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History of Psychology

Professor Doron Zeilberger

Essay of Chris K. Caldwell

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Ramanujan called a man who knew Infinity. Even though he aged just 32 when he died. He is still one of the most extraordinary events in mathematical history. Srinivasa Ramanujan is a famous mathematician in the 19th century. He was born in India in 1887 and finished self-taught mathematics. Ramanujan developed highly original and insightful theorems in number theory infinite series and continued fraction. With working with G.W. Hardy, He came up to Ramanujan prime and Ramanujan theta function. In 1987, the mathematician held a conference--- Ramanujan Centennial Conference to memorize him. As a participant of this conference, Chris K.Caldwell is also a mathematician affected by Ramanujan's theory. He has been taught Mathematics and Introductory Statistics at the University of Tennessee at Martin for over thirty-four years now. He got his bachelor's degree from California State University in 1979. Then He completed his Ph.D. in algebraic number theory at the University of California at Berkeley. The topic of his Ph.D. program, algebraic number theory, which is also the main area Ramanujan working on. Like most of the participants, Caldwell's mathematics Subject Classification is also Number theory.

Chris K Caldwell published a textbook talk about prime called prime curios to let the public learn mathematics in a fun way. Overall, he published 10 articles in total. All the topics included History and biography and number theory. In his article “Unique primes and the factorization of cyclotomic polynomials minus one. The theorem of the n th cyclotomic polynomial also included the theory of Ramanujan primes. Ramanujan’s number theory serves as a foundation in Caldwell’s work. With further educators' analysis of Ramanujan's work, the public will be familiar with the great mathematician's contribution. Although Ramanujan died when he is only 30, his writing has been studied extensively by mathematicians, It led to the creation of new fields of study.