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Citizenship: France
Residence status: Permanent Resident of Japan (永住権)
Languages: French (mother tongue), English (full professional proficiency), Chinese (for family or daily life purposes), Japanese (Level N-3, July 2016, ability to swap from English to Japanese during lectures), German (first foreign at school language, need reactivation).

【Professional experience】

Period (year/month)			Institution, affiliation, position
2005/10	～	2008/06	French West Indies and Guiana University, Faculty of Sports Science, Guadeloupe, France ➔ Lecturer
2008/07	～	2009/06	French National Institute of Health and Medical Research (INSERM), Guadeloupe, France ➔ Research fellow
2009/07	～	2009/10	Paternity
2009/11	～	2012/08	University of Montreal Health Centre, Research Center (CRCHUM), Laboratory of Biorheology and Medical Ultrasonics (LBUM), Montreal, Canada ➔ Postdoctoral fellow
2012/09	～	2013/08	National Institute of Health and Nutrition, Department of Health Promotion「独立行政法人国立健康･栄養研究所 健康増進研究部」, Tokyo, Japan ➔ Postdoctoral fellow
2014/09	～	2020/03	Ochanomizu University, Leading Graduate School Promotion Center「お茶の水女子大学 リーディング大学院」, Tokyo, Japan ➔ Project Associate Professor「特任准教授」
2020/04	～	2021/01	National Institutes of Biomedical Innovation, Health and Nutrition, Department of Research on Physical Activity「国立研究開発法人 医薬基盤・健康・栄養研究所 身体活動研究部」,Tokyo, Japan ➔ Researcher
2021/02	～	On-going	Ochanomizu University, Center for Interdisciplinary AI and Data Science, Department of Human and Environmental Sciences「お茶の水女子大学 文理融合 AI・データサイエンスセンター 人間環境科学科」, Tokyo, Japan ➔ Associate Professor「准教授」

【Education】

Institution name	Period (year/month)	Outcome
Lycée Parc Chabrières (high-school), Oullins, France ➔ Scientific course	1996/09 ～ 1999/08	Finished
Claude Bernard Lyon 1 University, Faculty of Sports Science, Lyon, France ➔ Bachelor's degree course	1999/09 ～ 2002/08	Graduated
Claude Bernard Lyon 1 University, Graduate school, Exercise and Health science, Lyon, France ➔ Master's degree course	2002/09 ～ 2005/08	Graduated
French West Indies and Guiana University, Graduate School, Sports science, Guadeloupe, France ➔ Doctoral course	2005/09 ～ 2008/12	Graduated
Université du Québec à Montréal (UQAM), Faculty of Management Sciences, Montréal, Canada ➔ Graduate program in Project Management	2010/09 ～ 2012/04	Finished

【Degrees and certifications】

Degree	Institution, country	Date (year/month)
Bachelor's degree in Sports Science 「Licence en Sciences et Techniques des Activités Physiques et Sportives」	Claude Bernard Lyon 1 University, France	2002/06
State Certified Sports Instructor 「Brevet d'Etat d'educateur sportif」	Ministry of Sports, France	2003/06
Master's degree in Exercise and Health Sciences 「Master en Sciences et Techniques des Activités Physiques et Sportives」	Claude Bernard Lyon 1 University, France	2005/07
PhD in Sports Science 「Doctorat en Sciences et Techniques des Activités Physiques et Sportives」 (Thesis title: Sickle cell trait carriers and physical exercise: blood rheology and vascular abnormalities)	French West Indies and Guiana University, France	2008/12
State Certified Lecturer in Sports Science 「Qualification de Maitre de Conférence en Sciences et Techniques des Activités Physiques et Sportives」	French National Council of Universities (CNU), France	2009/04 (renewed by 2020/03)
State Certified Lecturer in Physiology 「Qualification de Maitre de Conférence en Physiologie」	French National Council of Universities (CNU), France	2009/04
Graduate diploma in Project Management 「Certificat de 2nd cycle en Gestion de Projet」	Université du Québec à Montréal (UQAM), Canada	2012/04

Research achievements

Journal papers [peer-reviewed only]

[44] Nakajima Y, Kitayama A, Ohta Y, Motooka N, Kuno-Mizumura M, Miyachi M, Tanaka S, Ishikawa-Takata K, Tripette J. Objective assessment of physical activity at home using a novel floor-vibration monitoring system: validation and comparison with wearable activity trackers and indirect calorimetry measurements. JMIR Formative Research. 2024 Apr 25:8:e51874

[43] Yamada Y, Yoshida T, Murakami H, Gando Y, Kawakami R, Ohno H, Tanisawa K, Konishi K, Tripette J, Kondo E, Nakagata T, Nanri H, Miyachi M. Body cell mass to fat-free mass ratio and extra- to intracellular water ratio are related to maximal oxygen uptake. *Journals of Gerontology Series A: Biological Sciences and Medical Sciences*. 2023 Oct 9;78(10):1778-1784.

[42] Yamada Y, Yoshida T, Murakami H, Kawakami R, Gando Y, Ohno H, Tanisawa K, Konishi K, Tripette J, Kondo E, Nakagata T, Nanri H, Miyachi M. **P**hase angle obtained via bioelectrical impedance analysis and objectively measured physical activity or exercise habits. *Scientific Reports.* 2022 Oct 14;12(1):17274.

[41] Anzai E, Ren D, Cazenille L, Aubert-Kato N, Tripette J, Ohta Y. Random forest algorithms to classify frailty and falling history in seniors using plantar pressure measurement insoles: a large-scale feasibility study. *BMC Geriatrics.* 2022 Sep 12;22(1):746. Correction (2022 Dec 8;22(1):946) published for affiliation-related matters.

[40] Nakagata T, Murakami H, Kawakami R, Tripette J, Nakae S, Yamada Y, Ishikawa-Takata Kazuko, Tanaka Shigeho, Miyachi M. Step-count outcomes of 13 different activity trackers: Results from laboratory and free-living experiment. *Gait & Posture*. 2022 Oct;98:24-33.

[39] Tripette J, Gando Y, Murakami H, Kawakami R, Tanisawa K, Ohno H, Konishi K, Tanimoto M, Tanaka N, Kawano H, Yamamoto K, Morishita A, Iemitsu M, Sanada K, Miyatake N, Miyachi M. Effect of a 1-year intervention comprising brief counselling sessions and low-dose physical activity recommendations in Japanese adults, and retention of the effect at 2 years: a randomized trial. *BMC Sports Science, Medicine and Rehabilitation*. 2021 Oct 25; 13-133.

[38] Ren D, Aubert-Kato N, Anzai E, Ohta E, Tripette J. Random forest algorithms for recognizing daily life activities using plantar pressure information: A smart-shoe study. *PeerJ*. 8:e10170

[37] Tripette J, Murakami H, Hara H, Kawakami R, Gando Y, Ohno H, Miyatake N, Miyachi M. Caffeine Consumption is Associated With Higher Level of Physical Activity in Japanese Women. *International Journal of Sport Nutrition and Exercise Metabolism*. 2018 Sep 1;28(5):474-479

[36] Ouedraogo V, Connes P, Tripette J, Tiendrébéogo AJF, Sow AK, Diaw M, Seck M, Diop M, Hallab M, Belue R, Samb A, Ba A and Lefthériotis G. Pulse Wave Velocity is lower in trained than in untrained sickle cell trait carriers. *Clinical Hemorheology and Microcirculation*. 2018;69(3):417-24

[35] Tripette J, Murakami H, Ryan KR, Ohta Y, Miyachi M. The contribution of Nintendo Wii Fit series in the field of health: a systematic review and meta-analysis. *PeerJ.* 2017 Sep 5;5:e3600

[34] Kusuda K, Yamashita K, Ohnishi A, Tanaka K, Masaru K, Honda H, Tanaka S, Okubo T, Tripette J, Ohta Y. Management of surgical instruments with radio frequency identification tags: A 27-month in hospital trial. *International Journal of Health Care Quality Assurance*. 2016 29 (2): 236-47

[33] Miyachi M, Tripette J, Kawakami R, Murakami H. "+10 min of physical activity per day": Japan wants feasible and efficient recommendation for its population. *Journal of Nutrition Science and Vitaminology*. 2015. 2015;61 Suppl:S7-9.

[32] Tripette J, Nguyen LC, Allard L, Robillard P, Soulez G, Cloutier G. In-vivo ultrasonic measurement of RBC aggregation in diabetic patients: a pilot study. *Plos One.* 2015 Apr 23;10(4): e0124712.

[31] Miyachi M, Kurita S, Tripette J, Takahara R, Yagi Y, Murakami H. Installation of a stationary high desk in the workplace: effect of 6-weeks intervention on physical activity. *BMC Public Health*. 2015 Apr 12;15:368.

[30] Murakami H, Tripette J, Kawakami R, Miyachi M. "Add 10 min for your health": the new Japanese recommendation for physical activity based on dose-response analysis. *Journal of the American College of Cardiology*. 2015 Mar 24;65(11):1153-4.

[29] Tripette J, Murakami H, Kawakami R, Tanaka N, Tanaka S, Miyachi M. Wii Fit U intensity and enjoyment in adults. *BMC research notes*. 2014 Aug 26;7:567.

[28] Tripette J, Ando T, Murakami H, Yamamoto K, Ohkawara K, Tanaka S, Miyachi M. Evaluation of active video games intensity: comparison between accelerometer-based predictions and indirect calorimetric measurements. *Technology and Health Care.* 2014 Jan 1;22(2):199-208.

[27] Tripette J, Murakami H, Gando Y, Kawakami R, Sasaki A, Hanawa S, Hirosako A, Miyachi M. Home-based active video games to promote weight loss during the postpartum period. *Medicine & Science in Sports and Exercise*. 2014 Mar;46(3):472-8.

[26] Mfoumou E, Tripette J, Blonstein M, Cloutier G. Time-dependent hardening of blood clots quantitatively measured in vivo with shear-wave ultrasound imaging in a rabbit model of venous thrombosis. *Thrombosis Research.* 2014 Feb;133(2):265-71

[25] Diaw M, Connes P, Samb A, Sow AK, Sall ND, Sar FB, Ba A, Diop S, Niang MN, Tripette J. Intraday blood rheological changes induced by Ramadan fasting in sickle cell trait carriers. *Chronobiology International.* 2013; Nov;30(9):1116-22.

[24] Tripette J, Denault AY, Allard L, Chayer B, Perrault LP, Cloutier G. Ultrasound monitoring of RBC aggregation as a real-time marker of the inflammatory response in a cardiopulmonary bypass swine model. *Critical Care Medicine*. 2013; Aug;41(8):171-8.

[23] Tripette J, Hardy-Dessources MD, Romana M, Hue O, Diaw M, Samb A, Diop S, Connes P. Exercise-related complications in sickle cell trait. *Clinical Hemorheology and Microcirculation*. 2013 Jan 1;55(1):29-37.

[22] Messonnier L, Samb A, Tripette J, Doubi BG, Loko G, Sall ND, Feasson L, Hue O, Lamothe S, Bogui P, Connes P. Moderate endurance exercise is not a risk for rhabdomyolysis or renal failure in sickle cell trait carriers. *Clinical Hemorheology and Microcirculation.* 2012;51(3):193-202.

[21] Connes P, Pichon A, Hardy-Dessources MD, Waltz X, Lamarre Y, Simmonds MJ, Tripette J. Blood viscosity and hemodynamics at exercise. *Clinical Hemorheology and Microcirculation.* 2012;51(2):101-9.

[20] Simmonds MJ, Tripette J, Sabapathy S, Marshall-Gradisnik SM, Connes P. Cardiovascular dynamics during exercise are related to blood rheology. *Clinical Hemorheology and Microcirculation*. 2011;49(1):231-41.

[19] Tripette J, Hardy-Dessources MD, Beltan E, Sanouiller A, Bangou J, Chalabi T, Chout R, Hedreville M, Broquere C, Nebor D, Dotzis G, Hue O, Connes P. Endurance running trial in tropical environment: a blood rheological study. *Clinical Hemorheology and Microcirculation.* 2011;47(4):261-8.

[18] Yu FTH, Armstrong JK, Tripette J, Meiselman HJ, Cloutier G. A Local Increase in Red Blood Cell Aggregation Can Trigger Deep Vein Thrombosis: Evidence Based on Quantitative Cellular Ultrasound Imaging. *Journal of Thrombosis and Haemostasis.* 2011; Mar;9(3):481-8.

[17] Chaar V, Romana M, Tripette J, Broquere C, Huisse MG, Hue O, Hardy-Dessources MD, Connes P. Effect of strenuous physical exercise on circulating cell-derived microparticles. *Clinical Hemorheology and Microcirculation.* 2011;47(1):15-25.

[16] Beltan E, Chalabi T, Tripette J, Chout R, Connes P. Coagulation responses after a submaximal exercise in sickle cell trait carriers. *Thrombosis Research.* 2011 Feb;127(2):167-9.

[15] Tripette J, Loko G, Samb A, Doubi Gogh B, Sewade E, Seck D, Hue O, Romana M, Diop S, Diaw M, Brudey K, Bogui P, Cissé F, Hardy-Dessources MD, Connes P. Effects of hydration and dehydration on blood rheology in sickle cell trait carriers during exercise. *American Journal of Physiology-Heart and Circulatory Physiology.* 2010 Sep:299(3):H908-14.

[14] Tripette J, Connes P, Beltan E, Chalabi T, Marlin L, Chout R, Baskurt OK, Hue O, Hardy-Dessources MD. Red blood cell deformability and aggregation, cell adhesion molecules, oxidative stress and nitric oxide markers after a short term, submaximal, exercise in sickle cell trait carriers. *Clinical Hemorheology and Microcirculation.* 2010;45(1):39-52.

[13] Alexy T, Sangkatumvong S, Connes P, Pais E, Tripette J, Barthelemy JC, Fisher TC, Meiselman HJ, Khoo MC, Coates TD. Sickle cell disease: selected aspects of pathophysiology. *Clinical Hemorheology and Microcirculation.* 2010;44(3):155-66.

[12] Tripette J, Connes P, Hedreville M, Etienne-Julan M, Marlin L, Hue O, Hardy-Dessources MD. Patterns of exercise-related inflammatory response in sickle cell trait carriers. *British Journal of Sports Medicine*. 2010 Mar;44(4):232-7.

[11] Tripette J, Alexy T, Hardy-Dessources MD, Mougenel D, Beltan E, Chalabi T, Chout R, Etienne-Julan M, Hue O, Meiselman HJ, Connes P. Red blood cell aggregation, aggregate strength and oxygen transport potential of blood are abnormal in both homozygous sickle cell anemia and sickle-hemoglobin C disease. *Haematologica.* 2009 Aug;94(8):1060-5.

[10] Connes P, Tripette J, Mukisi-Mukaza M, Baskurt OK, Toth K, Meiselman HJ, Hue O, Antoine-Jonville S. Relationships between hemodynamic, hemorheological and metabolic responses during exercise. *Biorheology.* 2009;46(2):133-43.

[9] Uyuklu M, Cengiz M, Ulker P, Hever T, Tripette J, Connes P, Nemeth N, Meiselman HJ, Baskurt OK. Effects of storage duration and temperature of human blood on red cell deformability and aggregation. *Clinical Hemorheology and Microcirculation.* 2009;41(4):269-78.

[8] Connes P, Uyuklu M, Tripette J, Boucher JH, Beltan E, Chalabi T, Yalcin O, Chout R, Hue O, Hardy-Dessources MD, Baskurt OK. Sampling time after tourniquet removal affects erythrocyte deformability and aggregation measurements. *Clinical Hemorheology and Microcirculation.* 2009;41(1):9-15.

[7] Monchanin G, Serpero LD, Connes P, Tripette J, Wouassi D, Francina A, Massarelli R, Gozal D, Thiriet P, Martin C. Plasma levels of adhesion molecules ICAM-1 and VCAM-1 in athletes with sickle cell trait with or without alpha-thalassemia during endurance exercise and recovery. *Clinical Hemorheology and Microcirculation.* 2008;40(2):89-97.

[6] Hédreville M, Barthélémy JC, Tripette J, Roche F, Hardy-Dessources MD, Pichot V, Hue O, Connes P. Effects of strenuous exercise on autonomic nervous system activity in sickle cell trait carriers. *Autonomic Neuroscience*. 2008 Dec 5;143(1-2):68-72.

[5] Connes P, Hue O, Tripette J, Hardy-Dessources MD. Blood rheology abnormalities and vascular cell adhesion mechanisms in sickle cell trait carriers during exercise. *Clinical Hemorheology and Microcirculation*. 2008;39(1-4):179-84.

[4] Connes P, Tripette J, Chalabi T, Beltan E, Etienne-Julan M, Chout R, Hue O, Hardy-Dessources MD. Effects of strenuous exercise on blood coagulation activity in sickle cell trait carriers. *Clinical Hemorheology and Microcirculation.* 2008;38(1):13-21.

[3] Tripette J, Hardy-Dessources MD, Sara F, Montout-Hedreville M, Saint-Martin C, Hue O, Connes P. Does repeated and heavy exercise impair blood rheology in carriers of sickle cell trait? *Clinical Journal of Sports Medicine.* 2007 Nov;17(6):465-70.

[2] Marlin L, Connes P, Antoine-Jonville S, Tripette J, Montout-Hedreville M, Sanouiller A, Etienne-Julan M, Hue O. Cardiorespiratory responses during three repeated incremental exercise tests in sickle cell trait carriers. *European Journal of Applied Physiology.* 2008 Jan;102(2):181-7.

[1] Monchanin G, Serpero LD, Connes P, Tripette J, Wouassi D, Bezin L, Francina A, Ngongang J, de la Peña M, Massarelli R, Gozal D, Thiriet P, Martin C. Effects of progressive and maximal exercise on plasma levels of adhesion molecules in athletes with sickle cell trait with or without alpha-thalassemia. *Journal of Applied Physiology.* 2007 Jan;102(1):169-73.

Books

[1] Connes P, Beltan P, Chalabi T, Tripette J."Chapter XIV: Effects of exercise on blood coagulation activity in sickle cell trait carriers: abnormalities or not? In: Handbook of Hematology Research – Blood Coagulation: Hemorheology, Hemophilia and Blood Coagulation", Editors: Remi Tondre, Charles Lebegue, Nova Science Publisher, 2009, pp.303-310.

Pre-prints

[1] Tripette J, Ohta Y. Health, time, and financial co-benefits of active travelling: a case report of one cyclist in the Tokyo metropolitan area**.**
http://www.eng.ocha.ac.jp/Tripette_Site/Tripette&Ohta2018_Main.pdf

Conference talks with published proceedings [peer-reviewed only]

[5] Tripette J, Sasaki M, Kuno-Mizumura M, Motooka N, Ohta Y. Monitoring floor vibrations to evaluate objectively physical activity during housework activities. *IEEE LifeTech*, Nara, Japan, March, 2021.

[4] Anzai E, Tripette J, Nakajima K, Ohta Y. Comparative study between a novel 7-sensor plantar pressure measurement insole and the F-scan device. *IEEE LifeTech*, Kyoto, Japan, March, 2020.

[3] Montagnon E, Tripette J, Mfoumou E, Cloutier G. Acoustic radiation force induced elastography (ARFIRE): A new method to characterize blood clot viscoelastic properties. *IEEE Ultrasonics Symposium*, Dresden, Germany, October, 2012. *PROCEEDINGS*: 13-16.

[2] Cloutier G, Allard L, Chayer B, Tripette J, Perrault LP, Denault AY, In vivo and real-time monitoring of red blood cell aggregation with the structure factor size and attenuation estimator during and after cardiopulmonary bypass surgery in swine, *IEEE Ultrasonics Symposium*, San Diego, USA, september 2010. *PROCEEDINGS*: 616-619.

[1] Nguyen LC, Tripette J, Franceschini E, Chiasson JL, Robillard P, Soulez G, Cloutier G, In situ characterization of red blood cell aggregation measured with high frequency ultrasound in type 2 diabetic patients, *IEEE Ultrasonics Symposium*, San Diego, USA, september 2010. *PROCEEDINGS*:612-615.

Invited talks

[8] Orihara A, Aubert-Kato N, Nakagata T, Ohta Y, Tripette J. Recognizing kickboard and skateboarding activities using activity tracker data. Complex Systems approaches for Molecular Robotics. Tokyo, Japan (December 2022)**.**

[7] Tripette J, Murakami H, Miyachi M. Does caffeine help sedentary people to be more physically active? *the 6th Food for Life Science Forum on "The Role of Microbiota in Human Health"*. Tokyo, Japan (November 2016).

[6] Tripette J. The contribution of active video games to the field of sports medicine [活動的なビデオゲームのスポーツ医学領域に対する貢献]、The 166th meeting of members from the Kanto area of Japanese Society of Physical Fitness and Sports Medicine. Tokyo, Japan (March 2016).

[5] Tripette J. Wii Fit for rehabilitation and health promotion. *Shahid Beheshti University*, Tehran, Iran (August 2015).

[4] Tripette J, Murakami H, Ando T, Kawakami R, Tanaka S, Miyachi M. Active video games for health promotion: from METs evaluation to physical intervention in young adults. The 68th conference of the Japanese Society of Physical Fitness and Sports Medicine. Tokyo, Japan (September 2013). *Japanese Journal of Physical Fitness and Sports Medicine.* 2014;63(1):159-163.

[3] Tripette J, Denault AY, Allard L, Chayer B, Perrault LP, Cloutier G, Ultrasonic monitoring of inflammation during CPB surgery in pigs. *The 6th annual Canadian winter Cardiac Team meeting*, Mont-Tremblant, Canada (February 2011).

[2] Tripette J. Physical exercise in sickle cell trait carriers: hemorheology and vascular abnormalities. *University of Calgary.* Calgary, Canada (July-August 2009).

[1] Tripette J. Hemorheological alterations in sickle cell disease: past and current research. *Cheikh Anta Diop University*, Dakar, Senegal (January 2009).

Conference talks [peer-reviewed only] - *with abstracts published in Pubmed-indexed journals*

[14] Diaw M, Ba A, Sow AK, Tripette J, Diop S, Sall ND, Mbengue A, Sar FB, Bogui P, Samb A, Connes P. Effects of exercise and dehydration on blood rheology in sickle cell trait carriers. *Abstracts of the 3rd Congress of Physiology and Integrative Biology and 86th Congress of French Physiological Society,* Nouvelle Faculté de Médecine, Montpellier, France (June 2019). *Acta Physiologica*. 2019;227(S720):22.

[13] Tripette J, Murakami H, Kawakami K, Sasaki A, Hara H, Miyachi M. Does caffeine consumption induce higher physical activity in sedentary people undergoing an exercise intervention? *American College of Sport Medicine's 2014 Annual Meeting.* Orlando, Florida, USA (May 2014). *Medicine & Science in Sports & Exercise*. 2014;46(5S):113.

[12] Tripette J, Hardy-Dessources MD, Romana M, Connes C. Exercise-related complications in sickle cell trait: the hemorheological hypothesis. *14th International Congress of Biorheology and 7th International Conference on Clinical Hemorheology,* Istanbul, Turkey (July 2012). *Biorheology.* 2012;49(2-3):83-234.

[11] Cloutier G, Tripette J, Yu FT, Franceschini E. In-vivo ultrasonic assessment of red blood cell aggregation: review of current cardiovascular applications. *14th International Congress of Biorheology and 7th International Conference on Clinical Hemorheology,* Istanbul, Turkey (July 2012). *Biorheology.* 2012;49(2-3):183-184.

[10] Mfoumou E, Tripette J, Cloutier G. In vivo quantitative assessment of blood clot hardening using dynamic ultrasound elastography: evaluation in a rabbit model of venous thrombosis. *14th International Congress of Biorheology and 7th International Conference on Clinical Hemorheology,* Istanbul, Turkey (July 2012). *Biorheology.* 2012;49(2-3):191-192.

[9] Tripette J, Denault AY, Allard L, Chayer B, Perrault LP, Cloutier G. Real-time ultrasound monitoring of rbc aggregation as a surrogate marker of inflammation during and after cardiopulmonary bypass surgery: pre-clinical results. *14th International Congress of Biorheology and 7th International Conference on Clinical Hemorheology,* Istanbul, Turkey (July 2012). *Biorheology.* 2012;49(2-3):216-217.

[8] Simmonds M, Tripette J, Sabapathy S, Marshall-Gradisnik S, Connes P. Blood rheology may facilitate changes in cardiovascular dynamics at the onset of submaximal cycling. *2011 Australian Conference of Science and Medicine in Sport "Optimising health and fitness–Participation, prevention and performance"*. Perth, Australia (October 2011). *Journal of Science and Medicine in Sport*. 2011;14S(1):101.

[7] Connes P, Hue O, Hardy-Dessources MD, Hedreville M, Boucher JH, Tripette J, Pichot V & Barthelemy JC. Autonomic nervous system activity and blood rheology impairment in sickle cell trait carriers.*13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). *Biorheology.* 2008;45(1-2):87-87.

[6] Connes P, Tripette J, Mukisi-Mukaza M, Baskurt OK, Toth K, Meiselman HJ, Hardy-Dessources MD, Hue O & Antoine-Jonville S. Hemodynamical, hemorheological and cardiorespiratory responses during exercise. *13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). Biorheology. 2008;45(1-2):49-50.

[5] Connes P, Uyuklu M, Tripette J, Boucher JH, Beltan E, Chalabi E, Yalcin O, Chout R, Hue O, Hardy-Dessources MD & Baskurt OK. Sampling time after tourniquet removal affects erythrocyte deformability and aggregation measurements.*13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). Biorheology. 2008;45(1-2):25-26.

[4] Tripette J, Hardy-Dessources MD, Hedreville M, Chalabi T, Beltan E, Marlin L, Chout R, Etienne-Julan M, Hue O & Connes P. Effects of prolonged exercise on blood rheology, vascular adhesion molecules and oxidative stress in sickle cell trait carriers. *13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). Biorheology. 2008;45(1-2):48-49.

[3] Alexy T, Hardy-Dessources MD, Tripette J, Wenby RB, Mougenel D, Jonhson CS, Beltan E, Chalabi T, Chout R, Etienne-Julan M, Hue O, Meiselman HJ, Connes P. Elevated disaggregating shear stress in sickle cell disease. *13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). *Biorheology*. 2008;45(1-2):113.

[2] Chaar V, Romana M, Tripette J, Broquere C, Huisse MG, Hue O, Hardy-Dessources MD, Connes P. Effect of strenous exercise on circulating cell-derived microparticles. *13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). *Biorheology*. 2008;45(1-2):174-175.

[1] Tripette J, Hardy-Dessources MD, Beltan E, Sanouiller A, Bangou J, Chalabi T, Chout R, Hedreville M, Broquere C, Nebor D, Dotzis G, Hue O and Connes P. Endurance running trial in tropical environment: a blood rheological study. *13th International Congress of Biorheology and 6th International Conference on Clinical Hemorheology,* Penn State, USA (July 2008). *Biorheology*. 2008;45(1-2):175-176.

Conference talks [peer-reviewed only, international]

[19] Hitomi H, Aubert-Kato N, Nakagata T, Ohta Y, Tripette J. Activity recognition using data from wearable sensors and smart shoe devices: classifying kick-board and skateboard commuting behaviors. *The 9th International Conference on Ambulatory Monitoring of Physical Activity and Movement*, Rennes, France (June 2024)

[18] Nakajima Y, Motooka N, Ohta Y, Tripette J. Estimating energy expenditure by using floor vibration monitoring technology in bedroom settings. *The 9th International Conference on Ambulatory Monitoring of Physical Activity and Movement*, Rennes, France (June 2024)

[17] Diaw M, Coly MS, Charlot K, Miyachi M, Yoshida T, Diop S, Nader E, Ranque B, Samb A, Connes P, Tripette J. Relationships between lifestyle physical activity and acute symptoms, blood viscosity and vascular abnormalities in sub-Saharan African patients with sickle cell disease. *The 3rd World Congress of ESCHM-ISCH-ISB meeting*, Regensburg, Germany (September 2023)

[16] Tripette J, Orihara A, Aubert-Kato N, Nakagata T, Ohta Y. Recognizing kickboard and skateboarding behaviors using wearable activity tracker devices. *ECSS Paris 2023 - European College of Sport Science*, Paris, France (July 2023)

[15] Naka R, Coly MS, Diaw M, Gadji M, Samb A, Diop S, Faye FB, Nader E, Ranque B, Charlot K, Connes P, Yoshida T, Miyachi M, Tripette J. Temporal relationship between objectively measured physical activity and pain occurrence in patients with sickle cell anemia: a pilot study. *ECSS Paris 2023 - European College of Sport Science*, Paris, France (July 2023)

[14] Do TTQ, Pham TL, Ren D, Tripette J, Bashar MDK, Richards GJ. Household scale greywater treatment and potential use for hydroponic system. *International Water Association conference on Small Water and Wastewater Systems*. Perth, Australia (December 2019)**.**

[13] Ren D, Aubert-kato N, Anzai E, Ohta Y, Tripette J. Recognition of human activities using plantar pressure measurements: a smart-shoes study. *The 6th International Conference on Ambulatory Monitoring of Physical Activity and Movement*, Maastricht (June 2019)

[12] Tripette J, Sasaki M, Motooka N, Ohta Y. Assessing physical activity using floor vibrations in a smart home setting. *The 6th International Conference on Ambulatory Monitoring of Physical Activity and Movement*, Maastricht (June 2019)

[11] Tripette J, Sasaki M, Motooka N, Ohta Y. Assessing physical activity using floor vibration in a smart home setting. *The 16th Meeting of the International Society of Behavioral Nutrition and Physical Activity.* Victoria, Canada (June 2017).

[10] Tripette J, Kaneko S, Motooka N, Ohta Y. Measuring step-count at home using floor vibrations (OchaHouse Project). *The 6th International Congress on Physical Activity and Health*. Bangkok, Thailand (November 2016).

[9] Tripette J, Miyachi M, Kawakami R, Murakami H. Does caffeine consumption induce higher volume of physical activity? Findings from a Japanese cohort study. *The 15th Meeting of the International Society of Behavioral Nutrition and Physical Activity.* Cape Town, South Africa (June 2016).

[8] Tripette J, Ando T, Murakami H, Yamamoto K, Ohkawara K, Tanaka S, Miyachi M. Evaluation of active video games intensity and methodological concerns. *3rd international conference on Recent Advances and Controversies in Measuring Energy Metabolism.* Tokyo, Japan (September 2014).

[7] Tripette J, Denault AY, Allard L, Chayer B, Perrault LP, Cloutier G, In-vivo and real-time ultrasound monitoring of inflammation through the assessment of red blood cell aggregation during and after cardiopulmonary bypass surgery in pigs. *The 2011 Annual Meeting of the Canadian Anesthesiologists' Society*, Toronto, Canada (June 2011).

[6] Connes P, Tripette J, Romana M, Hue O & Hardy-Dessources MD. Impaired blood rheology in SCT carriers during exercise but few anomalies: why? *15th Conference of the European Society for Clinical Hemorheology and Microcirculation*, Pontresina/Saint-Moritz, Switzerland (June-July 2009).

[5] Tripette J, Hardy-Dessources MD, Hedreville M, Chalabi T, Beltan E, Marlin L, Chout R, Etienne-Julan M, Hue O & Connes P. Hemorheological alterations and oxidative stress in sickle cell trait carriers after exertion. *The 7th Asian Congress of Microcirculation and 6th Chinese National Congress of Microcirculation,* Taishan, China (October 2009).

[4] Connes P, Hue O, Tripette J & Hardy-Dessources MD. Blood rheology abnormalities and vascular cell adhesions mechanisms in sickle cell trait carriers during exercise. *14th Conference of the european society for clinical hemorheology and microcirculation*, Dresden, Germany (June 2007).

[3] Tripette J, Hardy-Dessources MD, Sara F, Montout-Hedreville M, Marlin L, Saint-Martin C, Hue O & Connes P. Does prolonged and heavy exercise impair blood rheology in sickle cell trait carriers? *2nd Eurosummer School on Biorheology & Symposium on Micro Mechanobiology of Cells, Tissues and Systems*, Varna, Bulgaria (septembre 2006).

[2] Monchanin G, Serpero Laura D, Connes P, Tripette J, Wouassi D, Bezin L, Francina A, Ngongang J**,** de la Peña M, Massarelli R, Gozal D, Thiriet P & Martin C. Effects of exercise on plasma levels of adhesion molecules in athletes with sickle cell trait with or without α-thalassemia. *11th annual Congress of European College of Sport Science,* Lausanne, Switzerland (June 2006).

[1] Sara F, Connes P, Hardy-Dessources MD, Marlin L, Montout-Hedreville M, Tripette J, Étienne-Jullan M, Saint-Martin C, Barthélémy JC & Hue O. Sickle cell trait carriers: are they comparable to subjects with normal hemoglobin? from cellular biology to the cardiovascular approach. *15th Meeting of the Caribbean Academy of Sciences,* Le Gosier, France (May 2006).

Conference talks [peer-reviewed only, domestic]

[10] トリペッテ　ジュリアン、コリ　マメ、ガジ　マクラ、コンヌ　フィリップ、シャルロ　ケン、吉田司、宮地元彦、ディオ　モル. 鎌状赤血球症患者における血管閉塞症及び血管パラメータに対する身体活動の影響：予備結果. 第 76 回日本体力医学会大会、津市、日本、2021 年 9 月

[9] トリペッテジュリアン、丸藤祐子、村上晴香、川上諒子、家光素行、真田樹義、宮武伸行、宮地元彦．1 年間の低用量身体活動指導の介入と持続の効果: NEXIS．第 75 回日本体力医学会大会、鹿児島市、日本、2020 年 9 月

[8] トリペッテ　ジュリアン、任点、安在絵美、オベルカトウ　ナタナエルウ、太田裕治．足底圧計測スマートシューズによる行動認識アルゴリズムの提案．第 74 回日本体力医学会大会、つくば市、日本、2019 年 9 月

[7] Li DY, Tamura R, Nakajima T, Gouraud S, Tripette J, Fukutome N & Caballero Y. The influence of tea leave particle size on catechin extraction and green tea sensory acceptance. The 2019 Annual Meeting of the Japan Society for Bioscience, Biotechnology, and Agrochemistry. Tokyo, Japan (March 2019).

[6] トリペッテ　ジュリアン、佐々木美緒、赤尾真菜、元岡展久、太田裕治．床振動を用いた住居内での身体活動量の推定、第 73 回日本体力医学会大会、福井市、日本、2018 年 9 月。

[5] Sasaki M, Tripette J, Saiwaki N, Motooka N, Ohta Y.　住居における床振動情報を用いた日常生活動作時の居住者の歩数抽出及び部屋特定のアルゴリズムの開発、第 33 回ライフサポート学会大会、東京都、日本、2017年9月。

[4] Tripette J, Nakajima C, Motooka N, Ohta Y. Ochahouse　project: monitoring　physical　activity using　floor acceleration. 第 70 回日本体力医学会大会、和歌山市、日本、2014 年 9 月。

[3] Tripette J, Murakami H, Kawakami R, Miyachi M. +10 minutes of physical activity per day": the Japanese Physical Activity Guidelines. *The 14th Annual Conference of the Society of Chinese Scholars on Exercise Physiology and Fitness: Attaining Quality of Life through Physical Activity.* Macau, China (July 2015).

[2] Tripette J, Murakami H, Miyachi M. From 2007 to 2014: the contribution of Wii Fit for health promotion. 第 69 回日本体力医学会大会、長崎市、日本、2014 年 9 月。

[1] Tripette J, Connes P, Montout-Hedreville M, Saint-Martin C, Marlin L, Hue O & Hardy-Dessources MD. Effects of repeated and intense exercise on blood rheology and adhesion molecules in sickle cell trait carriers. *12th International ACAPS Conference,* Leuven, Belgium (October-November 2007).

Other conference talks [not peer-reviewed]

[2] Ren D, Aubert-Kato N, Ohta Y, Tripette J. Foret d'arbres décisionnels pour la reconnaissance d'activité à partir de données de pressions plantaires. *Journées Francophone de la Recherche 2019*, Tokyo (October 2019)

[1] Ren D, Sasaki M, Motooka N, Aubert-kato N, Ohta Y, Tripette J. Chaussures et habitats intelligents pour une évaluation omniprésente de l'activité physique. *Journées Francophone de la Recherche 2018*, Tokyo (December 2018)

Patents

[1] Title: Action determination device, action determination system, action determination method, and program「行動判定装置、行動判定システム、行動判定方法及びプログラム」

Authors: Ohta Y, Tripette J, Aubert-Kato N, Ren D「太田裕治、トリペッテ　ジュリアン、オベルカトウ　ナタナエル、任点」

International classification: A43D 1/02.

Date of submission: 2019.

Patent Cooperation Treaty protocol: Yes.

Patent ID number: PCT/JP2019/046859.

Industry-academic partnerships

[2] Year: 2013

Company: Itoki Corp.

Content: Evaluation of the physical activity for employees using standing work stations

[1] Year: 2012

Company: Nintendo Co., Ltd.

Content: Development of a calorimeter for the Wii Fit U active video game software

External funds

External research grants

- Acquired as PI: 7
- Acquired as Co-investigator: 1
- Contribute as a Research collaborator: 2
- Total amount awarded in Japan only: 36,340,000 JPY
- Total amount awarded as a PI only in Japan only: 31,380,000 JPY

[10] Name of the fund: 精密測定技術振興財団研究費 (Foundation for the Promotion of Precision Measurement Technology – Research Grant)
Project title: 床振動情報を利用した無侵襲エネルギー消費量推定子ども部屋 の開発 (development of a non-invasive energy consumption estimation system for children room using floor vibration information)
Amount: 2,500,000 JPY
Period of research: 2024/01～2025/03
Role and allocated amount: Principal Investigator

[9] Name of the fund: Japan Society for the Promotion of Science - Grant-in-Aid for Scientific Research (C)「日本学術振興会 基盤研究（C）」
Project title: "Integrating smart-shoes in a multi-sensing network of activity trackers for an accurate assessment of physical behaviors and daily energy expenditure."
Amount: 4,290,000 JPY
Period of research: 2021/04～2024/03 [extended to 2025/03]
Role and allocated amount: Principal Investigator

[8] Name of the fund: Japan Society for the Promotion of Science - Fostering Joint International Research (B) 「日本学術振興会 国際共同研究強化（B）」
Project title: "Physical activity in patients with sickle cell disease: Effects on the vascular function, frequency of painful episodes and clinical course of the disease"
Amount: 17,030,000 JPY
Period of research: 2019/10～2023/03 [extended to 2025/03]
Role and allocated amount: Principal Investigator

[7] Name of the fund: Nestle Nutrition Council Research Grant
Project title: "Does caffeine help sedentary people to be more active?"
Amount: 1,000,000 JPY
Period of research: 2015/04～on-going (until expiration of the fund)
Role and allocated amount: Principal Investigator

[6] Name of the fund: Japan Society for the Promotion of Science - Grant-in-Aid for Early-Career Scientists (B) 「日本学術振興会 若手研究（B）」
Project title: 健康の維持増進を目的とした床振動情報に基づく無侵襲活動モニタリングシステム (a non-intrusive physical activity monitoring system using indoor floor vibration information for the promotion of health)
Amount: 4,160,000 JPY
Period of research: 2015/04～2019/03
Role and allocated amount: Principal Investigator

[5] Name of the fund: Japan Society for the Promotion of Science - Grant-in-Aid for Scientific Research (C) 「日本学術振興会 基盤研究（C）」
Project title:日常身体活動の多面的パターン化とその個人差における遺伝要因の解明 (genetic factors inducing individual differences in physical activity patterns)
Amount: 4,470,000 JPY
Period of research: 2015/04～2018/03
Role and allocated amount: Co-Investigator → 100,000 JPY

[4] Name of the fund: 精密測定技術振興財団研究費 (Foundation for the Promotion of Precision Measurement Technology – Research Grant)
Project title: 生活動作に伴う住宅床振動情報を利用した完全無侵襲エネルギー消費量推定手法の開発 (development of a non-invasive energy consumption estimation method using the floor vibrations associated with the activity of the daily life performed at home)
Amount: 1,700,000 JPY
Period of research: 2015/04～2016/03
Role and allocated amount: Principal Investigator

[3] Name of the fund: 花王株式会社研究費 (Kao Corporation Research Grant)
Project title: カフェインは座位活動中心の人々において有益な身体活動パターンを引き起こすか？ (Does caffeine induce beneficial physical activity behaviour in sedentary people?)
Amount: 1,000,000 JPY
Period of research: 2014/04～2015/03
Role and allocated amount: Research Collaborator → 0 JPY

[2] Name of the fund: Japan Society for the Promotion of Science - Grant-in-Aid for JSPS Fellows 「日本学術振興会 特別研究員奨励費」
Project title: 肥満者の運動リハビリツールとしての新世代アクティブテレビゲームの利用 (Active Video Games as an exercise re-adaptation tool for obese people)
Amount: 1,000,000 JPY
Period of research: 2013/04～2015/03
Role and allocated amount: Principal Investigator

[1] Name of the fund: Institut de Recherche pour le Development – Programme CORUS II (French - Research Institute for the Development – CORUS II Program)
Project title: “Effect of ad-libitum hydration on exercise-related cardiovascular risks in sickle cell trait carriers”
Amount: 62,000€
Period of research: 2008/09～2011/08
Role and allocated amount: Research Collaborator → 0 JPY

Fellowships (awards only)

- Total amount awarded in Japan only: 16.095.000 JPY
- Total amount awarded as host: 4.344.000 JPY

[3] Name of the fund: Japan Society for the Promotion of Science – Foreign postdoctoral fellow (short-term)「日本学術振興会　外国人特別研究員（短期）」
Project title: 鎌状赤血球症患者の身体活動と痛みの時間的関係 (Temporal relationship between physical activity and pain in patients with sickle cell disease)
Recipient: Matthieu Gallou-Guyot
Amount: 4,344,000 JPY
Period of research: 2023/03～2024/02

[2] Name of the fund: Japan Society for the Promotion of Science – Foreign postdoctoral fellow
「日本学術振興会　外国人特別研究員」
Project title: 肥満者の運動リハビリツールとしての新世代アクティブテレビゲームの利用 (Active Video Games as an exercise re-adaptation tool for obese people)
Recipient: myself
Amount: 8,688,000 JPY
Period of research: 2013/09～2015/08 (Awarded for 2 years, terminated on 2014/08)

[1] Name of the fund: Fonds de Recherche du Québec – Santé (Quebec Health Research Fund, Canada)
Project title: Utilisation des jeux vidéo nouvelle génération (dits de type actif) comme outil de réadaptation à l'exercice chez les enfants obèses (New generation – active - video games for exercise re-adaptation in the obese children)
Recipient: myself
Amount: 90,000 CAD
Period of research: 2012/09～2015/08 (Awarded for 2 years, terminated on 2013/08)

Scholarships (awards only)

[2] Name of the fund: The European Development Fund Doctoral Scholarship (European Union)
Project title: "l'étude des risques cardiovasculaires et vaso-occlusifs chez les porteurs du trait drépanocytaire après une activité physique" (post-exercise cardiovascular and vaso-occlusive risks in sickle cell trait carriers)
Amount: 48,285€
Period of research: 2008/07～2011/06 (Awarded for 3 years, terminated on 2009/06)

[1] Name of the fund: Centre Régional des Oeuvres Universitaires et Scolaires (France) – Master's Degree Scholarship
Project title: N/A
Amount: 5,000€
Period: 2004/09～2005/08

Lectures and supervision of research students

- Lectures

Period	Course, theme, class format, etc.
2021- ongoing	Course: Experiments in human and environmental sciences (Ochanomizu University, graduate students) Format: practical exercises
2021 – ongoing	Course: Experiments in human and environmental sciences (Ochanomizu University, graduate students) Format: lectures and seminars
2021 – ongoing	Course: Experiments in human and environmental sciences (Ochanomizu University, 3rd year undergraduate students) Format: practical exercises Theme: measurement of physical activity, data collection and treatment
2021 – ongoing	Course: Design and manufacturing practice (Ochanomizu University, 2nd year undergraduate students) Format: practical exercises (DIY) Theme: robot, sensors
2021 – ongoing	Course: Electronics (Ochanomizu University, 2nd and 3rd year undergraduate students) Format: lectures, practical exercises (DIY)
2021 – ongoing	Course: Measurement of physical activity laboratory (Ochanomizu University, 4th year undergraduate students, graduate students) Format: research seminars
2016 – ongoing	Course: Instrumentation (Ochanomizu University, 2nd and 3rd year undergraduate students) Format: lectures, practical exercises (DIY) Theme: physiological measurement methods, sensors
2016 – ongoing	Course: Human engineering (Ochanomizu University, 2nd and 3rd year undergraduate students) Format: lectures, practical exercises (DIY) Theme: physical behavior monitoring, sensors
2014 – 2020	Course: Human Engineering Laboratory (Ochanomizu University, 4th year undergraduate students, graduate students) Format: research seminars Head of the laboratory: Ohta Yuji

2014 – 2020	Course: Essential Engineering 1 & 2 (Ochanomizu University, graduate students) Format: lectures, practical exercises (DIY) Theme: physical behavior monitoring, technology, sensors, etc.
2014 – 2020	Course: Project Based Team Study (Ochanomizu University, graduate students) Format: problem-based learning
2005 – 2008	Course: Exercise physiology (French West Indies and Guiana University, 1st year undergraduate students) Format: lectures, practical exercises
2006 – 2007	Course: Exercise physiology applied to fitness training (French West Indies and Guiana University, 3rd year undergraduate students) Format: lectures, practical exercises, laboratory testing
2006 – 2007	Course: Anatomy (French West Indies and Guiana University, 1st year undergraduate students) Format: practical exercises
2006 – 2007	Course: Sports & Institutions (French West Indies and Guiana University, 3rd year undergraduate students) Format: lectures
2006 – 2007	Course: Academic writing & oral expression (French West Indies and Guiana University, 1st year undergraduate students) Format: practicals

- Supervisions

Period	Research titles, student names, courses, etc.
2022-2024	Title: 床振動を利用した身体活動量推定技術の標準化(Standardizing Floor Vibration-Based Technology for Estimating the Amount of Physical Activity) Student: Nakajima Yuki (master's degree course) Affiliation: Ochanomizu University, Cooperative Major in Human Centered Engineering
2022-2024	Title: 慣性センサとスマートインソールを用いた行動認識とエネルギー消費量の推定 (Activity recognition and estimation of energy expenditure using wearable inertial sensor and smart insoles: insight on kick-boarding and skateboarding locomotive activities) Student: Hatori Hitomi (master's degree course) Affiliation: Ochanomizu University, Cooperative Major in Human Centered Engineering
2023-2024	Title: 若年女性の身体活動量における Walkability の影響について (The relationship between physical activity and walkability in a population of Japanese woman students) Student: Okazaki Momoka (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2022-2023	Title: 鎌状赤血球症患者における身体活動と体の痛み発生の関係 (Relationship between physical behaviors and the occurrence of painful events in sickle cell disease patients) Student: Naka Rio (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2022-2023	Title: 鎌状赤血球症患者における身体活動と QOL の関係 (鎌状赤血球症患者における身体活動と QOL の関係) Student: Matsuno Momoka (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
202-2023	Title: 鎌状赤血球症患者における痛みの発生に対するランダム化比較試験での身体活動介入の効果(Effect of a physical activity intervention on the occurrence of painful events in sickle cell disease patients: results from a randomized controlled trial study) Student: Uno Kai (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2021 – 2022	Title: 床振動情報に基づく総移動距離を利用した身体活動量の推定 (Estimating physical activity volume completed at home using the moving distance extracted from the floor vibration signal) Student: Nakajima Yuki (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences

2021 – 2022	Title: 加速度信号と角加速度信号の機械学習処理による各種運動様式の判別 ～キックボードならびにスケートボード運動の判別可能性～ (Random forest models for the recognition of skateboarding and kick-board activities among other locomotive activities : an accelerometer and gyroscope sensor study) Student: Orihara Arisa (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2019 – 2022	Title: Development of physical activity analyzing methods using a plantar pressure measurement device - development of algorithms for human activity recognition and frailty prediction Student: Ren Dian (doctoral course) Affiliation: Ochanomizu University, Graduate School of Humanities and Sciences
2020 – 2022	Title: 床振動情報を利用した身体活動量推定モデルの開発 ～一般住宅に適用するための床振動較正法の確立～ (Development of a model for estimating physical activity using floor vibration information: establishment of a floor vibration calibration method for application to general housing) Student: Kitayama Asami (master's degree course) Affiliation: Ochanomizu University, Cooperative Major in Human Centered Engineering
2019 – 2020	Title: 床振動情報を利用した身体活動量推定方法の開発(間接熱測定実験 (Development of a new physical activity evaluation method using floor vibrations: an indirect calorimetry experiment) Student: Kitayama Asami (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2018 – 2019	Title: インソール型足圧計測デバイスを用いた身体活動量推定に関する基礎的研究 (Physical behavior classification using a plantar pressure measurement insole) Student: Hayashi Mikako (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Computer Science
2017 – 2019	Title: Development of a smart-shoes algorithm for the recognition of the daily life activities Student: Ren Dian (master's degree course) Affiliation: Ochanomizu University, Graduate School of Humanities and Sciences
2017 – 2019	Title: 住居内における床振動情報を利用した身体活動量推定方法の開発 (Development of a quantitative index for the evaluation of indoor physical activity using floor vibrations) Student: Sasaki Mio (master's degree course) Affiliation: Ochanomizu University, Cooperative Major in Human Centered Engineering
2016 – 2018	Title: 床振動を用いた住居内における身体活動モニタリングシステムの開発 (Development of an at-home physical activity estimation system based on floor vibration monitoring) Student: Akao Mana (master's degree course) Affiliation: Ochanomizu University, Cooperative Major in Human Centered Engineering

2016 – 2017	Title: 住居における床振動を用いた生活者の歩行把握システムの開発 (Development of an floor vibration monitoring system for the evaluation of people physical activity at home) Student: Sasaki Mio (undergraduate 4th year) Affiliation: Ochanomizu University, Cooperative Major in Human Centered Engineering
2016 – 2017	Title: 足圧データによるランニング中の足部回内運動評 (Evaluation of the pronation using a plantar pressure data while running) Student: Ehara Nozomi (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2015 – 2016	Title: オープンソースのプラットフォームを用いた身体活動量計の開発 (Development of an open source platform for the making physical activity monitors) Student: Akao Mana (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2015 – 2016	Title: 床振動を用いた歩数抽出方法 (Step-count extraction method using floor vibrations) Student: Kaneko Saki (undergraduate 4th year) Affiliation: Ochanomizu University, Department of Human-Environmental Sciences
2014 – 2015	Title: 居住空間における床振動を利用した歩数計測方法 (Step-count estimation based on the living room floor vibrations) Student: Nakajima Chihiro (master's degree course) Affiliation: Ochanomizu University, Graduate School of Humanities and Sciences
2006 – 2007	Title: Relations entre paramètres hémodynamiques et hémorhéologiques à l'exercice (Relationship between blood rheology parameters and blood flow under exercising conditions) Student: Danchet Christelle (master's degree course) Affiliation: French West Indies and Guiana University, Faculty of Sports Science

Academic service

- Peer-reviewing activities

Major academic journals listed only (alphabetical order)
➢ BMJ Open ➢ BMJ Open Sport & Exercise Medicine ➢ Clinical Hemorheology and Microcirculation (recurrent) ➢ Computers in Human Behavior ➢ Games for Health Journal (recurrent) ➢ Physiotherapy Theory and Practice ➢ PlosOne (recurrent) ➢ Preventive Medicine ➢ Scientific Reports ➢ Thrombosis research

- memberships to academic societies

Period	society
2018～on-going	International Society for the Measurement of Physical Behavior
2016～on-going	International Society of Behavioral Nutrition and Physical Activity
2013～on-going	Japanese Society of Physical Fitness and Sports Medicine「日本体力医学会」
2013～2016	American College of Sports Medicine
2011～2013	Société Française d'Hématologie (French Society of Haematology)
2007～2012	Association des Chercheurs en Activités Physiques et Sportives (Association of Researchers in Sports and Physical Activity, France)
2007～2012	International Society for Clinical Hemorheology

- Academic committees

Year	Committees, descriptions
2021-ongoing	Ochanomizu University, Graduate School of Humanities and Sciences (Japan) Master's Thesis Evaluation Committee

2015	Ochanomizu University, Graduate School of Humanities and Sciences (Japan) Ph.D. Thesis Evaluation committee Title: 足圧計測デバイスを用いた高齢者の歩行機能評価 (Evaluation of gait abilities in elderly people by using a novel foot pressure foot) Candidate: Nakajima Kanako (中嶋香奈子) Supervisor: Ohta Yuji（太田湯治）
2007	French West Indies and Guiana University, Faculty of Sports Science (France) Master's Thesis Evaluation Committee

- Campus committees

Year	Committees, descriptions
2022- ongoing	Ochanomizu University, International Student Selection Comittee Member
2022 - ongoing	Ochanomizu Summer program, Committee member, head of the sub-course.

- Entrance Examination

Year	Descriptions
2021- ongoing	Contribute to various tasks related to Ochanomizu University entrance examination (undergraduate and graduate levels), including writing problems, oral interview, candidate evaluation, etc.

- Seminar, meeting, events…

Year	Description of the event and roles
2018	Type of Event: faculty meetings (weekly) Event name: Leading Graduate School Study Commons Weekly Meetings Location: Ochanomizu campus Role: managing the agenda, chairing, writing reports
2016	Type of Event: faculty meetings (weekly) Event name: Leading Graduate School Study Commons Weekly Meetings Location: Ochanomizu campus Role: managing the agenda, chairing, writing reports
2015	Type of event: workshop Event name: Waseda University, Keio University and Ochanomizu University Leading Programs Joint meeting Location: Ochanomizu campus Role: design and chairing

2014	Type of event: workshop Event name: Ochanomizu Leading Graduate School Workshop (meeting companies) Location: Ochanomizu campus Role: design and chairing
2007	Type of event: seminar Event name: Séminaire interlabos Guadeloupe - ACTES/Inserm U763/CCD (Guadeloupe interlaboratory seminar between ACTES, Inserm UMR763, Sickle Cell Disease Caribean Center) Location: Academic Hospital of Pointe-a-Pitre, French West Indies, France Role: organising and management
2006 & 2007	Type of Event: research meetings (bi-monthly) Event name: Réunions du Laboratoire ACTES (ACTES Laboratory meeting) Location: Fouillole Campus, French West Indies, France Role: managing the agenda

- Promotion activities

Year or period	Description of the activity and roles
2015～2016	Type of event: Open Campus (annual) Event name: Ochanomizu Open Campus Content: Promoting the Department of Human and Environmental Sciences. Location: Ochanomizu campus Role: speaker
2014～2019	Type of activity: talk (bi-annual) Event name: Lunch Promotion events Content: Internal promotion for recruiting graduate students at the Ochanomizu University Leading Graduate School Location: Ochanomizu campus Role: speaker
2016	Type of activity: promotion trip Event name: China-Japan Academic Forum, International Education Exhibition Fair, university visits Content: promoting Ochanomizu University and the Leading Graduate School Program to Chinese students and faculties Locations: Chinese Academy of Sciences, National Agricultural Exhibition Center, Qufu Normal University, Shandong University Role: exhibitor

2015～2016	Type of event: Open Campus (annual) Event name: Ochanomizu Open Campus Content: Promoting the activity of the human engineering laboratory to prospective students Location: Ochanomizu campus Role: speaker

- Services to the community and outreach

Year or period	Description of the activity and roles
2021	Activity: Lecture for high school students Event name: 第一回グローバル講義会 (global lectures, first edition) Lecture Title: 幼稚園・保育園から大学まで：フランスとケベックの教育制度の概要 (From preschool to university: overview of the French and Quebec education systems) Locations: Ochanomizu University Role: speaker
2021	Activity: Lecture at the affiliated high school Event name: 新教養基礎 (Basics in newly established liberal art subjects) Lecture Title: 新しセンシング技術は活動的なライフスタイル促進に役立つか (Can sensing technology help people to adopt healthy lifestyles?) Locations: Ochanomizu University Role: speaker
2013～2014	Type of activity: Open House (annual) Event name: National Institute of Health and Nutrition Open House Content: Evaluation of visitor physical fitness. Location: National Institute of Health and Nutrition Open House, Shinjuku Role: instructor
2014	Activity: Lecture in English to Japanese high school students Event name: 日本学術振興会 サイエンス・ダイアログ事業 (Science Dialogue Program, Japan Society for the Promotion of Science) Lecture Title: 不活動の減少および身体活動の増加のためのアクティブビデオゲームの活用 (Using Active Video Game to reduce sedentary screen time and increase physical activity) Locations: 福島県立福島高等学校 (Fukushima Prefectural High School) Role: speaker

2013	Activity: Lecture in English to Japanese high school students Event name: 日本学術振興会 サイエンス・ダイアログ事業 (Science Dialogue Program, Japan Society for the Promotion of Science) Lecture Title: Using active video game to reduce sedentary screen time and increase physical activity Locations: 山梨県立都留高等学校 (Yamanashi Prefectural Tsuru high school) Role: speaker
2005～2007	Type of event: gene screening (annual) Event name: dépistages du trait drépanocytaire (Sickle cell trait screening test campaign) Content: Screening the students and staffs of the French West Indies and Guiana University for the presence of the sickle cell trait Location: Fouillole campus, French West Indies, France Role: management, coordination with the Sickle Cell Disease Caribean Center