfort, Health, and Performance in the Thermal Environment (Co-author)

I have published the following papers: “Improvement of thermal environment in brickwork library constructed in the Meiji era—Research on preservation and application of historic buildings,” 2016 (sole Author); “A case study of bulletin boards in common elementary school classrooms and children’s awareness of them,” *Journal of Human and Living Environment* 2016, 23(2), 49–57 (co-author); “Using ICT to teach home safety in junior high school home economics classes,” 2017 (co-author); and “Regional characteristics of housing—A case study of public housing in Nagano Prefecture,” (co-author).



**Yamamoto, Hiroki**

#### Research theme

Motivation, Vocabulary learning, Learning strategies, Speaking instructions and evaluation

#### Research field

English Language Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.WCcUjUkV.html>

I have conducted research on the development of autonomous language learning and communicative activities applying second language acquisition theory. At present, I am focusing on the development of teaching and evaluation methods for “speaking (interaction)” to practice in high schools. I have also participated in a project commissioned by the Ministry of Education, Culture, Sports, Science, and Technology aiming at improving English language education at junior high and high school levels.

Among others, I have co-authored the following papers: “Development of a paired speaking test for use in Japanese high schools,” *Language Education & Technology*, 2021, 58, 99–128; “Vocabulary learning strategy training to promote learners’ internal proactiveness through collaborative learning,” *LET Kansai Chapter Collected Papers*, 2019, 17, 1–20; and “Practice of a collaborative conversation reflection activity using a voice recorder and dictionary,” *Language Education & Technology*, 2018, 55, 301–330.



**Yatsuka, Mitsunori**

#### Research theme

Research on the use of teaching portfolios in teacher development

#### Research field

Educational Technology, Teacher Education, Science Education

<https://soar-rd.shinshu-u.ac.jp/profile/en.uUcmbCLh.html>

I explore teacher training and in-service teacher training with practical leadership skills, focusing on the use of teaching portfolios to promote reflection among teachers and prospective teaching students.

Among others, I have published the following papers: “Development of a new teacher training program in cooperation with kindergarten schools affiliated with the Graduate School of Education”; “Effect of self-evaluation and mutual comments with teacher trainees by using the teaching e-portfolio”; “Operation and innovation of the e-portfolio at Shinshu University—Aiming to construct an ‘ideal teacher image’ through self-evaluation and mutual comments;” and “Textmining analysis of teaching portfolios of students in early stages of teacher training: Descriptions of reflections on INTASC perspective ‘communication’.”





**Yuki, Masahiro**

---

**Research theme**

Research on improving the competitiveness of speed skating

**Research field**

Biomechanics of Winter Sports

---

<https://soar-rd.shinshu-u.ac.jp/profile/en.OhnFbmLh.html>

---

My research primarily focuses on the biomechanical analysis of physical activity in winter sports and its applications to coaching. In addition to training and coaching practices for junior and elite athletes, I also study coach training. I aim to make my classes interactive by having students discuss topics transcending stereotypes, expressing my opinions as an experienced sports instructor, and creating opportunities for students to engage in deep thinking.

I believe sports can be a valuable learning tool to overcome pain and hardship, develop self-control, and extend the bounds of human ability. I aim to train highly sensitive sports coaches who can notice small signs in children and athletes.