

Jacob McCrone

Elmer K. Hayashi

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Elmer K. Hayashi was born in Sacramento, California in 1938. He began his mathematical career at the University of California at Davis, where he received his Bachelor of Arts degree in Mathematics. He later received both his Master's in Mathematics and Ph.D. in Analytic Number Theory from San Diego State University and the University of Illinois at Urbana in 1973.

He studied at UI under advisor Paul Trevier Bateman, Hayashi wrote his dissertation on *Omega Theorems for the Iterated Additive Convolution of a Nonnegative Arithmetic Function* under advisor Paul Trevier Bateman. He has been a retired professor since around 2003, but during his tenure he used to lecture and conduct research at Wake Forest University. He mainly taught Calculus with Analytic Geometry I and II, Number Theory, Complex and Vector Analysis. The papers that he wrote during his career span from the complexities of binary searches, to indeterminates of exponential type, elements of number theory. He is a member of many professional organizations and clubs relating to computing and the field of Mathematics. He was a fan of the Association for Computing Machinery and the IEEE Computer Society. Now retired, Hayashi spends his time with his family, including his grandson and granddaughter. He passes his days playing tennis and recording basketball and football statistics for personal use.

Hayashi's work was largely not influenced by Ramanujan as the two existed in slightly separate spheres within the field of mathematics. Hayashi did however, author a paper with Fred Howard about *Congruences for Numbers of Ramanujan*. The paper was published in *Fibonacci Quarterly*. So although Hayashi was not directly influenced by Ramanujan, he still encountered his work as many other mathematicians have as well. Ramanujan's contributions to the field of mathematics were immeasurable, and his theories and work on complex analysis and number theory certainly permeated its way into Hayashi's world at some point.