

Sanpei Kageyama

(20 March 1945 – 12 September 2022)

It is with great sorrow that we mourn the passing of Professor Sanpei Kageyama, who was one of the world's leading researchers in design theory, on September 12, 2022.



Professor Kageyama was a highly regarded researcher in design theory. His research interest included statistical analysis and constructions for experimental designs and the existence of various types of combinatorial designs. During his research career, Professor Kageyama published more than 340 scholarly articles in scientific journals and co-authored two books with Tadeusz Caliński on a randomization approach to block designs in Springer Lecture Notes in Statistics series, a book with Masanori Sawa and Masatake Hirao on Euclidean design theory

in SpringerBriefs in Statistics, and two other academic books. Also, he edited three special volumes in Discrete Mathematics and Journal of Statistical Planning and Inference. With his deep knowledge and insight, Professor Kageyama had great influence on researchers in design theory. He had about 100 research collaborators and gave many invited talks in international conferences. Due to his outstanding and influential contribution to design theory, Professor Kageyama received many academic honors. He was elected as a Founding Fellow of the Institute of Combinatorics and its Applications, a Foreign Fellow of the National Academy of Sciences, and a council member of the Mathematical Society of Japan, the Japanese Statistical Society, and the Japanese Society of Applied Statistics. Professor Kageyama has served as an editorial board member of several scientific journals such as the Hiroshima Journal of Mathematics Education, Journal of Distribution Theory, Journal of the Japanese Statistical Society, Journal of Statistical Planning and Inference, Journal of Statistical Theory and Practice, Sankhya, and Utilitas Mathematica.

Professor Kageyama earned his bachelor's degree at Shimane University in 1968, his master's degree at Hiroshima University in 1970, and his Ph.D. at Hiroshima University in 1974, all in Science. Professor Kageyama worked at Hiroshima University for 33 years after being a Research Assistant at

Hiroshima University and Osaka University during 1971–1975. He joined the math education faculty at Hiroshima University as an Assistant Professor in 1975. He became an Associate Professor in 1976 and a Professor in 1992. After his retirement from Hiroshima University in 2008, Professor Kageyama worked at Hiroshima Institute of Technology as a Professor until 2015. He was a Visiting Professor of Statistics and Discrete Mathematics at the Research Center for Mathematics and Science Education, Tokyo University of Science, since 2015. He was also an Emeritus Professor of Hiroshima University.

Professor Kageyama was also a wonderful teacher, who was dedicated to mentoring and educating students during his tenure. He trained good junior high school/high school math teachers as a knowledgeable professor and a respected teacher. Professor Kageyama made a significant contribution in (math) education in Japan. He served as a Principal of Hiroshima University High School in 2003–2007 and a Principal of Hiroshima University Elementary School in 2005–2007. He also served as an editor of math textbooks for elementary school/junior high school students in Japan since 1987.

Professor Kageyama was a great researcher and inspiring teacher respected by his colleagues and students. On 12 September 2022, at age 77, he passed away and his death is being mourned by many people. Our condolences go to his whole family.

—Ryoh Fuji-Hara, Masakazu Jimbo, Shinji Kuriki, Ying Miao and Koji Momihara.