

Alan V. Sahakian is Professor of ECE and (by courtesy) BME at Northwestern University. He recently completed an eight-year term as the Chair of the EECS Department and is now serving as Senior Advisor to the Dean of the Robert R. McCormick School of Engineering and Applied Science. While EECS Chair he hired over 20 new faculty and the US News rankings of the department's three disciplines moved from 32 to 23 (EE), 28 to 18 (CE) and 35 to 30 (CS). Sahakian is also a member of the academic affiliate staff at NorthShore University HealthSystem (Evanston Hospital) in Cardiology.

Sahakian received the Ph.D. in ECE with a minor in CS from the University of Wisconsin –Madison working in the Willis Tompkins and John Webster group. His MS is in EE from UW-Madison and his BS is in Applied Science and Physics from UW-Parkside. During his graduate studies he was a senior electrical engineer and microprocessor specialist at Medtronic, Inc. and also worked for Applied Electronics Consultants, Inc. designing and coding algorithms for patient monitoring and operating-system software. He also served as a resident visiting scholar in the Center for Excellence in Reliability and Maintainability at the Air Force Institute of Technology studying reliability science and fault-tolerant computing.

Sahakian is a Fellow of both IEEE and AIMBE “*for contributions to electrophysiology of atrial cardiac arrhythmias*” and has served both as a Distinguished Lecturer and as the Vice President for Publications and Technical Activities for the IEEE Engineering in Medicine and Biology Society. He is also a Fellow of the Asia-Pacific Artificial Intelligence Association. He is currently an Associate Editor for ***IEEE Transactions on Biomedical Engineering*** and for Nature Publishing ***Scientific Reports*** (for the fields of Electronics, Photonics and Device Physics).

While at Northwestern he received several teaching awards and chairs including the Bette and Neison Harris Chair, the Charles Deering McCormick Chair, the McCormick Teacher of the Year award, the McCormick Advisor of the year award and the Northwestern Alumni Association Teaching award. In addition to cardiac electrophysiology his lab studies electromagnetic and photonic methods of medical imaging and diagnostics, irreversible electroporation and RF ablation for cancerous tumors and other medical applications, and spintronic and other beyond-CMOS logic computational circuits and architectures. His recent research has been funded by the NIH, NSF, Department of Defense Breast Cancer Research Program, Defense Intelligence Agency (through DOE), Intel and Medtronic.