

Elaine Lee

OBJECTIVE

Seeking full-time employment in a data modeling and/or analysis position

EDUCATION

Carnegie Mellon University (May 2010)
BS Mathematical Sciences (Operations Research) with
University Honors & College Research Honors
Minors: Computer Science, Statistics

- GPA: 3.54/4.0 (Dean's List 5 semesters)
- Judith Resnik Challenger Scholarship

University of Manchester (Manchester, UK)
Spring 2009 Study Abroad. GPA: 3.78/4.0

QUALIFICATIONS & SKILLS

US Department of Defense Security Clearance - Secret

Programming Languages: Java, C/C++, Perl, HTML, SQL
Applications: Microsoft Office, Dreamweaver, Oracle
SQL Server, Mathematica, Matlab, LaTeX, R, SAS
Operating systems: Windows, Unix
Languages: working knowledge of Cantonese,
familiarity with Mandarin and French

WORK & RESEARCH EXPERIENCE

Carnegie Mellon Statistics Department | Undergraduate Researcher *Pittsburgh, PA*
January - May 2010 | Project title: "Classifying Patients' Need For and Use of Pain Relief Medication"

- Worked with an anesthesiologist at the University of Pittsburgh Medical Center and 2 undergraduates to analyze analgesic demand data from knee surgery patients
- Used statistical techniques in R and Matlab: unsupervised learning, Hidden Markov Models, curve clustering
- Wrote paper and presented findings at CMU's annual undergraduate research symposium

Lockheed Martin Maritime Systems & Sensors | Intern *Moorestown, NJ*
June - August 2009

- Executed test procedures at the Combat System Engineering Development Site (CSEDS)
- Member of the Analysis team during Combat System Ship Qualification Trials (CSSQT) - analyzed test shot data, prepared daily summaries for the events, prepared final presentation of results to group leaders

May - August 2008

- Wrote and directed the execution of a test plan to verify the accuracy of the DGPS receiver used during AEGIS combat system testing
- Analyzed data using Excel and presented findings to the combat systems evaluation group

Intel First Year Research Experience (IFYRE) | Student Researcher *Pittsburgh, PA*
January - May 2008 | Project title: "Event Detection in Crowded Videos"

- Analyzed two image segmentation algorithms with respect to identifying human subject(s) of interest
- Programmed two algorithms in Matlab and ran tests on videos of different settings

Carnegie Mellon | Planning and Project Management Office (PPMO) Assistant *Pittsburgh, PA*
October 2007 - December 2008

- Updated Computing Services web pages to reflect current PPMO projects and to archive past accomplishments
- Collected and analyzed statistics about the CMU Andrew (computer) network using Excel
- Worked on reorganizing databases of outdated or redundant information using Oracle SQL Server

HONORS & AWARDS

- 1st Place: CMU Open Innovation Competition 2010
- SMART (Science, Mathematics, and Research for Transformation) scholarship
- Association of the US Army Citizen Scholar Award
- UFCW Local 464A scholarship
- Vanguard Women in IT scholarship

ACTIVITIES & LEADERSHIP EXPERIENCE

Carnegie Mellon Student Technology Outreach Club (STOC) | 2007 - 2010

- Helping other nonprofits in Pittsburgh with their technology needs
- Program Coordinator: developing lesson plans and teaching grade school students how to use computers, write simple programs, and build robots
- Secretary: recording minutes and planning meetings with other executive members

University of Manchester FuseFM music team | Spring 2009

- Reviewed newly-released and not-yet-released albums and singles weekly