

## CURRICULUM VITAE

Chaya Rapp

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### EDUCATION

1990-1993 Columbia College; Columbia University  
B.A. in Biochemistry  
1993-1998 Graduate School of Arts and Sciences; Columbia University  
M.A in Chemistry, M. Phil, Ph.D. in Theoretical Chemistry

### POSITIONS HELD

2006 - Present Stern College for Women, Yeshiva University; Clinical Associate  
Professor of Chemistry  
1999 - 2006 Stern College for Women, Yeshiva University; Assistant Professor of  
Chemistry  
1999 - 2006 Department of Chemistry, Columbia University; Adjunct Associate  
Research Scientist  
2001 Schrödinger Inc., Consultant  
1999 Yeshiva College, Yeshiva University; Instructor of Chemistry  
1995 - 1996 Manhattan High School for Girls, Instructor of Physics

### TEACHING

1999 - Present Teach General Chemistry, Honors General Chemistry and Physical  
Chemistry, Stern College for Women  
1999 2016 Supervise student research in computational chemistry, Stern College for  
Women  
2002 Led joint Senior Seminar in Advanced Chemistry at Stern College for  
Women and Yeshiva College  
2000, 2002 Taught Biochemistry, Stern College for Women  
2000 Initiated Biochemistry major at Stern College for Women  
2000 Current T  
1999 Sabbatical Replacement Yeshiva College, General Chemistry,  
Physical Chemistry and Senior Seminar  
1995 - 1996 High School Physics Instructor, Manhattan High School for Girls  
1994 Graduate Instructor Quantum Mechanics, Columbia University  
1993 Graduate Instructor General Chemistry, Columbia University

### SERVICE

2015-present Chair, Department of Chemistry and Biochemistry, Stern College for  
Women  
2010 - Present Advisor to pre-medical and pre-dental students, Stern College for Women

2002 - Present

Faculty advisor to Student Affiliate Chapter of the American Chemical Society, Stern College for Women

2016-present

receptor complex, 245<sup>th</sup> National Meeting of the American Chemical Society, New Orleans, LA.

**A. Schiffmiller** of Protein Kinase  
Columbia Undergraduate Research Symposium, April 2009.

**R. Eisner, C. Schonbrun, N. Huang and C. Rapp.** "Force field based Receptor Ligand Rescoring", 40<sup>th</sup> American Chemical Society Middle Atlantic Regional Meeting, Ursinus, PA, May 2007.

**E. Levine**  
<sup>th</sup> American Chemical Society Meeting, Atlanta.  
Georgia, April 2006.

**I. Rienman, D. Benmurgui**  
<sup>th</sup> American Chemical Society Meeting, Philadelphia, PA, August 2004.

**R. Frankel, T. Fischer** cking on Protein Loop  
<sup>th</sup> American Chemical Society Middle Atlantic Regional Meeting, Princeton, NJ,  
June 2003.

L. Blau, C. Dobin, D. Estes, and C.S. Rapp, "Nontraditional Experiments in an Honors Biochemistry Laboratory Course", 225<sup>th</sup> American Chemical Society Meeting, New Orleans, LA, March 2003.

M.P. Jacobson, Y. An, T. Day, V. Eylich, R. Farid, J. Gunn, S. Harrington, X. Li, D.L. Pincus,  
Bioi CASP5, Community Wide Assessment of Techniques for Protein Structure  
Meeting, Asimolar, CA, December 2002.

<sup>th</sup> American Chemical Society Middle Atlantic Regional Meeting,  
Fairfax, VA, May 2002.

## INVITED TALKS

Department of Chemistry, Yeshiva College, December 2003.

Department of Chemistry and  
Biochemistry, Vassar College, April 2002.

Department of Chemistry,  
St , January 2002.

Yeshiva College, November 1999.

Department of Chemistry  
and Department of Biochemistry and Molecular Biophysics, Columbia University, June 1997.

mulation of Large Scale Domain Motions in  
Department of Chemistry, Columbia University, November 1996

**PUBLICATIONS** (Bold face name indicates a student co-author)

C. Rapp, **E. Goldberger**, **N. Tishbi**, and **R. Kirshenbaum**. Cation- $\pi$  Interactions of Methylated Ammonium Ions: A Quantum Mechanical Study : Structure, Function, and Bioinformatics 82:1494-1502.

C. Rapp, **S. Snow**, **T. Laufer**, and C.L. McClendon. The role of tyrosine sulfation in the dimerization of the CXCR4:SDF-1 complex Protein Science 22:1025-1036.

C. Rapp, **H. Klerman**, **E. Levine**  
Phosphorylated and Sulfated Amino Acid Residues . PLoS ONE 8(3): e57804.  
doi:10.1371/journal.pone.0057804

C. Rapp, C. Kalyanaraman, **A. Schiffmiller**, **E.L. Schoenbrun**, and M.P. Jacobson.  
"A Molecular Mechanics Approach to Modeling Protein-Ligand Interactions: Relative Binding Affinities in Congeneric Series" (2011) Journal of Chemical Information and Modeling 51(9), 2082-2089.

C. Rapp, **C. Schonbrun**, M.P. Jacobson, C. Kalyanaraman and N. Huang. "Automated Site Preparation in Physics-Based Rescoring of Receptor Ligand Complexes" (2009) Proteins: Structure, Function, and Bioinformatics 77(1), 52-61.

C. Rapp, **T. Strauss**, G. Fuentes and A. Nederveen. Prediction of Protein Loops in S (2007) Proteins: Structure, Function, and Bioinformatics 69(1), 69-74.

D.J. Mandell, I. Chorny, E.S. Groban, S. Wong, **E. Levine**, C.S. Rapp, and M.P. Jacobson. "The strengths of hydrogen bonds involving phosphorylated amino acid side chains" (2007) Journal of the American Chemical Society, 129(4), 820-827.

C. Rapp and **R.M. Pollack**. (2005) Proteins: Structure, Function, and Bioinformatics 60(1), 103-109.

M.P. Jacobson, D.L. Pincus, C.S. Rapp, T. Day, B. Honig, D.E. Shaw and R.A. Friesner. "A

M.P. Jacobson, G.A. Kaminski, R.A. Friesner and C.S. Rapp.

-11680.

C.S. Rapp and R.A. Friesner.  
of Solvation

: Structure, Function, and Bioinformatics 35(2), 173-183.

A. Ghosh, C.S. Rapp and R.A. Friesner.

-10990.