

EDUCATION

Massachusetts Institute of Technology (Cambridge, MA) 9/2008 - Present

Degree objective: Ph.D., Biological Engineering

University of Texas at Austin (Austin, TX) 8/2004 – 5/2008

B.S., Biomedical Engineering *with high honors*

Overall GPA: 3.9/4.0

University of Cambridge (Cambridge, England) 6/2006

Study Abroad, UT BME - Transport Phenomena

RESEARCH EXPERIENCE

Massachusetts Institute of Technology (Cambridge, MA)

Advisor: Professor K. Dane Wittrup

1/2009 – Present

Graduate Research Assistant

- Engineering antibodies for improved effector functions.

University of Texas at Austin (Austin, TX)

Advisor: Professor George Georgiou

7/2006 – 5/2008

Undergraduate Research Assistant

- Increasing efficiency of protein folding *in vivo* by working with the disulfide bond formation pathway for the enhanced expression of heterologous proteins with therapeutic applications.

University of Washington (Seattle, WA)

Advisor: Professor James D. Bryers

6/2007 – 8/2007

National Science Foundation Research Experience for Undergraduates

- Investigating quantum dot uptake by the bacterium *Pseudomonas aeruginosa*, an opportunistic pathogen that often forms biofilms and contributes significantly to nosocomial infections.

ADVISING EXPERIENCE

Massachusetts Institute of Technology (Cambridge, MA)

Teaching Assistant: Analysis of Biomolecular and Cellular Systems

8/2009 – 12/2009

- Prepared course materials, problem sets, exams, and solutions
- Taught weekly recitation sessions

University of Texas at Austin (Austin, TX)

Research Mentor: George Georgiou Lab

1/2008 – 5/2008

- Supervised undergraduate research assist., Laura Strong, on her project of directed evolution of yeast protein disulfide isomerase (PDI) for increased efficiency in a bacterial system.

PUBLICATIONS

Arredondo, S.A., **Chen, T.F.**, Riggs, A.F., Gilbert, H.F., Georgiou, G., “The role of dimerization on the catalytic properties of the *Escherichia coli* disulfide isomerase DsbC.” J Biol Chem 284:36 23972-23979 (2009).

Chen, T., Ma, H., Katzenmeyer, K., Bryers, J., “Evaluation of quantum dot internalization with the bacterium *Pseudomonas aeruginosa*.” Journal of Undergraduate Research in Bioengineering (2008). [accepted]

AWARDS AND HONORS

Graduate

NIH/NIGMS Biotechnology Training Program

Gordon & Adele Binder Fellowship

Department of Homeland Security Fellowship (declined)

Undergraduate

Tau Beta Pi National Engineering Honor Society

University Honors

Distinguished College Scholar

Engineering Scholar