

# VINCENT VERRUTO

E-MAIL: VJVERRUT@NCSU.EDU  
2008 TREXLER CT • RALEIGH, NC 27606 • PHONE (919) 233-8357

## OBJECTIVE

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To expand my knowledge and application of colloidal and bio/nanotechnological characterization techniques through completion of a comprehensive PhD program.

## EDUCATION

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1999–2003 University of Delaware Newark, DE

- Major - Chemical Engineering (BCHE)
- Minor - Biology
- GPA 3.72/4
- Elective Courses - Colloid Science, Polymer Science

2003-current North Carolina State University Raleigh, NC

- PhD Program – Chemical Engineering
- Project – Crude Oil/Water Emulsion stability, asphaltenic film characterization
- GPA 3.9/4

## RESEARCH EXPERIENCE

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2001-2003 University of Delaware Newark, DE

*Senior Thesis* : “*The role of cross-protein interactions in diafiltration of binary mixtures*”

- Measured cross-protein interactions by self-interaction chromatography
- Performed diafiltration experiments to investigate the correlation between cross-protein interactions and separation behavior
- Utilized ion-exchange chromatography for post-diafiltration concentration determination

Summer 2003 Merck Research Labs: Pharm. R&D West Point, PA

- Investigated pseudo-ternary phase behavior for surfactant/oil/water systems
- Characterized drug/vehicle/water emulsions by Focused Beam Reflectance Method (FBRM)

## CONFERENCE PRESENTATIONS

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- Peter M. Tessier, Vincent J. Verruto et al., “Insights into molecular interactions involved in protein crystallization and protein separations”, AICHE Fall National Meeting, Indianapolis, IN (2002).
- Peter M. Tessier, Vincent J. Verruto et al., “Characterization of molecular interactions in binary protein mixtures by self-interaction chromatography,” ACS Fall National Meeting, Boston, MA (2002).

## PUBLICATIONS

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- Tessier, P.M., Verruto, V.J., Sandler, S.I., Lenhoff, A.M. “Correlation of Diafiltration Sieving Behavior of Lysozyme-BSA Mixtures with Osmotic Second Virial Cross-Coefficients.” *Biotechnology & Bioengineering*. 2004.

## AWARDS AND ACTIVITIES

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- Mr. & Mrs. James F. Kearns Scholarship in Chem. Engineering (2002-2003)
- President of AICHE, UD Student Chapter (2002-2003)
- UD Scholar Award (1999-2003)
- Dean’s Fellowship, NC State Univ. (2003-2004)