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### Education.

Stanford University, Stanford, CA	Ph.D,	1997	Biochemistry
Rice University, Houston, TX	B.A.	1990	Biochemistry, English

### Research and Professional Experience.

2003-present	<i>Assistant Professor.</i> Department of Biomolecular Engineering, University of California, Santa Cruz, CA
2000-2003	<i>Postdoctoral fellow.</i> Department of Biochemistry, University of Washington, Seattle, WA; laboratory of Dr. David Baker
1999	<i>Visiting scientist.</i> Department of Molecular and Cellular Biology, University of California, Berkeley CA; laboratories of Dr. Carlos Bustamante and Dr. Susan Marqusee
1996-1999	<i>Postdoctoral fellow.</i> Department of Biochemistry, University of Washington, Seattle, WA; laboratory of Dr. Rachel E. Klevit
1990-1996	<i>Graduate student.</i> Dr. Robert L. Baldwin; Department of Biochemistry, Stanford University, Stanford, CA.
1988-1990	<i>Undergraduate research.</i> Department of Biochemistry and Cell Biology, Rice University, Houston, TX; laboratory of Dr. Kathleen S Matthews
1988	<i>Undergraduate research;</i> Chemistry Division, Argonne National Laboratory, Argonne, IL; laboratory of Dr. Jack M. Williams

### Teaching Experience.

Winter 2003,2004	Protein Bioinformatics.
Winter 2004	Computational Biology Tools.

### Honors and Affiliations.

Member, International Society for Computational Biology, 2003-  
Member, American Association for the Advancement of Science, 1990-1998?,2003-  
Member, Protein Society, 1991-1998?  
NIH Interdisciplinary Program in Genomics Fellow, 2000-2002  
Damon Runyon-Walter Winchell Postdoctoral Fellow, 1996-1999  
Jane Coffin Childs Postdoctoral Fellowship (refused), 1996  
P.E.O. Scholar Graduate Fellowship 1993-1994  
National Science Foundation Graduate Fellowship, 1990  
Howard Hughes Graduate Fellowship Honorable Mention, 1990

**Publications.**

- Rohl, CA. Protein Structure Estimation From Minimal Restraints Using Rosetta. (2004) *Methods in Enzymology*. In press.
- Rohl CA, Strauss CEM, Chivian D, Baker D. Modeling Structurally Variable Regions in Homologous Proteins. (2004) *Proteins: Struct. Funct. Bioinf.*, 55: 656-677.
- Rohl CA, Strauss CEM, Misura K, Baker D. Protein Structure Prediction Using Rosetta. (2004) *Methods in Enzymology*, 383: 66-93.
- \*Bradley P, \*Chivian D, \*Meiler J, \*Misura KMS, \*Rohl CA, \*Schief WR, \*Wedemeyer WJ, Schueler-Furman O, Murphy P, Schonbrun J, Strauss CEM, Baker D. Rosetta Predictions in CASP5: Successes, Failures and Prospects for Complete Automation. (2003) *Proteins: Struct. Funct. Genet.* 53: 457-468. (\*equal contributors)
- Chivian D, Kim DE, Malmström L, Bradley P, Robertson T, Murphy P, Strauss CEM, Bonneau R, Rohl CA, Baker D. Automated Prediction of CASP 5 Targets Using the ROBETTA Server. (2003) *Proteins: Struct. Funct. Genet.* 53: 524-533.
- Tsai J, Bonneau R, Morozov AV, Kuhlman B, Rohl, CA, Baker D. An Improved Protein Decoy Set for Testing Energy Functions for Protein Structure Prediction (2003) *Proteins: Struct. Funct. Genet.* 52: 76-87.
- Gray JJ, Moughon S, Wang C, Schueler-Furman O, Kuhlman B, Rohl CA, Baker D. Protein-Protein Docking with Simultaneous Optimization of Rigid-Body Displacement and Side-Chain Conformations. (2003) *J. Mol. Biol.* 331: 281-299.
- Chin DH, Woody RW, Rohl CA, Baldwin RL. Circular dichroism spectra of short, fixed-nucleus alanine helices. (2002) *Proc Natl Acad Sci U S A.* 99:15416-21.
- Bonneau R, Strauss CEM, Rohl CA, Chivian D, Bradley P, Malmström, L, Robertson T, Baker D. *De Novo* Prediction of Three Dimensional Structures for Major Protein Families, (2002) *J. Mol. Biol.* 322: 65-78.
- Rohl CA, Baker D. Protein Structure Determination From Residual Dipolar Couplings Using Rosetta. (2002) *J. Am. Chem Soc.* 124: 2723-2729.
- Wedemeyer W, Rohl CA, Scheraga HA. Exact Solutions for Chemical Bond Orientations from Residual Dipolar Couplings (2001) *J. Biomolec. NMR.* 22: 137-151.
- Bonneau R, Tsai JW, Ruczinski I, Chivian D, Rohl C, Strauss CEM, Baker D. *Ab Initio* Protein Structure Prediction of CASP4 Targets Using Rosetta. (2001) *Proteins: Struct. Func. Genet. Suppl* 5: 119-126.
- Rohl CA, Fiori W, Baldwin RL. Alanine is Helix-Stabilizing in Both Template-Nucleated and Standard Peptide Helices. (1999) *Proc Natl Acad Sci USA.* 96: 3682-7
- Rohl CA, Boeckman FA, Baker C, Scheuer T, Catterall WA, Klevit RE. Solution Structure of the Sodium Channel Inactivation Gate. (1999) *Biochemistry* 38: 855-861.
- Rohl CA, Baldwin RL. Deciphering the Rules of Helix Stability in Peptides. (1998) *Methods in Enzymology* 295.: 1-26.

- Rohl CA, Baldwin RL. Comparison of NH Exchange and Circular Dichroism as Techniques for Measuring the Parameters of the Helix-Coil Transition in Peptides. (1997) *Biochemistry* 36: 8435-8442.
- Rohl CA, Chakrabartty A, Baldwin RL. Helix Propagation and N-cap Propensities of the Amino Acids Measured in Alanine-Based Peptides in 40 Volume Percent Trifluoroethanol. (1996) *Protein Science* 5: 2623-2637.
- Loh SN, Rohl CA, Kiefhaber T, Baldwin RL. A General Two-Process Model Describes the Hydrogen Exchange Behavior of RNase A in Unfolding Conditions. (1996) *Proc Natl Acad Sci USA* 93:1982-1987.
- Rohl CA, Doig AJ. Models for the  $3_{10}$ -Helix/Coil,  $\pi$ -Helix/Coil, and  $\alpha$ -Helix/ $3_{10}$ -Helix/Coil Transitions in Isolated Peptides. (1996) *Protein Science* 5: 1687-1696.
- Stapley BJ, Rohl CA, Doig AJ. Addition of Side Chain Interactions to Modified Lifson-Roig Helix-Coil Theory: Application to Energetics of Phenylalanine-Methionine Interactions. (1995) *Protein Science* 4: 2383-2391.
- Rohl CA, and Baldwin RL. Exchange Kinetics of Individual Amide Protons in  $^{15}\text{N}$ -Labeled Helical Peptides Measured by Isotope-Edited NMR. (1994) *Biochemistry* 33: 7760-7767.
- Rohl CA, Scholtz JM, York EJ, Stewart JM, and Baldwin RL. Kinetics of Amide Proton Exchange in Helical Peptides of Varying Chain Lengths. Interpretation by the Lifson-Roig Equation. (1992) *Biochemistry* 31, 1263-1269.
- Geiser U, Anderson BA, Murray A, Pipan CM, Rohl CA, Vogt BA, Wang HH, Williams JM, Kang DB, Whangbo M-H. BEDT-TTF Salts with Square-Planar Gold(III) Complex Anions:  $b\text{-(ET)}_2\text{AuCl}_4$  and  $(\text{ET})_2\text{Au}(\text{CN})_2\text{Cl}_2$ . (1990) *Mol. Cryst. Liq. Cryst.* 181, 105-116.

### Invited Seminars.

- Fifth Community Wide Experiment on the Critical Assessment of Techniques for Structure Prediction (CASP 5). Asilomar, CA, December 1-5, 2002.
- Second Biennial UCSC-QB3 Symposium on Bioinformatics: Predicting the Structure and Function of Proteins. Santa Cruz, CA, December 7-8 2002.
- Second Annual Western Canadian Structural Biology Workshop: Structural Genomics. Canmore Alberta, October 24-27, 2002.
- Computational Aspects of Biomolecular NMR Gordon Conference. Il Ciocco, Italy, May 6-11, 2001.
- Annual Meeting of the Japan Chem-Bio Informatics Society. Tokyo, Japan, July 25-27, 2001.
- Second Protein NMR Methodology Symposium. Sponsored by the RIKEN Genomic Sciences Center Protein Research Group. Yokohama, Japan. July 23, 2001.
- Fourth Community Wide Experiment on the Critical Assessment of Techniques for Structure Prediction (CASP 4).. Asilomar, CA, December 3-7, 2000.
- Second Annual Environmental Molecular Sciences Laboratory Workshop on Structural Genomics. Richland, WA; July 28-29, 2000.