

# Elena Yavorska Harris

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PhD candidate  
University of California, Riverside

## Education

Ph.D. in Computer Science (Bioinformatics) University of California, Riverside	2005-current
M.A. in Mathematics, California State University of San Bernardino	2003-2005
M.S. in Computer Science, California State University of San Bernardino	2000-2003
B.S. in Nuclear Engineering, Odessa Polytechnic State University, Ukraine	1983-1988

## Academic and Teaching Experience

Graduate Research Assistant, Department of Computer Science and Engineering, University of California, Riverside	2008-current
<ul style="list-style-type: none"><li>▪ Design and implementation of an accurate and time efficient tool for mapping bisulfite-treated sequenced short reads;</li><li>▪ Benchmarking of tools for mapping short reads generated by Solexa-Illumina genome analyzer;</li><li>▪ Implementation of a nucleosome positioning algorithm using the coverage obtained from mapping short reads generated with Solexa-Illumina GAI;</li><li>▪ Implementation of an algorithm to identify TFB sites;</li><li>▪ Implementation of Overlap graph to assemble the ribosomal DNA of a chimpanzee in order to study SNPs of the rDNA.</li></ul>	

Associate Instructor,  
Department of Computer Science and Engineering,  
University of California, Riverside

### Courses taught

<ul style="list-style-type: none"><li>▪ Intermediate Data Structures and Algorithms</li><li>▪ Discrete Structures</li></ul>	Jul-Aug, 2008 Sep-Dec, 2007
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Teaching Assistant,  
Department of Computer Science and Engineering,  
University of California, Riverside

2005-2007

Courses taught

- Design and Analysis of Algorithms
- Intermediate Data Structures and Algorithms
- Theory of Automata and Formal Languages

Teacher of Mathematics,  
Adelanto School District, CA

Sep-Dec, 2004

Teacher of Mathematics,  
Hesperia School District, CA

Jan-Jun, 2003

### Professional Service

Reviewer for Computational Systems Bioinformatics (CSB08),  
Workshop on Algorithms in Bioinformatics (WABI08,  
WABI09), IEEE International Conference on Data Mining  
(ICDM08), SIAM Data Mining (SDM08), Combinatorial Pattern  
Matching (CPM08), International Symposium on Bioinformatics  
Research and Applications (ISBRA09).