

Curriculum Vitae

Benjamin J. Adler

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Personal Information:

- Born September 11, 1982
- Performed administrative coordination, and experimental measurements as part of a multi-group clinical Bed-rest study in partnership with NASA
- Personal research interests include the transduction of mechanical information on the tissue level into molecular responses on the cellular level.

Education:

- September 2007 - Present: Doctoral student in Biomedical Engineering, State University of New York at Stony Brook
- September 2005 - June 2007: Student at Yeshiva B'nei Torah. Far Rockaway, New York.
- December 2004: Bachelors of Engineering - Biomedical Engineering magna cum laude. State University of New York - Stony Brook

Research Experience:

- August 2007 – Present: Research Assistant: Musculo-Skeletal Research Lab, Dr. Clint Rubin Primary Investigator
- December 2004 - September 2005: Research Support Specialist: Musculo-Skeletal Research Lab, Dr. Clint Rubin Primary Investigator
- June 2004 - December 2004: Undergraduate Research Assistant: Musculo-Skeletal Research Lab, Dr. Clint Rubin Primary Investigator
- January 2003 - June 2004: Undergraduate Research Assistant: Integrated Skeletal Adaptation and Genetics Lab, Dr. Stefan Judex Primary Investigator

Awards and Funding:

- September 2007: Graduate Council Research Fellowship – The Graduate School, Stony Brook University
- September 2007: Full Tuition Waiver and stipend awarded with Teaching Assistantship – Department of Biomedical Engineering
- Summer 2004: Fellowship - Interdisciplinary Biomedical Research Program (NASA)
- Spring 2004: Member Golden Key International Honor Society
- April 2004: Undergraduate Recognition Award for Excellence - Research
- April 2004: Second Place - College of Engineering and Applied Sciences Senior Design Competition
- Summer 2003: Fellowship - Interdisciplinary Biomedical Research Program (NIH-NIGMS)

Publications:

Conference Proceedings:

- 2004: **Adler, B.** Muir, J. Lee, B., Judex, S. Qin, YX. and Rubin, CT. **Development of a Mechanical Intervention to Prevent or Reverse Disuse Osteoporosis.** Biomedical Engineering Society Annual Fall Meeting
- 2005: Rubin, CT., Muir, J., Lee, B., **Adler, B.**, Qin, YX., and Judex, S. **Retention of Skeletal, Musculature and Postural Status with a Non-Invasive, Extremely Low Level Mechanical Signal: A Ground-Based Evaluation of Efficacy.** Bioastronautics Annual Meeting
- 2005: Muir, J.W., **Adler, B.**, Rubin, C.T. **Disuse disrupts postural control in subjects undergoing extended bed rest.** Biomedical Engineering Society Annual Fall Meeting
- 2005: Qin, Y-X., Xia, Y., Lin, W., **Adler, B.**, Rubin, C. **Prediction Of Bone Quality and Quantity in 90-Day Bed Rest Using Confocal Scanning Ultrasound System and DEXA Measurement.** Orthopedic Research Society Annual Meeting

Book Chapters:

- 2007: Rubin, C., **Adler, B.**, Qin, Y-X., Judex, S. **Mechanical Signals May Provide an Effective Countermeasure to Bone and Muscle Loss During Long Term Spaceflight.** Cleveland Clinic Bone Loss in Space Symposium

Affiliations:

- 2002 – 2004: Biomedical Engineering Society

References:

- Upon Request