

ELIZABETH A. ZIMMERMANN

OBJECTIVE

Ph.D. in Materials Science and Engineering, UC Berkeley.

RESEARCH EXPERIENCE

9/2006 - present Lawrence Berkeley National Lab Berkeley, CA

Graduate Research Assistant

Materials Science Division: Fracture of Biomaterials

Advisor: Professor Robert O. Ritchie

10/2003-8/2005 University of Illinois at Urbana-Champaign

Undergraduate Research Assistant

Advisor: Professor Petros Sofronis

EDUCATION

8/2006-present University of California, Berkeley Berkeley, CA

M.S. in Materials Science 12/2008

Ph.D. in Materials Science, expected in 2010

Thesis Advisor: Professor Robert O. Ritchie

8/2002 - 5/2006 University of Illinois at Urbana-Champaign Urbana, IL

BS in Civil Engineering, with Honors

Minor in Mathematics

- Emphasis in Structural and Geotechnical Engineering

PUBLICATIONS

W. Yao, Z. Cheng, A. Pham, C. Busse, E. Zimmermann, R. O. Ritchie, and N. E. Lane, “Glucocorticoid-Induced Bone Loss in Mice Can Be Reversed by the Actions of Parathyroid Hormone and Risedronate on Different Pathways for Bone Formation and Mineralization Arthritis and Rheumatism”, vol. 58, 2008, pp. 3485-3497.

FELLOWSHIP, AWARDS, HONORS

2008-2009 Outstanding Graduate Student Instructor Award

8/2006 – 5/2008 Achievement Rewards for College Scientists Graduate Fellowship

2006 Ira O. Baker Award in Civil Engineering

- Award recognizing the top two graduating seniors in the Department of Civil

Engineering and is based upon superior scholastic achievement, undergraduate research, leadership, and character.

2004 Undergraduate Research Conference in Mechanics Urbana, IL

- *Best Project* for Presentation: “Numerical Solution for Material Defects: Hydrogen Concentration in Precipitates”

2004 Undergraduate Research Opportunities Program Symposium sponsored by NASA Urbana, IL

- *First Place* for Presentation: “Viscoelastic Response of Solid Propellant Materials – A Criterion for Particle Dewetting”

VOLUNTEER EXPERIENCE

Techbridge (9/2007 - present) Oakland, CA

Lafayette School Mentoring Program (2/2009 – present) Oakland, CA