

J. Izaak Miller

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Education

University of Tennessee, Knoxville

Ph.D. Candidate, Energy Science and Engineering

University of California, Los Angeles

B.S., Biochemistry 2011

B.S., Physiological Science 2011

Research and Employment Experience

- **Research Assistant** University of California, Los Angeles; Advisor: Robert Clubb, Ph.D.; March 2011 - June 2013.

Helped construct a strain of *Bacillus subtilis* capable of growing on untreated lignocellulosic biomass toward the goal of developing a consolidated bioprocessor.

- **Teaching Assistant** University of California, Los Angeles; September 2011 - June 2013.

Prepared and led three weekly discussion sections for Chemistry and Biochemistry 153A (Introduction to Structure, Enzymes, and Metabolism), and held office hours for students. Additionally, proctored and graded exams.

- **Undergraduate Research Assistant** University of California, Los Angeles; Advisor: Elaine Tobin, Ph.D.; January 2010 - September 2011.

Examined transcriptional and translation oscillations in circadian clock genes and proteins in *Arabidopsis thaliana*.

- **Assistant Fitness Manager** 24 Hour Fitness; September 2007 - July 2008.

Managed a team of 4-5 personal trainers to reach budget and performance quotas.

Publications

Anderson, T. D., **Miller, J. I.**, Fierobe, H.-P. & Clubb, R. T. Recombinant *Bacillus subtilis* that grows on untreated plant biomass. Appl. Environ. Microbiol. (2012). doi:10.1128/AEM.02433-12.

Awards and Honors

- Biological Sciences Scholarship, Saddleback College; 2008 & 2009.