

**CURRICULUM VITAE**  
**PALLAV KOSURI**

Department of Biological Sciences  
Columbia University  
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**EDUCATION**

Ph.D. Program in Biochemistry and Molecular Biophysics, 2006-(present)

Columbia University, New York

- Thesis topic: Studying enzyme catalysis using AFM
- Thesis adviser: Julio M. Fernandez, Ph.D., Department of Biological Sciences

M.S., Engineering Physics (co-terminal program, B.S./M.S.), 2001-2005

Royal Institute of Technology (KTH), Stockholm, Sweden

Thesis research at the European Center for Nuclear Research (CERN), Geneva, Switzerland

-Thesis title: "Operation and Development of the Resonant Ionization Laser Ion Source at ISOLDE, CERN"

-Thesis advisers: Valentin N. Fedosseev, Ph.D., Senior Physicist, CERN; Lars-Erik Berg, Ph.D., Department of Chemical Physics, KTH

Additional courses taken:

- Molecular Biology (18 credits), Karolinska Institute, Stockholm, Sweden
- Psychology (12 credits), Stockholm University, Stockholm, Sweden

**HONORS AND AWARDS**

Fulbright Scholarship for graduate studies in the United States, 2006-(present)

Henrik Göransson Sandviken Foundation Scholarship, 2005

KTH General Funds grant, based on academic record (top 3% approx.), 2005

**RESEARCH EXPERIENCE**

Columbia University, graduate rotation projects

Lab of Eric C. Greene, Ph.D., Dept. of Biochemistry and Molecular Biophysics, 2007

-Development and construction of dual optical tweezers for use in single molecule studies of DNA repair proteins

Lab of Ruben L. Gonzalez, Jr., Ph.D., Dept. of Chemistry, 2007

-Development of a rigorous method for analysis of single molecule FRET data using Hidden Markov Modeling; Using FRET to investigate the L1 ribosomal protein's function and kinetics during translation

Lab of Arthur G. Palmer, III, Ph.D., Dept. of Biochemistry and Molecular Biophysics, 2006

-Using novel NMR relaxation methods to study the dynamics of the protein HP-67

European Center for Nuclear Research (CERN), Master's thesis work

RILIS (Resonant Ionization Laser Ion Source) at the ISOLDE facility for on-line isotope separation, 2005

–Operation of the laser ion source during nuclear experiments; Development of a technical upgrade of the laser ion source; Theoretical study of laser ionization spectroscopy of atomic gold

### **TEACHING EXPERIENCE**

Teaching Assistant for Molecular Biophysics, Columbia University, 2007

Trainer/Instructor, Arena Diving, SK Neptun, 2005

Teacher Substitute, Enskede High School, 2004

### **OTHER PROFESSIONAL APPOINTMENTS**

Project leader, “The Fire Room”, Nobel Nightcap (part of the Nobel Prize festivities), 2004

Advisor for prospective students, Royal Institute of Technology, KTH, 2005

Documentary/travel photographer, IDG Publishing, (<http://www.pallav.se>) 2005-2006

Classical guitarist with extensive concert experience and multiple awards

### **PRESENTED WORKS**

“Chemical Exchange Methods for Characterizing Protein Folding Intermediates”, Palmer, A.G., Experimental Nuclear Magnetic Resonance Conference, Abstracts, 2007

“Structural dynamics of the L1 protuberance during translation”, Fei, J., Kosuri, P., Gonzalez, R., International Conference on Ribosomes, “Ribosomes: Form and Function”, Poster Session, 2007

### **PUBLICATION**

“Development of an Ionization Scheme for Gold using the Selective Laser Ion Source at the On-Line Isotope Separator ISOLDE”, Fedosseev, V., Kosuri, P, Marsh, B.A., CERN Accelerators and Beams, 2006