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EDUCATION

2007-present Princeton University, Princeton, New Jersey
Ph.D. Candidate, Chemical Engineering
Advisor: Celeste M. Nelson

2003-2007 Polytechnic University, Honors College, Brooklyn, New York
B.S. in Chemical & Biological Engineering with a Minor in Mathematics
Advisors: Jose M. Pinto & Mauricio Porfiri

HONORS

Fall 2008 Princeton University William R. Schowalter Travel Fund Award
2007-2008 Vice President of Chemical Engineering Honor Society, Omega Chi
Epsilon
2007-2008 Graduate fellow of National Engineering Honor Society, Tau Beta Pi
2003-2007 Polytechnic University Dean's List
2003-2007 Polytechnic University Board of Trustee Scholarship

EXPERIENCE

2008-present Graduate Research studying the effects of substratum stiffness and
composition on matrix metalloproteinase-3 induced epithelial-
mesenchymal transition

Spring 2009 Assistant Instructor for CHE 346 undergraduate chemical engineering
core lab.

- Supervised students in experiments of surface coating, ultrafiltration and distillation column.
- Graded lab reports and poster presentations.

09/06-06/07 Undergraduate Research on Modeling on Ecological Systems

- Simulated population dynamics in ecosystems under different conditions using C++.
- Developed probabilistic equations to predict the population trend.

09/05-06/07

Teaching assistant for undergraduate multivariable calculus.

- Graded homework assignments and worksheets.
- Held workshops and review sessions.

PUBLICATIONS

1. Gomez E.W., Chen Q.K., Gjorevski N., & Nelson C.M. (2010) Tissue geometry patterns epithelial-mesenchymal transition via intercellular mechanotransduction. *J. Cell. Biochem.*, 110: 44-51.

PRESENTATIONS

1. Poster Presentation. "The Role of Biophysical and Biochemical Signals in Epithelial-Mesenchymal Transition," Chen Q.K., E. W. Gomez, Radisky D.C. Nelson C.M. American Society of Cell Biology Annual Meeting, Philadelphia, Pennsylvania, December 2010.
2. Poster Presentation. "The Role of Biophysical and Biochemical Signals in Epithelial-Mesenchymal Transition," Chen Q.K., E. W. Gomez, Radisky D.C. Nelson C.M. Engineering Society Annual Meeting, Austin, Texas, October, 2010.
3. Poster Presentation. "Basement membrane regulates orthogonal cell fate decisions by controlling cell morphology," Chen Q.K., Radisky D.C. Nelson C.M. Engineering Society Annual Meeting, Pittsburgh, Pennsylvania, October, 2009.
4. Poster Presentation. "Effects of Basement Membrane on Matrix Metalloproteinase-3-Induced Epithelial-Mesenchymal Transition," Chen Q.K., Radisky D.C. Nelson C.M. The American Institute of Chemical Engineers Annual Meeting, Philadelphia, Pennsylvania, November, 2008.
5. Oral presentation. "Roles of Biochemical and Physical Signals in Matrix Metalloproteinase-3 Induction of Epithelial-Mesenchymal Transition," Chen Q.K., Radisky D.C. Nelson C.M. Biomedical Engineering Society Annual Meeting, St. Louis, Missouri, October, 2008.