CAMERON BRACKEN

12 E 15th St. Appt. 2
707.825.6787
cameron.bracken@humboldt.edu
http://cbracken.info/

Education

- **Humboldt State University**—Arcata, CA
  Majoring in Environmental Resources Engineering and Applied Mathematics
  - GPA: 3.5 (overall), 3.5 (ERE major), 3.80 (Math major)
  - Projected Graduation Date: May, 2009
  - *Selected Courses*: Computational Methods For Engineers 1, 2, 3, Environmental Systems Engineering, Probabilistic Analysis of Environmental Systems, Environmental Monitoring and Data Analysis, Fluid Mechanics, Advanced (vector) calculus, ODEs, PDEs, Applied Stochastic Processes, River Hydraulics, Transport Phenomena, Thermodynamics, Dynamical Systems (independent study). *In Progress:* Advanced Numerical Methods, Hydrology, Physics 2, Water Quality and Environmental Health.

Experience

- **Environmental Fluids Research Experience for Undergraduates**—Unv. of Colorado, Boulder
  Summer 2007
  - Mentored by Dr. Balaji Rajagopalan in efforts to develop multi-site streamflow forecast framework.
  - Statistical analysis with R and MATLAB, data maniulation.
  - Work presented at American Geophysical Union Fall 2007 Conference.
  - Results will be submitted to *Water Resources Research* for publication.
- **Hydrology/Hydraulics Student Research Assistant**—Humboldt State University
  Fall 2006–present
  - Assist the research of Dr. Margaret Lang for CalTrans relating to culvert fish passage.
  - Preform flume experiments on scale models of culverts, data analysis, culvert surveying.

Skills

- **Modeling**
  - Finite differences, Finite elements, optimization, stochastic processes, statistical prediction, Monte Carlo simulation.
- **Operating Systems:**
  - Proficient with Mac OS 9 and X, Windows
  - Familiar with Linux (SUSE, Ubuntu), UNIX
- **Computer Languages and Programs:**
  - Proficient in FORTRAN 90, LaTeX, MATLAB, R, Excel
  - Familiar with FORTRAN 77, HTML, MySQL, C, C++, Adobe Illustrator

Awards

- Roscoe-Schneller Award for outstanding potential in environmental resources engineering, Spring 2007 ($500)
- Robert S. Chambers Award for academic achievement in mathmatics, Spring 2007 ($500).
- Honorable mention, 2007 COMAP Mathematical Contest in Modeling (MCM).

References

- Dr. Balaji Rajagopalan
  Associate Professor
  Dept. of Civil, Environmental and Architectural Engg.
  University of Colorado Boulder
  Phone: (303) 492-5968
  E-mail: balajir@spot.colorado.edu
- Dr. Margaret Lang
  Associate Professor
  Environmental Resources Engineering
  Humboldt State University, California
  Phone: (707) 826-3613
  E-mail: mml1@humboldt.edu
- Dr. Beth Burroughs
  Assistant Professor
  Department of Mathematical Sciences
  Montana State University
  Phone: (406) 994-3322
  E-Mail: burrough@math.montana.edu