

**Mitchell Bekritsky**  
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**EDUCATION**

**Watson School of Biological Sciences, Cold Spring Harbor, NY** Expected Jun 2013  
PhD in Biological Sciences

**Northwestern University, Evanston, IL** Jun 2008  
Bachelor of Arts in Integrated Science, Molecular Biology & Genetics and  
Biochemistry

**ACADEMIC RESEARCH EXPERIENCE**

**Graduate Researcher, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY**  
**Research Supervisor:** Michael Wigler Aug 2009 – present

- Create novel algorithms for microsatellite detection, mapping and compilation
- Design high throughput microsatellite genotyping validation experiments
- Measure sources of noise and somatic variation in sequencing data to better infer microsatellite genotypes

**Undergraduate Researcher, Northwestern University, Evanston, IL**  
**Research Supervisor:** Luis A.N. Amaral, Department of Chemical and Biological Engineering Jun 2006 – Sep 2006

- Modeled heat shock response in *E. coli* using metabolic flux balance analysis and King-Altman method of derivation of steady-state dynamics

**Research Supervisor:** Richard I. Morimoto, Department of Biochemistry, Molecular Biology & Cell Biology Apr 2005 – Jun 2006

- Derived network model for interactions of Hsp70 & J Protein families in *C. elegans*
- Assessed microarray data available on *C. elegans* stress response and assisted with experimental design for further testing

**INDUSTRIAL RESEARCH EXPERIENCE**

**Bioinformatics Intern, Integrated DNA Technologies, Skokie, IL/ Coralville, IA** Jun 2007 – Jun 2008

- Developed Perl scripts to create and maintain databases for piRNA sequences and viral and organism genomes using NCBI EUtils
- Investigated relationships between piRNA sequences and viral genomes

**TEACHING EXPERIENCE**

**Instructor, Computing Applications, Northwestern University** Sep 2007 – Jun 2008

- Delivered lectures on UNIX, Maple, HTML and C++, Perl, CGI, SQL, BASH shell scripting and Message Passing Interface (MPI)
- Maintained class website and MySQL database providing student access to notes, assignments, grades and feedback, as well as office hour reservation system and online grading access to instructors

**Teaching Assistant, Computing Applications, Northwestern University** Sep 2005 – Jun 2007

**SKILLS**

**Computer:** Proficient in C++, Perl, BASH, SQL, and Sun Grid Engine; very familiar with R; proficient in Microsoft Office; very familiar with Windows XP, Mac OSX and UNIX