OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

BIOGRAPHICAL SKETCH

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NAME: Schoenfeld, Elinor Randi

eRA COMMONS USER NAME (credential, e.g., agency login): eschoen

POSITION TITLE: Research Professor of Family Population & Preventive Medicine, Associate Vice Chair of Research

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	Completion Date MM/YYYY	FIELD OF STUDY
Stony Brook University, Stony Brook, NY, NY	BS	05/1977	Biology
University at Buffalo, Buffalo, NY	MS	09/1980	Natural Sciences/ Epidemiology
University at Buffalo, Roswell Park Division, Buffalo, NY	PHD	12/1987	Experimental Pathology/Epidemiology
New York University, New York, NY	Fellow	05/1978	Pre-doctoral Fellow
University of Minnesota, Minneapolis, MN	Other training	08/1980	Epidemiology Summer Program fellow
Columbia University, New York, NY	NIH training grant	12/1982	NCI Training Grant Post-graduate fellow

A. Personal Statement

I am Research Professor and Associate Vice Chair of Research in the Department of Family, Population and Preventive Medicine in the Renaissance School of Medicine (RSOM). As an epidemiologist with expertise in both community engaged research and technology development I combine these areas of training in my research, teaching and service. I have over 30 years of experience in conducting NIH, NSF, HRSA and private foundation funded large-scale epidemiologic studies, community engaged research, clinical trials, and hardware/software design as PI/co-PI/co-I/Data Manager/Data Analyst. I currently serve as co-PI on three multidisciplinary NSF funded studies developing and testing contactless room-based sensors and AI enabled algorithms to collect and monitor physiologic markers of health (e.g., respiration and heart rates) to support aging in place, population health and the early detection of disease (e.g., COVID). As an educator, I have trained graduate students, residents, fellows, and faculty to conduct clinical research and engage in best practices (good clinical practice - GCP) for study and data management through creation and directing graduate level courses and guest lectures in our Schools of Medicine and Nursing. In addition, I currently serve as a research facilitator within Stony Brook University's (SBU) Research Computing, Informatics, and Innovation Group under the leadership of David Cyrille Chief Research Information Officer and Assistant Vice President. In this role, I bring together researchers from diverse backgrounds to collaborate on new research projects and help identify and connect researchers with IT resource needs. During my career I have mentored 50 high school and undergraduate students, 5 graduate students, and 19 junior faculty in the conduct of research, career selection and development. I continue to mentor a number of students and faculty who are including research in their career paths. Many have gone on to successful careers in medicine and public health, incorporating research into their positions. As a member of the Resources and Service Module I bring to LINCATS my expertise in epidemiology, multidisciplinary research engaging multiple community stakeholders in the process, and my expertise in teaching clinical research methods, data management skills, and good clinical practice (GCP) for data management. These elements are vital to the success of clinical and translational science advancements at SBU.

Ongoing and recently completed projects that highlight my interdisciplinary collaborations include:

NSF Award # 2119299 CCF Division of Computing and Communication Foundations
Ye (lead PI) and Schoenfeld (co-PI)
10/1/2021 – 9/30/2026
Collaborative Research: PPoSS: Large: Principles and Infrastructure of Extreme Scale Edge Learning for Computational Screening and Surveillance for Health Care

NSF Award # 2028952 - CCF Division of Computing and Communication Foundations -
Ye (lead PI) and Schoenfeld (co-PI)
10/1/2020 – 9/30/2022
Collaborative Research: PPoSS: Planning: Principles for Edge Sensing and Computing for Personalized, Precision Healthcare at National Scale

NSF Award # 1951880 - CNS Division of Computer and Network Systems
Ye (lead PI), Schoenfeld (co-PI), Zadok (co-PI), Bruckenthal (co-PI), Horwitz (co-PI)
10/1/2020 – 9/30/2024
SCC-IRG Track 1: Smart Aging: Connecting Communities Using Low-Cost and Secure Sensing Technologies

Citations:

a) **Schoenfeld ER,** Francis LE. Word on the street: Engaging local leaders in a dialogue about prostate cancer among African Americans. Am J Mens Health. 2016 Sep;10(5):377-88. Doi: 10.1177/1557988314566503. Epub 2015 Jan 15.
b) Engebretson SP, Hyman L, Michalowicz BS, **Schoenfeld ER**, Gelato MC, Hou W, Seaquist ER, Reddy M. Lewis CE, Oates T, Tripathy D, Katancik J, Orlander PR, Paquette D, Hanson NQ, Tsai MY for the DPTT Group. The Effect of Non-surgical Periodontal Therapy on Hemoglobin A1c Levels in Persons with Type 2 Diabetes and Chronic Periodontitis: A Randomized Controlled Trial. JAMA 2013; 310(23):2523-32. Doi:10.1001/jama.2013.282431. PubMed PMID: 24346989; PubMed Central PMCID: PMC4089989
c) Chen X, Hou W, Rashidian S, Wang Y, Zhao X, Leibowitz G, Rosenthal RN, Saltz M, Saltz JH, **Schoenfeld ER**, Wang, F. A large-scale retrospective study of opioid poisoning in New York State with implications for targeted interventions. Scientific reports, 2021:11(1), 5152.
d) Xie Z, Zhou B, Cheng X, **Schoenfeld E**, Ye F. VitalHub: Robust, Non-Touch Multi-User Vital Signs Monitoring using Depth Camera-Aided UWB. In IEEE ICHI 2021 International Conference on Healthcare Informatics. 2021. Best paper award at the IEEE ICHI 2021.

B. Positions, Scientific Appointments, and Honors

Positions and Scientific Appointments

2020 - present	Associate Vice Chair of Research, Department of Family, Population & Preventive Medicine, Renaissance School of Medicine, Stony Brook, NY
2017 - present	Deputy Division Head, Stony Brook University, School of Medicine, Division of Epidemiology and Biostatistics, Department of Family Population and Preventive Medicine, Stony Brook, NY
2017 - 2018	PCORI Advisory Panel on Healthcare Delivery and Disparities
2016 - 2019	Research Associate Professor (2016-17), Research Professor (2017-2019), Stony Brook University, School of Medicine and School of Engineering and Applied Sciences, Department of Biomedical Informatics, Stony Brook, NY
2015 – 2017	PCORI Advisory Panel on Addressing Health Disparities
2014 - present	Member, Health Information Management Systems Society (HIMSS)
2014 – 2018	Associate Director, Stony Brook University Graduate School, Master's Program in Clinical Research, Stony Brook, NY
2013 - present	Affiliate Faculty, Stony Brook University, School of Medicine Department of Ophthalmology (1998-), Program in Public Health (2013-), School of Nursing (2015-), Stony Brook, NY

2013 - present	Research Associate Professor (2013-17), Research Professor (2017- present), Stony Brook University School of Medicine, Department of Family, Population & Preventive Medicine, Stony Brook, NY
2012 – 2017	Meeting Abstract Reviewer, Society for Public Health Education (2012-16); American Public Health Association (2016); American Medical Informatics Association (2017)
2010 – 2014	Member, American Medical Informatics Association (AMIA)
2009 – 2013	Member, Society for Clinical Data Management
1995 - present	Ad Hoc Reviewer, AHRQ (2001); NIH/NEI Chair Review Committee (2004); NEI (2002, 2005); CDC (2008); US Army Intramural War Supplement Program (2008); NCI (2016,2019- 2021); NCI/SBIR (2018,2021); NIA (1995, 2019); AHRQ, CDC, USAMRMC, US Army Intramural War Supplement Program
1994 - present	Member, Society for Clinical Trials
1989 – 2013	Research Instructor (1989-90), Research Assistant Professor (1990-98), Associate Professor of Research (1998-2013), Stony Brook University School of Medicine, Department of Preventive Medicine, Stony Brook, NY
1988 – 2013	Research Scientist (1988-93), Senior Research Scientist (1993-2013), Stony Brook University School of Medicine, Department of Preventive Medicine, Stony Brook, NY
1985 – 1988	Cancer Research Scientist I (1985-87), Cancer Research Scientist II (1987-88), Roswell Park Cancer Institute, Department of Cancer Control and Epidemiology, Buffalo, NY
1984 – 1985	Research Affiliate in Cancer Epidemiology, Roswell Park Cancer Institute, Department of Cancer Control and Epidemiology, Buffalo, NY
1982 – 1983	Data Manager Community Hospital Oncology Program, Hackensack Medical Center, Department of Radiation Oncology, Hackensack, NY
1980 - 1982	Clinical Associate in Cancer Epidemiology, Columbia University School of Public Health, Department of Epidemiology, New York, NY
1979 – present	Member, Society for Epidemiologic Research
1979 – 2006, 2016	Member, American Public Health Association

Honors

2008, 2011, 2016	Excellence in Community Service, Stony Brook University
2004	Stony Brook University Distinguished Alumni Award for University Service, Stony Brook NY
1998	Myrtle Wreath Award, Suffolk NY Region of Hadassah

C. Contributions to Science

1. My early publications reflect a time of exploration and innovation. The field of outcomes research was evolving, and epidemiologists were exploring new potential cancer risk factors. While working on my PhD dissertation, I had the opportunity to work full time as a project coordinator and data manager, honing my skills in community engagement, cancer control, and study management. This research carried forward to work conducted at SBU where I have had leadership roles in seminal studies of cancer, diabetes, periodontitis, and vision. The reference linking cancer with milk consumption was one of the first to explore this relationship and is still requested today. The most cited publication is the association between diabetes and cancer which was my master's dissertation research. The publications listed below helped formulate the directions for my research to date.
   a. O'Mara B, Byers T, **Schoenfeld, ER**: Diabetes Mellitus as a risk factor for cancer. J Chron Dis 1985; 38(5):435-41. PMID: 3998058
   b. Mettlin CJ, **Schoenfeld ER**, Natarajan N, Suh O: Interhospital differences in cancer survival. J Chron Dis 1987; 40(2):157-64. PMID: 3818869
   c. Mettlin C, **Schoenfeld ER**, Natarajan N: Patterns of milk consumption and risk of cancer. Nutr Cancer 1990; 13:89-99. PMID: 2300498

d. **Schoenfeld ER**, Greene J, Wu SY, Leske MC. Patterns of adherence to diabetes vision care guidelines- the Diabetic Retinopathy Awareness Program (DRAP). Ophthalmology 2001; 108:563-71. PubMed PMID: 11237912

2. From 2014-18 I served as Associate Director for the SBU Graduate School, Master's Program in Clinical Research where I met and started mentoring a number of students/junior faculty who I continue to mentor and collaborate with today. In addition, I continue to mentor junior faculty here at the RSOM who continue to advance in their careers as clinicians and researchers. These collaborations have expanded my areas of interest and expertise to include the study of obesity in children, treatment and outcomes from cardiac arrest, and telehealth. The cardiac arrest research led to the discovery of nitric oxide as an intercardiac arrest treatment to improve in-hospital cardiac arrest survival..
   a. Parnia S, Yang J, Nguyen R, Ahn A, Zhu J, Inigo-Santiago L, Nasir A, Golder K, Ravishankar S, Bartlett P, Xu J, Pogson D, Cooke S, Walker C, Spearpoint K, Kitson D, Melody T, Chilwan M, **Schoenfeld E,** Richman P, Mills B, Wichtendahl N, Nolan J, Singer A, Brett S, Perkins GD, Deakin CD. Cerebral Oximetry During Cardiac Arrest: A Multicenter Study of Neurologic Outcomes and Survival. Crit Care Med. 2016 Apr 11. [Epub ahead of print] PubMed PMID: 27071068.
   b. Bianchi-Hayes J, Cataldo R, **Schoenfeld E**, Hou W, Pati S. Caregivers' perceptions of the relationship between weight, health status, and asthma in their children. Journal of Child Health Care 2020: Dec 2020. 1367493520985719.
   c. Noel K, Yagudayev S, Messina C, **Schoenfeld E**, Hou W, Kelly G. Tele-Transitions of Care: An Approach to Reduce 30-Day Readmission Using Tele-Health Technology; a Randomized Controlled Trial Study Protocol. J Fam Med Dis Prev 2018: 4(1):070. Doi: 10.23937/2469-5793/1510070
   d. Patel JK, **Schoenfeld E**, Hou W, Singer A, Rakowski E, Ahmad S, Patel R, Parikh PB, Smaldone G. Inhaled Nitric Oxide in Adults with In-Hospital Cardiac Arrest: A Feasibility Study. Nitric Oxide. 2021 Jul 3:S1089-8603(21)00060-4. doi: 10.1016/j.niox.2021.07.001. Epub ahead of print. PMID: 34229057

3. My current efforts are focused on addressing the challenges of aging in place by understanding older adults, caregiver, and provider needs, and developing technologies to foster smart aging. In collaboration with faculty from our College of Engineering and Applied Sciences, Schools of Nursing and Social Welfare we are developing and testing contactless, remote sensors to measure activity, heart and respiratory rates. We presented our work virtually at HIMSS20 this past year. Our first joint publication is listed with my personal statement, our newest collaboration is listed here. As part of my interdisciplinary research activities, I have collaborated with clinicians to conduct a telemedicine clinical trial to address 30-day readmissions. This trial set the foundation for telehealth services at our institution. In collaboration with faculty from the RSOM Department of Biomedical Informatics and the School of Social Welfare we used big data analytics to understand the exploding opioid epidemic in our region.
   a. **Schoenfeld ER**, Leibowitz GS, Wang Y, Chen X, Hou W, Rashidian S, Saltz MM, Saltz JH, Wang F. Geographic, temporal and sociodemographic differences in opioid poisoning. Am J Prev Med 2019. 57(2), pp.153-164. PMID: 31227281
   b. Noel K, Messina C, Hou W, **Schoenfeld E**, Kelly G. Tele-transitions of care (TTOC): a 12-month, randomized controlled trial evaluating the use of Telehealth to achieve triple aim objectives. BMC Fam Pract. 2020;21(1):27. PMID: 32033535
   c. Corman BHP, Rajupet S, Ye F, **Schoenfeld ER**. The Role of Unobtrusive Home-Based Continuous Sensing in the Management of Post acute Sequelae of SARS CoV-2. J Med Internet Res. 2022 Jan 26;24(1):e32713. doi: 10.2196/32713. PMID: 34932496.

Complete List of Published Work in MyBibliography:
http://www.ncbi.nlm.nih.gov/sites/myncbi/elinor.schoenfeld.2/bibliograpahy/47271844/public/?sort=date&direction=ascending