Abdou Youssef has 30 years of research and teaching experience in the field of computer science. He is currently a tenured Professor and former Chairman of the Department of Computer Science at The George Washington University, Washington, D.C, which he joined as Assistant Professor in Fall of 1987.

Dr. Youssef received his M.A. and Ph.D degrees in Computer Science from Princeton University, Princeton, NJ, in 1985 and 1988, respectively, and his BS in Mathematics from the Lebanese University in 1981. He also completed the requirements for a BS degree in Statistics in 1992 at the Lebanese University.

His current research interests are applied data science, math search and math language processing, audio-visual data processing, pattern recognition, theory and algorithms. He has published over 125 papers in those areas, and co-edited the book Interconnection Networks for High-Performance Parallel Computers, published by IEEE Computer Society Press in 1994. His research has been funded by NSF, NSA, and NIST.

While applying rigorous methods, Dr. Youssef has developed applied techniques and systems that have been put to critical use. In the late 1990's, he and his students developed for the US Government a system that recovers from fax errors without retransmission. More recently, he has created for the US National Institute of Standards and Technology (NIST) a math-search engine as part of the Digital Library of Mathematical Functions (DLMF). This search engine was first of its kind and is deployed online at http://dlmf.nist.gov/. For that work, he received a Gold Medal from the US Department of Commerce in December 2011, and co-received the 2011 Government Computer News Award.

While chairman of the Department of Computer Science for six years, Prof. Youssef expanded the department and its research productivity. He doubled the size of the graduate programs in his department, fostered a 50% increase in the size of the undergraduate programs, created a new thriving master's degree program in Cybersecurity, oversaw a 50% increase of externally funded research activities in the department, and hired 9 new faculty members, which constituted half of the department faculty at the time.

Currently, he is developing novel techniques for part-of-math tagging, math semantics extraction and question answering, and big-data applications such as fraud detection in the retail business, next-generation recommendation systems, and more.

A six-time recipient of the Teacher of the Year Award from his Department and School, Dr. Youssef has been invited to give research presentations throughout the world, including Germany, United Kingdom, Canada, China, and Brazil.