

Jillian S. Feldman

170 E. Sixth St. #1234 • Claremont, CA 91711 • 510-234-8457

[jillian.feldman@pomona.edu](mailto:jillian.feldman@pomona.edu)

**EDUCATION**

Pomona College, Claremont, CA

Bachelor of Arts in Chemistry, expected May 2009

GPA: 3.7/4.0

Thesis: "Charting the Miniscule: Exploratory Synthesis and Characterization of Manganese Doping in ZnO Quantum Dots" (Faculty Advisor: Professor James Pomona)

**RELATED COURSEWORK:**

Introduction to Chemistry A and B

Organic Chemistry I, II, and III

Bio-Organic Chemistry

Physical Chemistry I and II

Soft Nanomaterials

Geochemistry

Advanced Analytical Chemistry

Calculus I and II

Physics I and II

Biology I and II

Adv. Organic Chemistry: Pericyclic Reactions

Classical and Statistical Mechanics

Environmental Geology and Natural Resources

Instrumental Methods

**OTHER COURSEWORK:**

Traditions of World Dance

Self, Language, and Imagination

History of Ethnographic Film

LA UNIVERSIDAD DE CHILE, Santiago, Chile (Study Abroad, Spring 2008)

**EQUIPMENT & LABORATORY SKILLS**

GFAA, FLAA, Electrochem, HPLC, IR, Mass Spectrometer, PCR amplification and cloning of genes, heterologous protein overexpression, protein purification using FPLC, steady state and pre-steady state kinetic assays (including the use of stopped-flow spectroscopy), anaerobic assay development, UV-Vis spectrometry, gel electrophoresis, protein crystallization

**RESEARCH AND ACADEMIC EXPERIENCE**

Thesis Research (In Progress)

Fall 2007-Spring 2008

*Lead Concentration at Lake Hood and Lake Spenard in Anchorage, AK*

Soil samples taken from bottom surface of lake as well as surrounding area were digested using a modified version of the EPA's nitric acid digestion method, 3050b. Analysis of samples using Flame Atomic Absorption found concentrations ranging from 5-105ppm.

Jillian S. Felman

Page Two

A.W. Mellon Environmental Research Fellowship

Summer 2008

*Spectroscopic Determination of Lead Concentration in Soil at Puddingstone Reservoir*

Jillian Feldman '09<sup>1</sup>, Elizabeth Papalia '09<sup>2</sup>, Scott Corey '09<sup>3</sup>, and Professor Charles Taylor<sup>1</sup>

<sup>1</sup>Department of Chemistry, Pomona College, 645 N. College Ave. Seaver North, Claremont, CA 91711

Presented at 2007 Southern California Conference of Undergraduate Research (SCCUR)

Independent Study Research

Spring 2008

Researched lead concentrations in candy produced in Mexico under the supervision of Professor Charles Taylor.

**PRESENTATIONS/POSTERS**

Feldman, J., DeSantiago, S., Cahoon, L., Wu, M., Lancaster, K., Rockmill, B., and Hoopes, L.L. Mays; Reset of the *Saccharomyces cerevisiae* Aging Clock by Meiosis During Prophase Recombination Period. Annual Conference of the American Society for Cell Biology Conference, San Francisco, CA, December, 2005.

Feldman, J., Lopez, K., Sazinsky, M., and Crane, E.J.; Characterization of a CoA Disulfide Reductase/Rhodanese Enzyme from a Psychrotolerant *Shewanella* species. Gordon Research Conference on Protein Cofactors, Radicals, and Quinones, Ventura, CA, January, 2008.

**HONORS & ACHIEVEMENTS**

- Elected to Sigma Xi, the Scientific Research Society (2008)
- Craddock McVicar Award (2008)--provided funding for summer research and teaching in the Fall semester
- Craddock-McVicar Teaching Fellow (2007)--one of three students selected by Pomona College to integrate teaching and research.

**CAMPUS LEADERSHIP**

- Resident Advisor, 09/2008 -- Present
- Co-founder & Head Mentor, International Student Mentor Program, 05/2007 -- Present
- Coach of Claremont Colleges Men's Club Volleyball Team, three consecutive years
- Photographer, *The Student Life* (Pomona College student newspaper), 09/2007 -- Present

**REFERENCES**

Thomas Fink, Ph.D.

Professor, Chemistry

Pomona College

645 N. College Ave.

Claremont, CA 91711

[thomas.fink@pomona.edu](mailto:thomas.fink@pomona.edu)

Julia Hood, Ph.D.

Professor, Chemistry

UC Berkeley

Latimer Hall Room 419

Berkeley, CA 94720

[julia.hood@berkeley.edu](mailto:julia.hood@berkeley.edu)

James Pomona, Ph.D.

Thesis Advisor, Chemistry

Pomona College

645 N. College, Seaver North

Claremont, CA 91711

[james.pomona@pomona.edu](mailto:james.pomona@pomona.edu)