Steven M. Scherr

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Profile

I am interested in applying my experience in mechanical engineering and biology to develop new medical devices and innovative products for the healthcare and life sciences industries.

Education

Boston University-College of Engineering Jun 2011 – Current
PhD in Mechanical Engineering – Fall 2016 (Expected)
GPA: 3.91/4.00
Academic Scholarship

SUNY New Paltz Sep 2003 – May 2007
Bachelor of Science in Biology
Emphasis on environmental & organism biology
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 use.

Research Scientist
nanoView Diagnostics May 2015 – Sep 2015

- Developed microfluidic cartridge for rapid sample to answer medical diagnostic. 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.

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
- Poster award winner Boston University Scholars Day

Materials Research Society Poster Award Dec 2014
- Poster award winner at MRS fall meeting and exhibit

First Place Poster for Research on Disparities in Health Care Oct 2014
- Post award winner at CTSI Translational Science Symposium

College of Engineering Deans Award Dec 2014
- Poster award winner at 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.