

Charles Kim, Ph.D., is a professor of electrical engineering and computer science in the College of Engineering and Architecture at Howard University. Kim began his career at Howard in 1999 and served as an assistant and associate professor before his appointment to professor in August 2013.

Kim has experience in applying information entropy and Bayesian inference as an intelligent and machine learning system to discrete time-series data for diagnostic detection, classification, and pattern discovery. He has applied machine reasoning to electronic component assessment for radiation impact and sensitivity. He recently extended this application to social science and human-terrain related problems for decision-making and behavior classification. Kim's present research is focused on prediction and classification, applying entropy minimum principle, and on the location determination of incipient self-clearing cable faults in power distribution systems using least-squares error approaches. Dr. Kim's work is widely published in peer-reviewed journals.

In 2019, Kim was recognized for his contributions to the VIP consortium, a global alliance of universities advancing Vertically Integrated Projects, (VIP), where undergraduate and graduate students participate in ambitious, long-term projects led by faculty that result in scalable models for high-impact, project-based learning.

Kim earned his doctorate in electrical engineering at Texas A&M University where he also did his post-doctoral work.