

Amy M Silverstein

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EDUCATION

Columbia University, Fu Foundation School of Engineering & Applied Science, New York, NY August 2017

Doctoral Candidate in Biomedical Engineering

Master of Philosophy in Biomedical Engineering October 2015

Awards: Shelly Liu Ping Fellowship (2016), 1st Place Society for Biomaterials Education Challenge (2015), NIH T32 Fellowship in Multidisciplinary Engineering Training (2013-2015), NSF Graduate Research Fellowship Honorable Mention (2013)

University of Pennsylvania, School of Engineering and Applied Science (SEAS), Philadelphia, PA

Master of Science in Engineering

Major: Bioengineering

May 2012

Bachelor of Science in Engineering, Cum Laude **Major:** Bioengineering **Minor:** History

May 2011

Awards: 2nd Place American Society of Mechanical Engineers Summer Bioengineering Conference Masters Competition (2012), NSF Graduate Research Fellowship Honorable Mention (2012), Penn Graduate and Professional Student Association Travel Award (2012), Massachusetts Life Science Center Internship Challenge (2011), Bioengineering Senior Design Award (2011), Dean's List (2010-11), Penn Institute for Regenerative Medicine Summer Research Internship (2009, 2010)

RESEARCH & WORK EXPERIENCE

Columbia University, Department of Biomedical Engineering, New York, NY September 2012-Present

Graduate Research Assistant, Cellular Engineering Laboratory

- Investigate novel approaches for *in vitro* disease models of osteoarthritis
- Assist in generation, preparation and peer review of journal articles and research grant proposals
- Manage collaborations in biology, mechanical engineering, veterinary medicine and orthopedic surgery
- Mentor undergraduate and graduate students in scientific research, writing and presentation skills

Columbia Technology Ventures (CTV), New York, NY

April 2014-present

Senior Managing Fellow

April 2015-present

- Coordinate management of CTV's graduate student fellows program which assesses the commercial potential of 400+ technologies and launches ~100 targeted marketing campaigns per year and special projects
- Manage 35+ CTV Fellows, selection and training of fellows, quality control of special projects and market analyses and serve as a liaison between licensing officers, senior fellows and fellows
- Associate Managing Fellow (*January-April 2015*), Fellow (*August-December 2014*), Research Assistant (*April-August 2014*)
 - Assessed inventions submitted by professors for potential commercial applications, and develop competitive profiles
 - Research patent assertions, develop marketing materials, and complete market analyses
 - Assisted Senior Managing Fellow with assignment intake and timesheets

Columbia University, New York, NY

January 2014-December 2014

Teaching Assistant: Tissue Engineering II, Biomedical Engineering Laboratory I

- Organize review sessions, hold office hours, prepare and supervise labs, and grade assignments and exams

University of Pennsylvania, Department of Orthopaedic Surgery, Philadelphia, PA

May 2009-July 2012

Graduate Research Assistant, Undergraduate Research Assistant, McKay Orthopaedic Research Lab

- Researched polymer scaffolds for meniscal repair, soft tissue engineering and cell-biomaterial interactions
- Executed independent research and presented at national conferences. Awarded 2nd place in a society paper competition

Bio2 Technologies, Woburn, MA

May-August 2011

Summer Intern, Research and Development

- Designed tests for optimization and industry standard evaluation of orthopedic implant porous titanium coatings
- Synthesized mechanical and imaging data for commercialization and investor meetings

LEADERSHIP & ACTIVITIES

Columbia University Society for Biomaterials (SFB)

September 2012-Present

Vice President, Community Outreach Chair

June 2015-Present, June 2013- Present

- Established monthly science club volunteer opportunity for MS247, a local middle school, to supplement science curriculum
- Organized annual visit of ~65 8th grade students to Columbia labs to gather data for their annual science fair
- Facilitate on-campus biotechnology industry speakers and company site visits for engineering student body

SKILLS & INTERESTS

Computer: Proficient in MATLAB, R, STATISTICA, GraphPad, and Microsoft Office

Interests: Tennis, health and fitness, cooking, volunteering

****Publications, patents, presentations and research grants available upon request****