

# Kitran M. Colwell

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## Objective:

To secure private employment as a tutor in the fields of physics and mathematics.

## Education:

University of California - San Diego La Jolla, CA  
Current Graduate Student - Department of Physics 2008-

- Cumulative GPA: 3.86
- Completed coursework in mathematical methods (201), quantum mechanics (212ABC), classical mechanics (200AB), electromagnetism (203AB), equilibrium/nonequilibrium statistical mechanics (210AB), field theory (215AB), solid state physics (211A), geometrical physics (259AB), group theory (220)

University of California - Berkeley Berkeley, CA  
B.A., Physics and Mathematics 2004-2008

- Cumulative GPA: 3.75 (High Distinction in General Scholarship - *Magna cum laude*)
- Physics GPA: 3.82
- Completed undergraduate course work in multivariable calculus, linear & abstract algebra, real & complex analysis, differential geometry, mathematical logic, quantum mechanics, electromagnetism, analytical mechanics, statistical mechanics, semiconductor circuitry, advanced laboratory methods, biochemistry, paleontology, fusion science, and molecular biophysics, as well as facilitating a DeCal class on Mesozoic marine reptiles
- Recipient of Laslett, Larimer, and Pomerantz Scholarships in Physics

## Work Experience:

Center for Theoretical Biophysics La Jolla, CA  
Graduate Researcher 20 hrs/wk, 7/09-12/09

- Model diffusive barrier crossing in non-equilibrium reaction-rate theory
- Summarize Kramers' theory on diffusive reaction dynamics

University of California - San Diego La Jolla, CA  
Teaching Assistant 20 hrs/wk, 9/08-9/09 & 1/10-

- Prepare discussion sessions for undergraduate classes, assist in teaching/tutoring
- Run laboratory sessions for undergraduate classes

Center of Integrated Nanomechanical Systems Berkeley, CA  
Undergraduate Researcher 10-20 hrs/wk, 9/07-6/08

- Create morphology optimization programs for organic photovoltaics
- Run nano-scale Monte Carlo simulations to determine peak efficiencies

Engineering Support Research Organization Berkeley, CA  
Microlab Assistant 10-20 hrs/wk, 10/06-12/07

- Maintain ISO Class 100 environment in microfabrication laboratory
- Stock chemicals (including hazardous/toxic), lab materials

Goin' Again Inc. La Verne, CA  
Technical Advisor 3-5 hrs/wk, 2001-2008

- Assist company members in computer/technical matters
- Network administrator/maintain network printers, computers, etc.
- Install new software, hardware; sustain optimum performance of electronics
- Well-versed in Windows and Macintosh environments, knowledge of Microsoft Office 2007 and Appleworks, iLife Suite 2006, as well as command line/terminal programming

Screen Actors' Guild  
Background Performer

Los Angeles, CA  
8-50 hrs/wk, Summers 2005-2007

- “Extra” in films and television
- Employed by: Columbia Pictures, NBC Studios, 20th Century Fox TV, CBS Productions, Warner Bros. Television, Third Gear Productions, Uptown Productions
- Cast by: Central Casting, Rich King Casting, Extra’s Management

### **Other Information**

- Beginning knowledge of French
- Intermediate knowledge of German
- Familiarity with C++, Perl, HTML (CSS), JavaScript, LabView, L<sup>A</sup>T<sub>E</sub>X, Mathematica
- Teaching/tutoring experience for standardized tests (GRE, AP, SAT, SAT II, HSEE) and college-level lecture, discussion, problem-solving, and laboratory classes
- Familiar with library data entry and able to follow detailed procedures and perform repetitive motions
- Experience in foreign travel to Manaus, Brazil and Prague, Czech Republic

*References Furnished Upon Request*