

Erinn Christine Dandley

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Summary Statement

I am a creative, independent thinker who will stop at nothing to understand and solve any problem put before me. Through discussions with peers and questioning those with subject mastery I reach my own conclusions. I then objectively and thoroughly validate them.

Education

University of Massachusetts Amherst

BS in Chemical Engineering with a Concentration in Biology

- GPA 3.9
- **Honors:** University of Massachusetts Athletic Directors 4.0 Club, Stanley Z Koplik Certificate of Mastery, Award for Highest GPA among all Teammates UMass Track, Chemical Engineering Frank Consoli Scholarship for academic excellence
- **Related course work:** Physical Chemistry; Nutrient Digestion, Absorption, and Uses; Process Design; Biology of Cancer and AIDs; Biochemistry

Expected YOG:
May 2012

Work Experience

University of Kentucky Research Experience for Undergraduates, Lexington, KY

- Determined the extent of interaction of AR-67 (an anticancer drug) and magnetite nanoparticles (MNPs) with various coatings in different buffers
- Calculated amount of AR-67 coating MNPs based upon differences in AR-67 concentration across a membrane using HPLC assay
- Created MNPs coated with AR-67 that could increase drug loading by 10 fold and mathematically modeled promising rate of release from MNPs
- Presented results to professors, peers and government officials in poster presentation

Summer 2010

Tutor at University of Massachusetts

- Teach material in chemistry and calculus, study techniques, and test preparation
- Increase comprehension of material by working through examples first with student and then allowing them to demonstrate independent mastery
- Improve students a whole letter grade or more

2007-Present

J's Restaurant at the Winery, Bolton, MA

- Hostess, bartender, server
- Anticipate the needs of coworkers and customers to assure smooth service
- Collaborate with servers, kitchen staff, and suppliers to ensure an enjoyable dining experience through professionalism and customer service

2005- Present

Technical Skills

Computer Skills: MS Office, MathCAD, Logger Pro, Mathematica

Lab Skills: pH meter, ultra centrifuge, ultra filtration, micro balance, DLS particle analyzer, UV vis, HPLC, ATR-FTIR, synthesising nano particles, and handling biohazardous material

Volunteer Experience

University of Massachusetts Track and Field Team Manager

- Varsity Pole Vaulter 2007-2009, quit due to persistent injury
- Support coaches by organizing workouts, recruiting, and videotaping practices

2009-Present

Susan G Komen 60 Mile Walk for Breast Cancer Team Captain

- Raised over \$2500 for breast cancer research
- Motivated those struggling to complete the 60 mile walk

August 2009

American Institute of Chemical Engineers Northeast Conference

- Arranged workshops and tours geared towards environmentally friendly research

March 2009

Interests

- Duct tape MacGyver
- Excellent dessert chef
- World traveler