Steven M Scherr

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Profile

After entering the LEAP program at Boston University and transitioning from biologist to mechanical engineer, I look forward to applying my knowledge of these fields to develop innovative products and technologies. My interests lie in microfluidics, medical devices, biosensors, global health, and product design.

Education

Boston University-College of Engineering Jun 2011 – Current
MS in Mechanical Enginnering – Sept 2014
PhD in Mechanical Engineering – Fall 2016 (Expected)
GPA: 3.90/4.00
LEAP Program
Academic Scholarship

SUNY New Paltz Sep 2003 – May 2007
BS in Biology – Summa Cum Laude
GPA: 3.84/4.00
Academic Scholarship
Dean's List Eight Semesters

Experience

Graduate Research Assistant
Boston University Feb 2011 – Current
Optical Characterization and Nanophotonics Lab

- Design of a disposable cartridge based microfluidic platform for real-time visualization of individual viruses and nanoparticles in complex media. Developed rapid and sensitive multiplex viral hemorrhagic fever test for point-of-care application.

Research Scientist
NexGen Arrays May 2015 – Sep 2015

- Responsibilities included new assay development, translating test from bench-top to cartridge, and integration into automated optical instrument.

R&D Engineering Intern
Seventh Sense Biosystems Jun 2012 – Aug 2012

- Medical device optimization, thermoforming, packaging, failure

analyses, injection molding, DFM, DFA.

Veterinary Assistant & Manager June 2003 – Aug 2008
Hopewell Animal Hospital and Hopewell Bird Hospital

- Responsible for finances, health and safety, hiring, and scheduling in transition to sale. As assistant, responsible for phlebotomy, surgical assistance, animal restraint and care, and lab testing.

Skills

Microfluidic Design, Fluid and Transport modelling, CAD Design, Solidworks, Matlab, Microsoft Office, DFM, DFA, Packaging design, Injection Molding, Thermoforming, Failure analysis, Stability testing, Diagnostic development, Clean Room Protocol, Microfabrication, Aseptic Technique

Honors & Awards

Outstanding Student Award – SUNY New Paltz May 2007
- Awarded to the student graduating at the top of each department

Award for Applied Sciences Dec 2014
- Boston University Scholars Day

Materials Research Society Poster Award Winner Dec 2014
- MRS fall meeting and exhibit

First Place for Research on Disparities in Health Care Oct 2014
- Boston University Clinical and Translational Science Institute

College of Engineering Deans Award Apr 2015
- Boston University Graduate Research Symposium

First Place at Fifth Annual Translational Research Symposium Apr 2016
- Boston University Clinical and Translational Science Institute

BUnano Award Apr 2016
- Boston University Graduate Research Symposium

Publications

S. M. Scherr, G. G. Daaboul, J. Trueb, D. Sevenler, H. Fawcett, J. H. Connor, and M. S. Ünlu, "Real-Time Capture and Visualization of Individual Viruses in Com- plex Media," *ACS Nano*, vol. in print, 2016.

E. Seymour, G. G. Daaboul, X. Zhang, S. M. Scherr, N. L. Ünlu, J. H. Connor, and M. S. Ünlu, "DNA-Directed Antibody Immobilization for Enhanced Detection of Single Viral Pathogens," *Anal. Chem.*, vol. 87, no. 20, pp. 10505–10512, 2015.