

Phenomenological study on movement formation



Name	SATO Makoto	E-mail	msatoh@numazu-ct.ac.jp
Job Title	Professor	Degree	Master of P. E.
Academic Society and Association	Japan Society of Physical Education, Health and Sport Sciences, Japan Society of Sport Movement and Behaviour, Japan Society of Coaching Studies		
Research Keywords	Phenomenology, Motor Learning, Coaching, Gymnastics		
Technical Fields and Topics possible for collaboration	<ul style="list-style-type: none"> ▪ Provision of knowledge about sports coaching ▪ Teaching method for gymnastics ▪ Cardiopulmonary resuscitation 		

Details of the Research Theme

It seems easy to start a new movement, but it is a difficult problem. The mechanism of movement is clarified using natural science techniques to guide movement. However, just because the mechanism is clarified, it doesn't mean that it will be possible to master a movement immediately. In order to be able to master a movement, the athlete must be able to manage the sensory image associated with the movement in his senses and consciousness into the target movement. What we need to think about is what kind of image the athlete will form, what the material is for that, and how the learner can image it. We approach this from a phenomenological standpoint.

Studies on Jewish American Literature



Name	SUZUKI Hisahiro	E-mail	h-suzuki@numazu-ct.ac.jp
Job Title	Professor	Degree	Master of Arts (Literature)
Academic Society and Association	The Jewish Literary Society of Japan, The Society of English Literature, Kanazawa University, and The Council of College English Teachers		
Research Keywords	Jewish Literature, Jewish Culture, The Holocaust		
Technical Fields and Topics possible for collaboration	<ul style="list-style-type: none"> ▪ Studies on the works of Bernard Malamud ▪ Studies on Jewish Literature ▪ Studies on Jewish Culture 		

Details of the Research Theme

Studies on Jewish American Literature

You can broaden your perspective by learning Jewish culture and literature, focusing on its differences from your own.

Jewish American Literature started with the Jewish immigrants who escaped persecution in Eastern Europe in the late 19th century. At its early stage, it was peculiar to their own: the topic of the literature was mainly their struggles that they went through living in the New World, which had a very different sense of values and culture from theirs. Later, however, the topics became much broader and universal: it depicted how people should morally live as a human. Bernard Malamud (1914-1986), one of the best Jewish American writers, has written such books and short stories.

In most of Malamud's works, it is true that the protagonist is a Jew, and that his books seem to be based on Jewish culture and history, where they suffered from so much persecution but they endured. However, he writes about the protagonist's efforts to live selflessly, responsibly and compassionately in a world where such sense of values is hard to find, and it is much easier not to live in that way. Reading his books help us find a way to live in a secular and self-centered world.

When you read Jewish literature, you need to understand their culture and history, too. Therefore, I conduct research on them: how Jewish people live, how they reacted to the Holocaust in the last century, and so on.



University of Texas, Austin, where they have a lot of literary materials relating to Jewish American Literature



Towson University, where I stayed to conduct research on Jewish American Literature



Towson University's college newspaper on my speech on Jewish and Japanese cultures

Numerical Study of Elementary Particle Physics



Name	KOMA Yoshiaki	E-mail	koma@numazu-ct.ac.jp
Job Title	Associate Professor	Degree	Doctor of Philosophy
Academic Society and Association	The Physical Society of Japan		
Research Keywords	Particle Physics, Numerical Simulation, Quantum Chromodynamics		
Technical Fields and Topics possible for collaboration	▪ Theoretical Physics		

Details of the Research Theme

I am interested in the elementary particle physics.

It is well-known that particles like protons and neutrons, which are generally called hadrons, are basic ingredient of nuclei. The size of a hadron is quite small such that its typical diameter is about $1/1000\ 000\ 000\ 000\ 000$ meter. Surprisingly, hadrons are not yet fundamental particles and there exist further smaller particles inside them called quarks and gluons. So far, various collision experiments of hadrons using accelerators strongly suggest that the dynamics of quarks and gluons are described by the theory called quantum chromodynamics (QCD). QCD is a quantum gauge field theory associated with SU(3) group symmetry, and its lagrangian density is given by

$$\mathcal{L}_{\text{QCD}} = -\frac{1}{2}\text{tr}(G_{\mu\nu}G^{\mu\nu}) + \sum_{f=1}^{N_f} \bar{q}_f(i\gamma^\mu D_\mu + m_f)q_f$$

where

$$G_{\mu\nu} = \partial_\mu A_\nu - \partial_\nu A_\mu + ig[A_\mu, A_\nu]$$

$$D_\mu = \partial_\mu + igA_\mu$$

denote the field strength tensor and covariant derivative. " q " and " A " represent the quark and the gluon fields, respectively. The coupling " g " controls the strength of the interaction of quarks and gluons which depends on the energy scale of QCD to be applied. However, it is not straightforward to solve QCD due to its nonperturbative nature, and there are still unsolved problems even after the discovery in the 1970s. For instance, one never observe an isolated quark so far in the accelerator experiment, which means that quarks are somehow confined inside hadrons. This is called quark confinement problem. Studying nonperturbative nature of QCD, using lattice QCD simulations and effective low-energy field theories of QCD, is my current research theme.

The Study on Military and Diplomacy in Ancient China



Name	HIRATA Yoichiro	E-mail	y-hira@numazu-ct.ac.jp
Job Title	Associate professor	Degree	Doctor of literature
Academic Society and Association	SHIGAKUKAI(THE HISTORICAL SOCIETY OF JAPAN)・THE TÖYÖS HI-KENKYŪ-KAI(THE Society of Oriental Researchies)・TÖYÖSHI-KONWAKAI(THE SOCIETY OF ASIAN STUDIES)・THE TÖDAISHI-KENKYŪ-KAI(The Association of the Study of Tang History)・THE NAIRIKU AJIASHI GAKKAI(Society of Inner Asian Studies)		
Research Keywords	Ancient china・Eastern Eurasia・The history of the Military system・ The history of the Diplomatic relations		
Technical Fields and Topics possible for collaboration	<ul style="list-style-type: none"> •World history for high school students •Professional lecture on Cinese history 		

Details of the Research Theme

The Study of the Fu-bing Military System from the Northern Dynasty until the Tang Era

セールスポイント Having a clear understanding of pre-modern Chinese history

My rsearch theme is the history of ancient China's Wei, Jin, Northern and Southern Dynasties and the Sui Tand empire.

In this era, through the activities of Himiko, who is the queen of Yamataikoku, and the dispatchi of Japanese envoy to the Sui Tang Dynasty, Japan actively interacted with China. As is well known, Chinese civilization had an enormous impact on Japanese politics, society and culture.

In this way, Japan and China already have more than 2000 years of exchange history. Japan and China have to open up a new vista of the bilateral relationship on an extension of past relationship like this.

China has developed as a world factory and a world market. In the future, the presence of China will definitely increase further. For Japanese engineers to be active internationally, it will be necessary to have a basic knowledge of Chinese history and culture.

Based on such thinking, I am working on my research and lectures for students.



History classes using projectors



Lectures for international students from Asian countries



Survey of the castle ruins in China

Cultivation of Rich Expressiveness and Humanity

Name	MURAKAMI Mari	E-mail	murakami@numazu-ct.ac.jp
Job Title	Associate Professor	Degree	Master of Education (English Teaching Methods)
Academic Society and Association	Extensive Reading Association, COCET, KATE, Japan Gundoku Association		
Research Keywords	Readers' Advising, Reading Books to Children, Read Aloud in a group (Active Learning) English Teaching, Extensive English Reading		
Technical Fields and Topics possible for collaboration	<ul style="list-style-type: none"> ▪ sharing information on Extensive Reading ▪ script writing or arrangement for Read Aloud 		



Details of the Research Theme

English Teaching

Students will:

- speak, read, write and listen to English with greater confidence and skill once becoming a working professional
- develop greater tolerance towards other peoples and their cultures as a member of global community

Extensive English Reading with easy text

(Deliberately reading a large amount of comprehensive text in English)

Students will:

- improve reading fluency and reading speed
- enjoy reading a variety of books
- improve vocabulary, expression, and grammar ability, which will lead to writing and speaking ability in English

Reading Book Activity

Students will:

- increase self-awareness, reflection and critical thinking, meeting various people or situations in stories.
- become the kind of well-informed, compassionate, sensitive person our increasingly interconnected, interdependent world needs.

Read Aloud in a group as Cultural Activity

Students will:

- read various passages creatively harmonizing mind each other
- increase rich expression ability, creativity, cooperativeness, and self-reliance

From “ουχ ον” to “μη ον”



Name	ODA Shohei	E-mail	soda@numazu-ct.ac.jp
Job Title	Assistant Professor	Degree	Master of Art
Academic Society and Association	The Japanese Society for Aesthetics, The Society for Science of Literary Art, COCET		
Research Keywords	Sign / Langage, Imagination, Analogy, Fiction, Psychoanalysis, Film Studies, Tourism Studies		
Technical Fields and Topics possible for collaboration	Aesthetics and Philosophy of Arts Philosophy Tourism Studies		

Details of the Research Theme

From “ουχ ον” to “μη ον”

Philosophical Studies, Film Studies, and Tourism Studies

Idea, Eidos, God / Dieu / Gott, Geist, Socius, Unbewusste, Money, Power, Objet a, etc., in (especially Western) Humanities we can find some ‘strange’ objects or ideas (!) which are actually non-existence, these above are merely some examples of them. They are surely non-existence, nonetheless, we use such objects or ideas without effort. I wonder why we use such strange objects or ideas and they seem to exist in everyday life. We have a lot of such non-existence in Western Humanities, however they don’t have any proper words to express a lot of such non-existence. So that I use Greece words “ουχ ον” in order to express them like Jacques Lacan (1901-81), and I decide to take part in these “ουχ ον”. Since then, there are three research themes in my research : Philosophical Studies, Film Studies, and Tourism Studies.

Philosophical Studies

My first research field is Aesthetics and Philosophy of Arts, I choose 18th French Philosopher, Étienne Bonnot de Condillac (1714-80) and his first writing, *Essai sur l'origine des connaissances humaines* (1746) as my subjects. Here I show some “ουχ ον” mechanism act in his thought, and then to consider them I consult other philosophers.

Film Studies

The second field is Film Studies, French Multi-Artist, Serge Gainsbourg (1928-91) and his first film called *Je t'aime moi non plus* (1976) are my subject. Art and Art works express some “ουχ ον”.

Tourism Studies

The last is Tourism Studies, the tourism can multiply “here and now”, and “here and now” can be a sort of the Augmented Reality with the help of “imagination” or “fiction”. In addition to this, I will develop one of the tourism study methods as the methods of studying aesthetics, especially of studying aesthetic experiences.

My articles listed below is available, however only ‘Abstract’s are written in English, French, and German.

* Condillac par Derrida : L'analogie comme la méthode

* La methode analytique dans l'*Essai sur l'origine des connaissances humaines* de Condillac : La logique de la vraisemblance engendree par l'imagination

* « La femme n'existe pas » ? : Essai sur *Je t'aime moi non plus* réalisé par Serge Gainsbourg

* From “ουχ ον” to “μη ον”, Identification of “the Tourist Gaze” and “le regard lacanien” : Through a Case Study of *Love Live! Sunshine!!*

* Do Students Dream of « Sujet supposé savoir » ? : "Learning Together", Tourism Studies, and/or Jacques Lacan on Education

Prehomogeneous Vector Spaces for Dynkin Quivers



Name	KUROSAWA Yoshiteru	E-mail	y-kurosawa@numazu-ct.ac.jp
Job Title	Associate Professor	Degree	Doctor of Science
Academic Society and Association	Mathematical Society of Japan		
Research Keywords	Prehomogeneous Vector Space, Dynkin Quiver, Linear Algebraic Group		
Technical Fields and Topics possible for collaboration	<ul style="list-style-type: none"> On prehomogeneous vector spaces On Dynkin quivers 		

Details of the Research Theme

I study prehomogeneous vector spaces (abbreviated PVs) associated with (valued) quivers. The ground fields of such PVs may not be algebraically closed.

The theory of PVs is one of methods to construct zeta functions satisfying functional equations.

The oriented graphs whose underlying graphs are the following diagrams are called Dynkin quivers. For PVs associated with Dynkin quivers of type A, D and E, there are a lot of research results.

In the joint research with Makoto Nagura (National Institute of Technology Nara College) and Tomohiro Kamiyoshi (National Institute of Technology Matsue College), we introduced PVs associated with Dynkin quivers of type B, C, F and G, that is, valued Dynkin quivers. The ground fields of such PVs are not algebraically closed.

I try to construct a fundamental theory of PVs associated with Dynkin quivers of type B, C, F and G.

