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Natalie E. Castellana

EDUCATION

University of California-San Diego, San Diego, CA
September 2006-Present
Pursuing the degree of Ph.D. in Computer Science
Concentration in Bioinformatics

Carnegie Mellon University, Pittsburgh, PA
August 2002 – May 2006
Bachelor of Science in Computer Science, Minor in Physics
Q.P.A. 3.58, Graduated May 2006 with College and University Honors

WORK EXPERIENCE

Fairfax Collegiate School Summer Program, Falls Church, VA
June 2006-September 2006
Developed the curriculum and lesson plans for HTML, Java, virtual world design, and computer game programming classes. Taught basic computer skills and organization to grades 4-6 and more advanced programming concepts to grades 7-9.

Undergraduate Research in Computational Biology, Pittsburgh, PA
September 2004 – May 2006
Worked on a research team investigating haplotype models in association study design in the field of genetics. Developed tools to generate genomic data, model haplotype structure, and determine probabilistic links between disease and genetic code. Continued work during the summer of 2005 at the ALADDIN(Algorithmic Adaptation, Dissemination and Integration) Center Undergraduate Research Program at CMU.

Northrop Grumman Mission Systems, Mclean, VA
June 2004 – August 2004, Received Secret Clearance
Developed several final adjustments to product developed over the previous summer for delivery in August to the U.S. Dept. of Defense. Maintained and extended the capabilities of a web-based document repository.

Northrop Grumman Information Technology, Reston, VA
June 2003 – August 2003, December 2003 – January 2004
As a part of a team developed new functionalities for an intelligence-gathering and mapping tool for the U.S. Dept. of Defense.

PUBLICATIONS

Castellana N, Dhamdhere K, Sridhar S, and Schwartz R. “Relaxing Haplotype Block Models for Association Testing.” Proceedings of the Pacific Symposium on Biocomputing 2006.

HONORS

Judith Resnik Challenger Scholarship for Women in Engineering,
Four-year scholarship awarded by Carnegie Mellon University to one student annually.

Merck Undergraduate Research Award, awarded by the Carnegie Mellon University Merck Computational Biology and Chemistry Program. Funded two semesters of research in association testing in genetics.