



AN HONORS UNIVERSITY IN MARYLAND

RESEARCH EXPERIENCES FOR UNDERGRADUATES



Interdisciplinary Program in High Performance Computing

University of Maryland, Baltimore County (UMBC)

Summer 2010 and Summer 2011

www.umbc.edu/hpreu

Key Elements:

- eight weeks for eight students
- UMBC is located in the Baltimore-Washington corridor of industry and government agencies
- team work with dedicated graduate student mentors and faculty instructors
- professional development workshops; GRE prep course; poster presentation; technical report and publication opportunities
- no cost to the participants

Unique Features:

- fully transferable three-credit course on parallel computing with MPI using the [UMBC High Performance Computing Facility \(HPCF\)](#)
- includes introduction to tools of scientific and statistical computing: MATLAB, SAS, R, Linux, LaTeX
- interdisciplinary projects with clients from industry and government agencies through the [Center for Interdisciplinary Research and Consulting \(CIRC\)](#)
- field trips to local industry and government labs; optional trip to SIAM Annual Meeting 2010 in Pittsburgh

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UMBC



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