

Biomedical Engineering

Stephanie Tam
Lia Tucker

Chemical Engineering

Doreen Burchell
Laura Dinn
Qianwen Liu
Lia Tucker
Mimi Oshinsky

Civil Engineering

Anna Greenfield
Ebere Okpareake
Meghan Pesch
Katie Rief

Cognitive Brain Science

Katy Ionis

Computer Engineering

Jessica Montana

Computer Science

Katy Ionis

Engineering Science

Cassandra Bannos

Environmental Engineering

Julianne Amenta
Allison Fechter
Carolyn Filler
Olivia Leach
Jenna Lohmann
Anna Simon
Kelly Smith
Jordyn Wolfand

Mechanical Engineering

Anne Doisneau
Kelly Engelking
Rosario Friedman
Courtney Mario
Abigail Spencer

Career Services

Dowling Hall, 7th Floor
Medford, MA 02155
617.627.3299

<http://careers.tufts.edu>

*Student resumes will appear alphabetically in this PDF

Julianne Amenta

Current: 12 Teele Ave, Apt #2 • Somerville, MA 02144 • 845-596-9888 (cell) • Julianne.Amenta@gmail.com

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Environmental Engineering - Expected: May 2011

Relevant Coursework: Physical Chemistry, Biology, Statics & Dynamics, Environmental Engineering Processes, Public Health Engineering, Probability & Statistics, Environmental Chemistry, Fluid Mechanics, Hydraulics & Hydrology, Clean Energy Technology & Policy, Technical Writing, Hydrology/Water Resources, Numerical Methods

EXPERIENCE

Sun Products Corporation, Houston, TX & Wilton, CT (6/10-9/10)

Intern, Environmental Health & Safety, Process Engineering, and Environmental Affairs & Sustainability

- Prepared wastewater (process and non-process water) permit applications
- Completed EPA Toxics Release Inventory for 2009
- Developed comprehensive stormwater pollution prevention plan for plant
- Investigated optimum storage, transport, and handling procedures for raw materials; wrote a technical report and gave presentation on findings; discussed amendments to storage contract

Platzl Brau Haus, Pomona, NY (6/08-8/08), (6/09-9/09)

Head Lifeguard

- Supervised and assisted pool patrons, and communicated with EMS
- Oversaw pool maintenance, conducted daily testing of water chemistry utilizing DPD2 method

Tufts Center for Engineering Education Outreach (CEEEO) (1/08-5/08)

STOMP Teacher

- Developed engineering curriculum for (K-12) schools in Medford-Somerville area
- Taught hands-on lessons using LEGOs so students could gain early engineering exposure

LEADERSHIP

Relay For Life, Tufts University (1/08-present)

Committee Co-Chair ('09-present), Committee Member ('08-'09), Team Captain ('08)

- Organize logistics of American Cancer Society fundraising and awareness event with 650 participants
- Manage committee and delegate responsibility, oversee budget of over \$4,000

SKILLS

Computer Skills: MATLAB, Minitab, VBA, MathCAD, R, AutoCAD, MS Office

Language Skills: Italian, proficient

ACTIVITIES

Professional Memberships: Society of Women Engineers, American Society of Civil Engineers

Dance and Fitness: Tufts Dance Collective, Intramural Volleyball, Power Yoga

Service: National Collegiate Volunteers ('08-'09), Sun C.A.R.E.S.

CASSANDRA BANNOS

Permanent: 110 Lawrence Dr. • Berkeley Heights, NJ 07922 • cassandra.bannos@tufts.edu • Cell: (908) 723 0521
Current: 359 Boston Ave. • Medford, MA 02155

EDUCATION

TUFTS UNIVERSITY, Medford, MA

- B.S. in Engineering Science expected May 2011
- GPA: 3.4, Dean's List
- Relevant Coursework: Technical and Managerial Communication, Engineering Leadership, Public Health (Civil Engineering focus)

UNIVERSITY OF MELBOURNE, Melbourne, Australia, February-June 2010

- Study abroad program.

PROFESSIONAL EXPERIENCE

AMNISURE INTERNATIONAL, LLC, Cambridge, MA

Business Development and Marketing Intern, June-October 2009

- Re-organized and updated customer database through Excel exports, online research, and manual editing
- Researched potential new markets and devices to improve business
- Created internal documents to track employee and marketing initiatives and projects; retroactively completed forms from 2008 until present

HARVARD BUSINESS SCHOOL, Allston, MA

Healthcare Research Assistant (Undergraduate Team Member), January-May 2009

- Researched Indian market for entrepreneurial health services idea
- Analyzed statistics and data from journals, databases, and government sites
- Provided advice and opinion to lead graduate student at meetings

EMPLOYMENT

STOMP Network, Medford, MA

Fellow, September 2010-Present

- Teach engineering, math, and science to 4th grade students through design projects and activities

LIFECAMP, Pottersville, NJ

Project Adventure Course Instructor, Summers 2008, 2010

- Taught team-building and helped campers reach their physical potential by instilling confidence in their abilities

Senior Counselor Summers 2006, 2007

- Guided Junior Counselor by delegating duties as necessary
- Mediated problems between campers and between peers.

LEADERSHIP EXPERIENCE

TUFTS WILDERNESS ORIENTATION, Medford, MA

Group Leader, August 2009-Present

- Lead canoeing, hiking, and camping trips for incoming freshman to help them transition into independent college setting
- Think critically and quickly about emergency situations and respond as necessary to determine the most appropriate actions
- Mentor participants academically and personally throughout year.

C.H.I.L.L.D., Medford, MA

Program Coordinator, January 2009-Present

- Communicate between Tufts' Leonard Carmichael Society and local school districts to pick program dates, plan activities, and find participants
- Facilitate social interaction between physically or developmentally disabled children through arts and crafts, games, and swimming

COMPUTER SKILLS

- MS Word, MS Powerpoint, MS Excel (extensive formula use)
- Some experience with Excel VBA, C++, Matlab, and Mathcad

OBJECTIVE

To secure an intellectually challenging position in advanced materials production in order to make a significant impact in the field of materials science.

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Chemical Engineering, Overall GPA: 3.6/4.0 expected May 2011

Mary Grant Charles Prize Scholarship, Dean's Scholar, Balfour Scholar, Dean's List all semesters

Phillips Exeter Academy, Exeter, NH

Exeter, NH. *Full scholarship* Overall GPA: 8.8/11.0, Graduated June 2007

RESEARCH/PROFESSIONAL EXPERIENCE

Nanobiofabrication Laboratory, Tufts University Medford, MA 06/10-08/10

Dean's Scholar in Undergraduate Research, Senior Honors thesis

- Secured research funding offered to one student per department per year on the basis of academic performance, written proposal and faculty recommendations
- Fabricated novel nanoscale photocatalysts for water splitting from platinum and titania based particles grown on tobacco mosaic virus biological templates

Undergraduate Research Assistant to Professor Hyunmin Yi, Tufts Univ. 01/10-present

- Fabricated PDMS molds for microfluidic microparticle generation and for high throughput biosensing microparticle replica molding

Pearson Chemical Laboratory, Tufts University Medford, MA 08/08-12/08

Organic Laboratory Assistant

- Provided and maintained a safe work environment by implementing safety procedures

RELEVANT COURSEWORK

Thermodynamics and Process Calculations, Physical Chemistry, Fluid Mechanics, Organic Chemistry, Structure and Strength of Materials, Electronic Devices for Energy Applications, Reactor Design, Heat and Mass Transfer, Chemical and Biological Separations, Physical Chemistry of Polymers, Principles of Polymerization, Applied Math and Software for Chemical Engineering.

LABORATORY SKILLS AND SOFTWARE

Atomic Force Microscopy, Bioreactors, Distillation Columns, GC gas chromatography, MathCAD, MATLAB, VBA, MS Office.

PROFESSIONAL SOCIETIES AND ACTIVITIES

American Institute of Chemical Engineers, *member*, 2007-present

Tufts Mixed Martial Arts, *member*, 2008-present

Laura Dinn

Current: Tufts University • E202-H Sophia Gordon Hall • Medford, MA 02155

Laura.Dinn@tufts.edu • (781)-985-5237

Permanent: 16 Bernard Rd • Woburn, MA 01801

Education

Tufts University, Medford, MA

Bachelor of Science in Chemical Engineering, May 2011 expected

GPA: 3.54/4.00, Dean's List: 6/6 semesters

Relevant Coursework

Chemistry: Organic Chem 2; Organic Chem 1 w/ Lab; Biochem/Cell Metabolism; Physical Chem 1 w/ Lab; Chemical Principles and Fundamentals w/ Lab;

Engineering: Heat and Mass Transfer; Reactor Design; Fluid Mechanics; Thermodynamics and Process Calculations; Intro. to Materials Science; Intro. to Biotechnology Engineering

Mathematics and Computation: Differential Equations; Calculus 1-3; Numerical Methods; Intro. to Computing in Engineering; Engineering Graphics and CAD

Arlington Catholic High School, Arlington, MA, Graduation: May 2007
Rensselaer Polytechnic Institute Math & Science Award, High Honors in Science & Math from Society of Women Engineers, AP Scholar with Honor

Industry Experience

Millipore Corporation, Bedford, MA

Upstream Processing Intern, May 2009-Aug 2009, May 2010-Aug 2010

- Performed application testing and kLa mapping for 3L bioreactors
- Maintained mammalian cell culture in 3L bioreactors
- Investigated optimization of mammalian cell growth and productivity in flasks

Tufts University Chemistry Department, Medford, MA

Laboratory Teaching Assistant, Jan 2009-May 2009

- Supervised laboratory safety in Chemistry 1 experiments for 14 students
- Graded problem sets, laboratory reports, and exams

Computer Skills

Software: MS Office, Mathcad, MatLab, Minitab, Aspen, AutoCAD

Languages: VBA

Extracurricular Activities

Tufts Irish Dance Club, Sept 2008-present, President Sept 2009-present

International Society for Pharmaceutical Engineering, April 2008-present

Society of Women Engineers, Sept 2007- present

American Institute of Chemical Engineers, Sept 2007- present

Tufts University Varsity Track and Field Team, Sept 2007- June 2010

ANNE DOISNEAU

42 Alden Rd Needham, MA 02492 • 28 Dearborn Rd Somerville, MA 02144
anne.doisneau@tufts.edu • 617-610-2843 (mobile)

EDUCATION

Tufts University, Medford, MA- Expected Graduation 2011

- Bachelor of Science in Mechanical Engineering
- GPA: 3.47, Dean's list

Needham High School, Needham, MA- Graduated June 2008

- Enrolled in all AP and Accelerated Classes, Honor Roll Student every term
- GPA: 4.63 / 5.00

ACADEMIC EXPERIENCE

Courses

- Engineering Graphics, New Product Design, Electrical Systems, Statics and Dynamics, Thermodynamics, Strength of Materials, Mechanical Design and Fabrication, Physics, Chemistry, Computer Science, Computing In Engineering, Machine Design, Fluid Mechanics, Biomaterials, Dynamics and Vibrations

Projects

- Speaker Design Project, New Product Design Project, Recycling Product Design Project, Deflection Design Project

COMPUTER SKILLS

Software and Languages

- AutoCAD, MathCAD, SolidWorks, Macintosh OS, Microsoft Office, VBA, C++

WORK EXPERIENCE

TechTarget, Inc., Needham, MA

Marketing Intern, 2007-2009

- Analyzed and maximized site traffic and promotional response
- Drove success of online media products, updated corporate websites, and sent promotional emails
- Researched sales figures and produced reports to monitor success of website content

Needham Times, Needham, MA

Contributing Correspondent, 2005-2008

- Wrote articles weekly for local newspaper

Integrity Computer Consultants, Needham, MA

Bookkeeper, 2004-2006

- Created, sent and recorded monthly invoices
- Maintained books for local IT business

Concord Country Club, Concord, MA

Camp Coordinator, Program Budget Overseer, Coach, Lifeguard, 2009-2010

- Organized swim meets and managed camp program budget
- Entrusted to open and close pool
- Taught basic and advanced swimming to swimmers aged 3-18

ACTIVITIES and AWARDS

Tufts University Varsity Swim Team

- Dedicated 20-25 hours/week to training and competing
- Awarded NESCAC All-Conference honors

Tufts Society of Women Engineers

- Attended board meetings and events

Engineers Without Borders, Tufts Chapter

- Attended weekly meetings and planned events

Shawmut Aquatic Club, USS Swim Team, 2002-2008

- Practiced 20+ hours/week and competed in meets at the local and national level
- Elected Captain, 2006-2008

USS Swimming All Scholastic, 2006, 2007, 2008

- Awarded All American honors

Kelly Engelking

Current: 12 Teele Ave, Apt #2 • Somerville, MA 02144 • Cell: 508-439-3038
Permanent: 2 Jasper St • Westborough, MA 01581 • Email: Kelly.Engelking@tufts.edu

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Mechanical Engineering, Expected May 2011

Minor: French

GPA: 3.10 (Dean's List: Fall 2007, 2008, Spring 2010)

RELEVANT COURSEWORK/COMPUTER SKILLS

Relevant Coursework: Engineering Materials, Finite Elements, Instruments/Experiments, Systems Design, Statics and Dynamics, Machine Design, Differential Equations, Fluid Mechanics, Thermodynamics, Heat Transfer, Human Factors

Computer Skills: Abaqus, SolidWorks, LabVIEW, MatLab, AutoCAD, MathCAD, VBA (Visual Basic Analysis), Microsoft Office

EXPERIENCE

U.S. Army Natick Soldier Systems Center, Natick, MA

Summer 2010

Engineering Lab Technician Assistant

- Performed material testing, including Instron fiber testing, hardness testing, and ultrasound testing of ceramics
- Gathered materials for and put together chest plates and helmet padding
- Created LabVIEW programs to control stepper motors used for fiber testing
- Developed user manuals for various testing equipment

PJ Keating Company, Lunenburg, MA

Summers 2008 & 2009

Intern

- Performed safety audits around the stone and asphalt production plants, created a list of safety procedures for all plant operations, conducted noise assessments of the plants, produced AutoCAD drawings of the plants
- Performed various tests for asphalt and stone products in Quality Control laboratory
- Researched, compiled, and produced financial reports for budget analysis

Town of Westborough Volleyball Camp, Westborough, MA

Summers 2004-07

Coach

- Demonstrated and instructed various skills to the children, ages 10-14
- Organized games and drills for the children

ACTIVITIES

Society of Women Engineers

2007-Present

American Society of Mechanical Engineers

2007-Present

Human Factors and Ergonomics Society

2007-Present

Leonard Carmichael Society, *Tutor*

2008-Present

- Provided free tutoring to students (K-12th grade) from Medford/Somerville community

Special Olympics, *Coach*

2004-2007

- Instructed disabled children in various sports, including soccer and basketball

SPORTS

Tufts Varsity Volleyball Team (Captain, 2010)

2007-Present

NCAA Elite 8 Participant

2009

Tufts Varsity Track & Field

2007-Present

Captain of Westborough High School Volleyball, Gymnastics, and Track Teams

2006-2007

ALLISON FECHTER

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EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Environmental Engineering, May 2011

GPA: 3.27

RELEVANT COURSEWORK

Chemistry for Environmental Engineers, Environmental Engineering Processes, Introduction to Environmental Engineering, Hazardous Materials Management, Environmental Health and Safety, Fluid Mechanics, Hydraulics, Differential Equations, Physical Chemistry, Environmental Geology, Technical Writing, Introduction to Computer Science

CURRENT COURSEWORK

Hydrology and Water Resource Engineering, Numerical Methods for Engineers, Biology, Air Pollution Control

EXPERIENCE

Sustainable Energy Access for Haiti, April 2008-Present

Officer

- Traveled to a rural community in northern Haiti on an assessment trip in July 2008
- Mapped the community using GIS units and Arcview software
- Designing a solar energy system to electrify a school and clinic which will be implemented in future trip
- Secured a donation of 12 solar panels from PB Solar

Tufts Office of Sustainability, Medford, MA, March 2008-Present

Intern

- Plan campus events that promote sustainability
- Design web pages using HTML
- Compile research for office projects.

AstraZeneca Pharmaceuticals, Waltham, MA, June-August 2010

Intern, Environmental Health and Safety Department

- Designed chemical safety training program for new hires
- Developed confined space entry training program to meet OSHA requirements
- Worked with the site's "Energy Team" to decrease energy use in the labs

Fairmount Water Works Interpretive Center (FWWIC), Philadelphia, PA, June- August 2009

Philadelphia Water Department Employee: Intern, Camp Councilor

- Prepared curriculum for a summer program for urban youth held at the country's first pumping station
- Taught campers about water issues and the history of the Philadelphia Water Department
- Created educational maps using Arcview

SKILLS

Web Design: HTML and Thinwire

Computer: CAD, Microsoft Office

ACTIVITIES

Tufts Student Resources Fitness Instructor, Medford, MA, Spring 2010- Present

Tufts Varsity Track and Field, Medford, MA, Fall 2007-Spring 2009

Knitting Club, Medford, MA, Fall 2007-Present

President

Carolyn Filler

Current: Tufts University • 50 Sunset Rd • Somerville, MA 02155 • Cell: (203) 417-3937
Permanent: 47 Hundred Acres Rd • Newtown, CT 06470 • Carolyn.Filler@tufts.edu

Education

- **Tufts University**, Medford, MA
Major in Environmental Engineering, Minor in Architectural Studies, expected 2011
GPA: 3.46
Relevant coursework: *Air pollution control, Public Health Engineering, Environmental Engineering Principles, Environmental Chemistry, Environmental Health and Safety, Environment and Technology*
- **School for International Training** Can Tho, Vietnam
Delta Ecology and Natural Resource Management, Spring 2010
Independent research on environmental impacts of methane biogas digesters
- **Newtown High School**, Newtown, CT
Graduation: June 2007 National Honor Society, Latin Honors Society

Experience

- **Jacobs Engineering**, Boston MA, June 2009-Dec 2009
Airport Engineering Intern
 - Collaborate on all phases of airport engineering projects (Specifications, Bid Plans, As-Built Plans, Cost Estimates, Environmental Impact Statements, etc.)
 - Attended project meeting and job site visits in field with clients and contractors
 - Use of MicroStation and AutoCAD to generate and design airport plans
- **CitySprouts**, Cambridge, MA, May-August 2010
Summer youth program fellow
 - Teach hands-on garden-based curriculum on food cycle, sustainable agriculture, and environmental stewardship
 - Understand inner-workings of environmental education nonprofit organizations
- **Tufts STOMP**, Shady Hill School, Cambridge, MA, Sept. 2008- May 2009
Student Teacher Outreach Mentorship Program
 - Teach science and engineering to elementary school students
 - Communicate and integrate curriculum with school administration
- **Tufts Scene Shop**, Medford, MA, Sept. 2007- May 2009
Carpenter
 - Hands-on understanding of carpentry materials, tools and equipment
 - Using and creating AutoCAD plans, analyzing cost and feasibility of plans
 - Problem solving and teamwork for design execution
- **Sabur Restaurant**, Somerville, MA May 2010-Present
Hot Shots Bar and Grille, Newtown, CT, May 2008-Jan. 2008
Server/ Bartender
 - Adapted to individual personalities to assure customer satisfaction
 - Interacted with owner and staff to produce quality team work
- **Jim Miller's Power Equipment**, Monroe, Ct, Jan. 2007-Aug. 2007
Secretary
 - Provided telephone and administrative support
 - Communicate technical and mechanical issues between staff and customers

Computer Skills : Microsoft Office, VBA, AutoCAD, MicroStation, MathCAD, Lingo, R

Activities: Assistant Technical Director for Tufts Student Theater Sept. 2007-Dec. 2009

Rosario S. Friedman

755 Shelburne Falls Rd. Conway, MA • rstfriedman@gmail.com • 413-374-4827

EDUCATION

Tufts University

Candidate for Bachelor of Science in Mechanical Engineering expected May, 2011
GPA in major: 3.2 Total: 2.98, Dean's list

University of Massachusetts Amherst

Summer 2008, Summer 2009
GPA: 3.9

Relevant course work:

- Thermodynamics, Fluid Mechanics, Heat transfer
- Controls (MATLAB, LabVIEW), Advanced Controls (state space)
- Instruments and Experiments (analytical and lab work with sensors and transducers).
- Micro Economics, Macro Economics

EXPERIENCE

Senior Design Project (*Sept. 2010 - Nov. 2010*)

Project lead for the Ability One Challenge

- Design and manufacture a system to help the clients of Work Inc. do their jobs without replacing them with an automated system

Summer Research with Prof. Gary Leisk (*Summer 2010*)

- Design and build a robotic fish that can function without a tether (battery powered, automated navigation and object avoidance system)

Tufts Center for Engineering Education and Outreach (*Jan. 2010 - Present*)

LabVIEW Education Edition Developer, Graphic Designer

- Designed and programmed GUIs for Lego Mindstorms NXT Applications on LabVIEW

Tufts Student Resources (*Aug. 2009 - Present*)

Fitness Instructor: various aerobics and toning based classes

ACTIVITIES

- Tufts Solar Race Car Team: Design calculations and assembly of brakes and suspension.
- Sarabande Repertory Dance Ensemble: *Executive board, Choreographer*
- ASME
- Tufts Mountain Club
- KDS Dance Company: *Captain, Instructor, and Choreographer*

SKILLS

Programs: LabVIEW, MATLAB, SolidWorks Modeling and Simulation Analysis (Finite Element Analysis (FEA)), MathCad, AutoCad, Microsoft Office, Visual Basic for Applications (VBA), Adobe Photoshop, Adobe Illustrator

ANNA GREENFIELD
2 Cobblestone Circle
Wayland, MA 01778
508-561-8497
Anna.Greenfield@tufts.edu
Ahgreenf88@gmail.com

EDUCATION Tufts University, Medford, Massachusetts
Bachelor of Science in Civil Engineering, expected May 2011
Minor in Engineering Management
GPA: 3.73, Dean's List all semesters

PROFESSIONAL REGISTRATION Engineer-in-Training, Massachusetts

RELEVANT COURSEWORK Steel Design, Engineer Design w/CAD, Numerical Methods, Structural Analysis, Fluid Mechanics, Technical Writing, Statics and Dynamics, Strength of Materials, Probability and Statistics, Air Pollution Control, Public Health, Environmental Engineering Principles

EXPERIENCE Jay Cashman, Inc. Quincy, Massachusetts

Full-time Intern, June 2010 – August 2010
Worked on construction bid proposals and created construction sequence schedules using Primavera P6

Part Time Intern, January 2010 – April 2010
Created rendered images with AutoCAD and 3D Studio Max to illustrate proposed construction sequences

PROFESSIONAL AFFILIATIONS Tau Beta Pi - Student member of the Tufts University chapter

Engineers Without Borders - Student member of the Tufts University chapter
Working on the design of a spring box water collection device that will be implemented in El Salvador

Read by the River – Board member
Promoting reading among children in Medford and Somerville, Massachusetts through childhood literacy projects

SPECIAL SKILLS Proficient in AutoCAD, Inventor, 3D Studio Max, Excel VBA, Primavera P6
Experience with MATLAB, MathCad, AutoLisp, R

Yekaterina (Katy) Ionis

Current: 24 Greenleaf Ave • Medford, MA 02155 • Cell (646) 327-5937
Permanent: 445 Neptune Ave #4B • Brooklyn, NY 11224 • katy.ionis@gmail.com

EDUCATION **Tufts University**, Medford, MA
Bachelor of Science, expected May 2011
Double Major: Computer Science and Cognitive Brain Science
GPA: 3.88

Universidad de Chile, Santiago, Chile, July – December 2009

Brooklyn Technical High School, Brooklyn, NY, June 2007
GPA: 4.0

COURSES Data Structures, Algorithms, Machine-Level Programming, Programming Languages, Theory of Computation, Visualization, Human Computer Interaction, Discrete Math, Cognitive Psychology, Social Psychology, Linguistics, Sociolinguistics

EXPERIENCE **Computer Science Department, Tufts University**, Medford, MA
Teaching Assistant, September 2008 – present

- Clarified programming concepts in introductory and data structures courses
- Instructed students in lab techniques
- Promoted creative and well-organized solutions

Carlson Software, Watertown, MA
Software Engineering Intern, June 2010 – August 2010

- Implemented PHP script querying crash report database to aid debugging
- Developed features for new release using C++, HTML, PHP, TinyXML
- Expanded existing routines for compatibility with new file types

English Opens Doors Program, Santiago, Chile
Teaching Assistant, September - December 2009

- Taught English to Spanish-speaking high school students
- Conducted conversational groups; corrected grammar and usage

Dr. Jessica Allan Medical Office, New York, NY
Administrative Assistant, July – August 2008, August 2007

- Systematized filing system and scheduled appointments
- Managed office tasks including referrals and prescriptions

Peter A. Frankel Law Firm, New York, NY
Intern, July-August 2006

- Transcribed correspondence
- Updated clientele database

LEADERSHIP & ACTIVITIES **New England Undergraduate Computing Symposium**, *Poster Presenter*,
“Visualizing fNIRS and Predicted Classes,” April 2010
Student Association for Computing Machinery, *Secretary*, September 2008 - present
Russian Circle, *Vice President, Secretary*, January 2008 - present
Tufts Educational Day Care Center, *Volunteer*, September 2007 – May 2008
Ballroom Team, *Competitive Dancer*, September 2007 – May 2008

SKILLS *Language*: fluent in Russian, proficient in Spanish
Computer: C++, C, PHP, Processing, Windows, Mac, Microsoft Office

OLIVIA LEACH

Current: 75 Ossipee Rd • Somerville, MA 02144 • (203) 807-2808

Permanent: 60 Allwood Rd • Darien, CT 06820 • Olivia.I.M.Leach@gmail.com

EDUCATION

Tufts University | Medford, MA 02155

Bachelor of Science in Environmental Engineering | May, 2011

Minor: Engineering Management

Cumulative GPA: 3.46; Dean's List, Cataldo Award

Relevant coursework: Probability & Statistics, Physics, Chemistry, Biology, Mechanics—Statics & Dynamics, Differential Equations, Multivariable Calculus, Environmental Engineering Principles, Environmental Health & Safety, Environmental Chemistry, Physical Chemistry, Fluid Mechanics, Hydraulic Engineering, Hazardous Materials Management, Engineering Management, Technical & Managerial Communication

EXPERIENCE

Integrated Multiphase Environmental Systems Laboratory (IMPES) | Medford, Massachusetts

Research Assistant | May—August 2009, May 2010—*Present*

- Assisted a graduate student in his research regarding wastewater treatment by providing experiment maintenance and conducting and interpreting side experiments
- Conducted independent research investigating alkalinity release via emulsions in the subsurface, funded by the National Science Foundation

Tufts Student Teacher Outreach Mentorship Program (STOMP) | Medford, Massachusetts

Student Fellow | January 2010-*Present*

- Worked with elementary school teachers to create a creative engineering curriculum to develop student problem-solving skills and spark early interest in engineering principles

Tufts University Police | Medford, Massachusetts

Student Dispatcher | September 2008—May 2010

- Provided backup for police dispatchers by communicating between the public and on-duty officers

SKILLS

- *Computer:* Microsoft Office, Visual Basic, MathCAD, MatLAB, Sigma Plot, Lingo
- *Language:* Intermediate knowledge of French, elementary knowledge of Russian

ACTIVITIES

- Tufts Society of Women Engineers (SWE) | Medford, Massachusetts | Member: 2007-*Present*
- American Society of Civil Engineers (ASCE) | Medford, Massachusetts | Member: 2009-*Present*
- Tufts Leonard Carmichael Society | Medford, Massachusetts | Volunteer: Sept. 2007-*Present*
- ATO of Massachusetts | Medford, Massachusetts | Member: Jan. 2008-October 2009
- Tufts Sailing Team | Medford, Massachusetts | Member: Sept. 2007-Sept. 2008
- Adopt-A-Dog Animal Shelter | Armonk, New York | Volunteer: May 2008-*Present*
- Tufts Freshman Oriented Community Service | Medford, Massachusetts | Participant: Sept. 2007

Qianwen Liu

13 Grant Rd • Hanover, NH 03755 • (603) 727-2142 • qianwen.liu@gmail.com

Education **Tufts University**, Medford, Mass.
Bachelor of Science in Chemical and Biological Engineering, expected May 2011
GPA: 3.81/ 4.0, Dean's List every semester

Relevant Coursework

Fluid Mechanics, Heat and Mass Transfer, Principles of Polymerization, Thermodynamics and Process Calculations, Reactor Design, Chemical and Biological Separations, Unit Operations, Principles of Cell and Microbe Cultivation, Biochemistry and Cell Metabolism, Technical and Managerial Writing

Experience

EMD Millipore, Bedford, Mass.

Intern, Upstream Bioprocessing, June–August 2010

- Led project to enhance POROS Protein A Chromatography Column resolution on WATERS Acquity Ultra Performance Liquide Chromatography (UPLC) system
- Designed and conducted studies evaluating pump shear effects on Chinese Hamster Ovary (CHO) cell integrity at high velocities for development of large scale disposable bioreactors

Millipore Corporation, Bedford, Mass.

Intern, Upstream Bioprocessing, June–August 2009

- Led efforts to develop a cell based cell membrane integrity assay
- Evaluated the stability of CHO cell lines in the absence of selective antibody puromycin

Mascoma Corporation, Lebanon, N.H.

Intern, Pretreatment and Hydrolysis, May–August 2008

- Evaluated change of pH and its negative impact on cellulase in enzymatic hydrolysis of pretreated substrates
- Optimized pH and temperature for increasing sugar yield in enzymatic hydrolysis at high solid concentrations
- Assessed enzyme performance in Simultaneous Saccharification and Fermentation (SSF) of pretreated substrates for ethanol production

Intern, Fermentation, July–August 2007

- Analyzed glucose, xylose, galactose, arabinose, and mannose content of lignocellulosic biomass
- Determined digestibility of steam-exploded hardwood by enzymatic hydrolysis with cellulase and xylanase by calculating the total biomass conversion
- Performed strain selection and adaptation of engineered anaerobic bacteria for higher ethanol tolerance

Computer and Laboratory Skills

Empower, ASPEN, MathCAD, AutoCAD, MatLAB, VBA, Microsoft Office, ELISA, Alpha Screen, LDH assay, Cell Culture, Bioreactors, UPLC/HPLC, GC, NOVA, Vi-Cell, Guava, Microplate Reader

Honors

Tau Beta Pi (National Engineering Honor Society), Nominated for the Class of 1898 Prize

Professional Affiliations

American Institute of Chemical Engineers (AIChE) and Society of Women Engineers (SWE) at Tufts

Jenna Lohmann

Current: 80 Bristol Rd • Medford, MA 02155 • cell: (303) 888-8886

Permanent: 9893 E Ida Ave • Greenwood Village, CO 80111 • Jenna.Lohmann@gmail.com

EDUCATION

Tufts University, Medford, MA

- Bachelor of Science, Environmental Engineering expected May 2011
- GPA 3.58, Dean's List spring 2008—present

COURSES

Numerical Methods, Technical Writing, Environmental Chemistry, Groundwater, Fluid Mechanics, Hydrology, Environmental Health and Safety, Epidemiology

SKILLS

Computer Software: Proficient in MS Word, Excel, PowerPoint, ArcGIS, MathCAD, Minitab. Familiar with MATLAB, C++, VBA, AutoCAD

Field Tools: YSI, Sonde, flow meter, vacuum syringe water filter

Languages: Conversational French (spoken and written)

EXPERIENCE

Engineers Without Borders, Tufts Chapter

El Salvador Project Leader (January 2008—present)

- Organize and lead weekly meetings
- Research how to implement water filtration technologies and improve community infrastructure in developing countries
- Constructed part of sand filter system with a team in El Salvador during summer 2008
- Performed water quality tests for total coliforms and turbidity

Center for Engineering Education and Outreach, Medford, MA

Fellow in Student Teacher Outreach Mentorship Program (September 2008—present)

- Teach engineering principles and programming using LEGO to K-8 students
- Developed engineering-based activities and wrote curriculum during summer 2009
- Counselor for students ages 6-13 in programming summer camps

Colorado Department of Public Health and Environment, Glendale, CO

Water Quality Control Intern (June 2010—August 2010)

- Built and managed databases of water quality data
- Analyzed annual stream flow data
- Evaluated water sampling sites for extent of human impact
- Performed physical, chemical, and biological field tests on streams/lakes to assess water quality

ATHLETICS

Tufts Varsity Crew

(September 2007—present)

- Commit average of 15 hours per week in-season to practices and regattas

COURTNEY MARIO

13 Gardner Road, Cambridge MA, 02139
Courtney.Mario@tufts.edu ♦ (978) 846-5095

- OBJECTIVE** Full-time position in Mechanical Engineering, with emphasis on product development and implementation
- EDUCATION** **Tufts University**, Medford, MA
Masters of Science in Mechanical Engineering, expected May 2011
3.67 GPA, Vehicle Lane Detection and Airport Ground Surveillance Research
Bachelor of Science Mechanical Engineering, Economics Minor, May 2009
3.59 GPA, Magna Cum Laude, 2009 Wendell Phillips Award Finalist
James Cook University, Townsville, Queensland, Australia
Studied abroad in Fall 2007
- COURSEWORK** **Courses:**
Digital Control of Dynamic Systems, Numerical Methods, Heat and Mass Transfer, Fluid Mechanics, Dynamics and Vibrations, Machine Design, Economic Development
Projects:
Glider Microphone: designed glider package to test ambient sound for location
Steam Turbine: designed turbine to connect with steam and electric generators
- SKILLS** Computer: MATLAB, SolidWorks, LabVIEW, AutoCAD, Java, Visual Basic, HTML
- EXPERIENCE** **Automated Systems and Robotics Lab** Sep. 2009 - Present
Research Assistant
Conduct research on vision-based automotive lane detection methods
Investigate and model sensors used for airport ground surveillance
Awarded “Best Presentation Award” at Institute of Navigation GNSS 2010
Tufts University Mechanical Engineering Department Sep. 2009 - May 2010
Student-Faculty Liaison, Women in Mechanical Engineering Coordinator
Built supportive environment for student-faculty collaboration
Created and provided academic and career resources for female students
Nerd Girls Solar Car Project Jan. 2007 - Nov. 2009
Project Co-Leader
Coordinated Mechanical and Electrical teams for complete design of car
Delegated individual projects for members on both teams
Actively fundraised money to enter 2010 North American Solar Challenge
Designed frame and rear-wheel assembly of solar car
Textron Summer Scholar – Solar Car Project Summer 2008
Designed complete hydraulic braking and front suspension system
Analyzed aerodynamic and solar panel factors to finalize shell design
Collaborated with composite material manufacturing company
Engineers Without Borders, Tufts Chapter Sep. 2006 - May 2008
Water Storage Group Leader
Designed rainwater collection system that was implemented in Quito, Ecuador
Built prototype at Somerville Growing Center
National Student Partnerships, Tufts Chapter Sep. 2005 - May 2009
Client Service Manager, Volunteer Manager
Provide free case-management services to Somerville community
YMCA Camp Coniston Summers 2004-2006
Overnight Camp Counselor, Landsports Director
- PUBLICATIONS** C. Mario, J. Rife, “Integrity Monitoring of Vision-Based Automotive Lane Detection Methods,” Institute of Navigation GNSS 2010 Conference Proceedings
- ACTIVITIES** **Society of Women Engineers**, Grad. Student Representative Sep. 2005-Present
Academic Resource Center, Latin Tutor, Oct. 2006-May 2008

Jessica Montana

15 Hathaway Circle, Arlington, MA 02476
Phone: 781-799-8626 E-mail: jessica.montana@tufts.edu

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Computer Engineering, expected May 2011

GPA: 3.68, Dean's List every semester, Stern Scholar

RELEVANT COURSES

C++ Data Structures, Digital Electronics, Analog Electronics, Discrete Mathematics, Differential Equations, Microprocessor Architecture, Linear Systems, Statistics, Usability Engineering

SKILLS

Computer: Microsoft Office, Microsoft Visio, C++, HTML, PHP, VHDL, MATLAB, CPU12 assembly

Language: Intermediate Spanish

Other: Technical Writing, Web Design

EXPERIENCE

MIT Lincoln Laboratory, Lexington, MA, June 2010-present

Engineering Intern, Weather Sensing Group

- Developing a web-based simulation and survey to understand pilot behavior during thunderstorms

Volpe Transportation Center, Cambridge, MA, summer 2008, 2009 and December 2008, 2009

Engineering Intern, Maritime Safety and Security Information System (MSSIS)

- Designed, provided content for and coded an internationally used DOT website
- Developed various programs in PHP and C++
- Revised a user's manual for vessel-tracking software
- Received cash awards for exemplary performance on two occasions

Children's Technology Workshop, Arlington and Wellesley, MA, summer 2006

Camp Counselor for iCamp

- Assisted campers ages 7-12 with various technology projects

ACTIVITIES

IEEE, *Student Member*, 2010-present

Eta Kappa Nu, *Corresponding Secretary*, 2009-present

Nerd Girls, *Rules and Safety Officer, member of female engineering design team*, 2008-2010

- Collaborated on electrical system design of a solar race car
- Ensured design followed race specifications and safety standards

ESL Program, *Co-founder and tutor*, Arlington, MA, 2003-2010

- Instructed low-income senior citizens in English as a Second Language
- Recruited other students to participate as instructors

AWARDS AND HONORS

- Tau Beta Pi: engineering honor society, elected 2010
- Lt. Commander R.J. Manning Memorial Prize: Tufts scholarship for "...an engineering undergraduate who is industrious, competent, enthusiastic...", 2010
- Greater Boston Federal Executive Board's Excellence in Government Award for Creativity and Innovation – team award for MSSIS, 2009
- Secretary's Team Award from the US DOT – award for MSSIS, 2009
- Tufts Speaker Design Competition: placed second out of approximately 40 teams, 2008

INTERESTS

Singing, Art, Writing Science-Related Raps and Songs

Miriam Oshinsky

74 Bromfield Road Apt. 1, Somerville, MA 02144
732-672-7125 miriam.oshinsky@tufts.edu

EDUCATION

Tufts University, Medford, MA

Candidate for BS in Chemical Engineering, expected graduation May 2011

GPA 3.40, Dean's List

Relevant course work

- Unit Operations, Chemical and Biological Separations, Chemical and Catalytic Reactor Design, Fluid Mechanics, Heat and Mass Transfer, Chemical and Biological Thermodynamics and Process Calculations, Intro. to Materials Science, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Intro. to Biotechnology Engineering, Multivariable Calculus, Differential Equations, Linear Algebra, Intro. to Electrical Systems

Skills

Computer: Visual Basic for Applications in Excel, MathCad, Matlab, Aspen, C++, AutoCAD, Polymath, Microsoft Office

Laboratory: thin layer, column, and gas chromatography; CO chemisorption; catalyst preparation; soldering

TECHNICAL EXPERIENCE

General Electric Aviation, Lynn, MA, June 2010-present

Environmental Health and Safety Intern

- Developed, automated, and am maintaining a safety QMI (Quick Market Intelligence) workbook
- Orchestrated a change of material for spot welding electrode tips to eliminate the risk posed by Beryllium-copper alloys
- Designing a plan to reduce noise levels on the shop floor

Energy and Catalysis Lab, Chemical and Biological Engineering Dept. Tufts University, Medford, MA, Fall 2009

Undergraduate Researcher

- Designed catalysts to perform decarboxylation and hydrogenation of butyric acid to produce propane and butane
- Prepared platinum catalysts on carbon nanotube and metal oxide supports by incipient wetness impregnation and deposition precipitation
- Characterized catalysts using carbon monoxide chemisorptions and TEM (Transmission Electron Microscopy) imaging
- Analyzed selectivity, activity, and fractional conversion of butyric acid by examining liquid and vapor product streams and performing mass balances on the reactor system

Tyco Telecommunications, Eatontown, NJ, June-August 2009

Quality and Reliability Intern

- Devised and performed reliability tests on components of repeater units for undersea fiber optic cable systems
 - Performed materials research on grades of stainless steel for feed-thru to repeater unit
 - Analyzed samples of fiberglass sleeves that failed high voltage testing
-

WORK EXPERIENCE

Temple B'nai Brith, Somerville, MA, September 2008-present

Sunday School Teacher

- Teach Judaics to a group kindergarten and 1st grade children and Hebrew language to 2nd and 3rd graders

Camp Ramah in the Berkshires, Wingdale, NY, June-August 2007, 2008

Lifeguard and Swim Instructor

- Taught swimming and basic water safety skills to groups of 4-12 campers ages 9 to 15
 - Worked with staff of lifeguards to create and maintain a safe swimming environment
 - Aided counselors with bunk activities and caring for children in both emergency and non-emergency situations
-

ACTIVITIES

Tufts University Hillel

- Served as Co-chair of KOACH, the organization for Conservative Judaism, from April 2008-April 2010

American Institute of Chemical Engineers (AIChE), *student member*

Society of Women Engineers (SWE), *student member*

Meghan A. Pesch

39 Teele Ave, Somerville, Massachusetts 02155
847/363-0284 cell • Meghan.Pesch@gmail.com

EDUCATION

Tufts University, Medford, Massachusetts, *School of Engineering*

Bachelor of Science in Civil Engineering with minor in Economics, expected May, 2011

Cumulative GPA: 3.23/4.0, Deans List

London School of Economics, London, England, July-August, 2009, GPA 4.0

Course on Environmental Economics.

School for International Training, Reykjavik and Akureyri, Iceland, May-July, 2009, GPA 4.0

Courses on renewable energy and technology. Studied various hydroelectric and geothermal energy sources and methods of extraction.

SKILLS

Software: AutoCAD, SAP 2000, Autodesk Inventor, Mathcad, and MATLAB

Programming Language: Visual LISP, Visual Basic

RELEVANT COURSES AND PROJECTS

Courses: Reinforced Concrete Design, Engineering Design with CAD, Advanced Structural Analysis, Environmental Engineering Principles, Introduction to Geotechnical Engineering, Numerical Methods, Thermodynamics, Environmental Geology

Basswood Bridge Project:

- Designed, as part of team, a 20" truss bridge graded on strength, aesthetics and weight
- Built using only Basswood and Elmer's glue as materials
- Analyzed the design with SAP 2000

WORK EXPERIENCE

Sail Martha's Vineyard, Vineyard Haven, Massachusetts

Head Instructor, Summer 2010

- Taught groups of 10 to 15 children how to sail at a beginner level
- Organized logistics of program through the local community center
- Managed and coordinated staff of instructors

Vineyard Haven Yacht Club, Vineyard Haven, Massachusetts

Optimist Race Team Coach & Instructor, Summer 2008

Junior Instructor, Summer 2007

- Instructed groups of 8-12 year olds on how to sail and race Optimist sailboats

ACTIVITIES

Tufts Varsity Sailing Team, 2007 to present

Co-Captain, Fall 2009 to present

American Society for Civil Engineers, Tufts Chapter, 2008 to present

President, Spring 2010 to present; *Social Chair*, 2009

- Assisted in planning for the New England Regional Steel Bridge Competition
- Organized and publicized annual, school-wide trivia competition

ATO of Massachusetts Fraternity, 2008-present

Recruitment Chair, Fall 2009

Tufts Daily Newspaper, 2007-2009

Features Assistant Editor, Fall 2008

Features Writer, 2007-2009

Orientation Leader, Fall 2008

SAILING ACCOMPLISHMENTS

- Qualified for 2008 U.S. Olympic Trials in the Laser Radial Class
- Qualified for, and competed in, 2008 ICSA Women's National Championship

KATIE REIF

56 Upland Rd • Somerville, MA 02144 (Current) • 3112 Devon Rd Durham, NC 27707 (Permanent)
Katie.Reif01@gmail.com • (919) 768-2227

EDUCATION

Tufts University School of Engineering | Medford, MA

- Bachelor of Science in Civil Engineering, expected May, 2011
- GPA: 3.64 (Dean's List all Semesters) | *Cataldo Scholar*

Hong Kong University | Hong Kong | Spring 2010

Carolina Friends School | Durham, NC | Graduated June, 2007

RESEARCH EXPERIENCE

Tufts University Civil Engineering Department | Medford, MA | Summer 2010

Undergraduate Researcher

- Researched methods of incorporating temperature loads into Structural Health Monitoring
-

WORK EXPERIENCE

Tufts University Department of Civil Engineering | Medford, MA | Summer 2010-Present

Homework Grader

- Grade weekly problem sets

Eagle Eye Research Inc. | Durham, NC | Summer 2009

Patent Researcher

- Performed engineering studies, Researched Prior Arts, Produced 3D CAD models
- **Co-Inventor of US Patent Application "Solar Concentrator System for Solar Energy Plants"**, US Patent Application 12889313, Sept 23, 2010.(ownership assigned to Eagle Eye Research, Inc)

Tufts University Police Department | Medford, MA | Fall 2008 – Winter 2009

Assistant Dispatcher

- Answered emergency and non-emergency phone lines
- Dispatched officers via radio and computer programs.

The Fund for Public Interest Research | Chapel Hill, NC | (Summer 2008)

Field Manager

- Organized and trained canvassers, and canvassed for North Carolina Public Interest Research Group and Environment North Carolina
-

COMPUTER SKILLS

MATLab, MathCAD, AutoCAD, AutoLISP, SAP200, SketchUp, Excel, VBA, C++, Photoshop and Microsoft Office

ACTIVITIES

Let's Get Ready | Somerville, MA | Fall 2009 | *Math Coach*

- Coached first generation college bound high school students at Somerville High for in SAT Math, and helped them in their college search and application process.

Nerd Girls | Spring 2009 | Solar Powered Car Project

- Designed rear suspension and preformed other stress analysis

Carolina Inn's 4th Annual Professional Gingerbread House Competition | Second Place | 2006

ANNA C. SIMON

10560 Les Jardins Drive, Dallas, TX 75229
Anna_C.Simon@Tufts.edu • (469) 867-1721

EDUCATION

Tufts University, Medford, Mass. Expected Graduation Date: May 2011
Bachelor of Science in Environmental Engineering, Minor in Mandarin Chinese
GPA 3.49/4.0, Dean's List: All Semesters

The Hockaday School, Dallas, Tex., Class of 2007

GPA 3.7/4.0, Chair of the Technology Board, Headmistress' List all years, Dedication to Chinese Award, Alumnae Liaison

RELEVANT COURSEWORK

Environmental Chemistry, Environmental Engineering Processes, Public Health Engineering, Hazardous Materials Management, Technical Writing, Fluid Mechanics, Hydrology, Geology, Groundwater, Calculus, Numerical Methods, Statistics, Engineering Economics, Mandarin Chinese

RESEARCH EXPERIENCE

Tufts University, Medford, Mass.

Cataldo Fellow, May 2010–Present

- Received a \$5,000 merit-based scholarship from the Tufts Department of Civil and Environmental Engineering.
- Writing a literature review on the toxicity of household cleaning products, under the advisorship of Dr. David Gute.
- Conducting a study concerning the occupational health of immigrants who work as housecleaners in Somerville, Mass.

Shanghai Jiao Tong University, Shanghai, China

Research Assistant, May 2010–August 2010

- Received \$7,500 in NSF funding through the International Research and Education in Engineering (IREE) program.
- Edited research papers and performed experimental research on the thermal comfort of cooling ceilings in the SJTU Institution of Refrigeration and Cryogenics.

Southern Methodist University, Dallas, Tex.

Research Assistant, May 2009–August 2009

- Researched biosand filters in an environmental engineering laboratory.
- Wrote literature reviews, designed experiments, and operated laboratory equipment.
- Co-wrote an abstract that was accepted to the University of Oklahoma WaTER Symposium and was presented in October 2009.

WORK EXPERIENCE

Office for Campus Life, Tufts University, Medford, Mass.

Campus Center Manager, August 2009–May 2009, *Information Booth Attendant*, August 2008–May 2009

- Trusted to open and close the building. Ran cash register, computer. Provided excellent customer service.
- Won “Boother of the Year” Award in 2009 and “Manager of the Year” Award in 2010.

The Toy Maven, Dallas, Tex.

Assistant Manager, January 2008–January 2010, Seasonally

Supervised staff, coordinated weekly schedules, compiled and briefed storeowners on daily sales reports.

LEADERSHIP ACTIVITIES

Society of Women Engineers SWE Tufts Chapter September 2007–Present

President 2010–Present, *Vice-president* 2009–2010, *Webmaster* 2008–2010, *Freshman Representative* 2007–2008

Planned the first ever “Date an Engineer” event. Advised underclassmen both academically and personally.

Tufts Traveler Magazine

Co-editor-in-chief 2010–Present, *Webmaster* 2008–Present, *Contributing Photographer and Writer* 2007–Present

Office of Undergraduate Orientation

Orientation Leader May 2010–Present

Tufts Energy Forum

Graphic Artist May 2009–May 2010

Nerd Girls, Outreach group founded at Tufts University that promotes women's involvement in STEM fields

Webmaster January 2008–Present

SKILLS

Computer Software: MS Office Suite, Adobe Photoshop, Adobe InDesign, MATLAB, Mathcad

Languages: Intermediate Mandarin Chinese and Intermediate Spanish

KELLY K. SMITH

4181 DILLINGERSVILLE RD · ZIONSVILLE, PA 18092
CELL (484) 505-0680 · SMITH.KELLY23@GMAIL.COM

EDUCATION

Tufts University, Medford, MA.
Bachelor of Science in Environmental Engineering, expected May 2011
GPA: 3.76, Dean's List every semester

RELEVANT COURSEWORK

Environmental Chemistry, Site Remediation, Environmental Engineering Principles, Engineering Probability and Statistics, Physical Chemistry, Environmental Geology, Fluid Mechanics, Statics and Dynamics, Health and Risk Assessment, Environment and Technology, Engineering Graphics and CAD

COMPUTER SKILLS

Software: Microsoft Office, MATLAB, Minitab, MathCAD, Adobe Acrobat, limited GIS and AutoCAD
Programming: Visual Basic, limited C and C++ (as used in MATLAB)

RESEARCH EXPERIENCE

Tufts Univ. Civil and Environmental Eng. Dept. Medford, MA
Lab Assistant July 2010–Present

- Evaluated nitrification as a potential method for degrading pharmaceuticals in municipal wastewater effluent
- Balanced responsibilities including the maintenance of a sequencing batch reactor and the design and implementation of controlled batch experiments

Univ. of Arizona Chemical and Environmental Eng. Dept. Tucson, AZ
Research Experience for Undergraduates Participant May–Aug. 2010

- Selected as one of eleven participants for a competitive research opportunity in the field of chemical and environmental engineering
- Investigated bacteria as a means of collecting and recycling nanoparticles from semiconductor industry wastewater

WORK EXPERIENCE

Alvin H. Butz, Inc. Construction Management Allentown, PA
Engineering Clerk/Intern May–Sept. 2008

- Used Excel to calculate project estimates and to format contact lists and material submittal logs
- Drafted LEED submittal forms for a LEED Silver elementary school project
- Managed correspondence among contractors, project managers, and clients

Clean Water Action Allentown, PA
Environmental Canvasser June–Dec. 2007

- Communicated environmental issues to individuals with no prior knowledge of science or public policy
- Encouraged communities to have an active role in local and national lawmaking

HONORS AND AWARDS

Tufts Environmental Engineering Scholarship Recipient, 2010
Romance Language Department Award for Excellence in Spanish, 2009

ATHLETICS

Tufts University Club Rugby Fall 2008–2010
Team Treasurer

- Dedicated eleven hours per week to training and competition

Abigail Spencer

41 Conwell Avenue • Somerville, MA • 02144 • (301) 412-5145
13708 Sloan Street • Rockville, MD 20853 • abigail.spencer@tufts.edu

EDUCATION	Tufts University , Medford, MA Bachelor of Science in Mechanical Engineering expected May 2011 GPA 3.45, Dean's List every semester
SKILLS	Software: Matlab, LabVIEW, EZCAM, SolidWorks, MS Office Programming Languages: Visual Basic, C++ Languages: working knowledge of French
RELEVANT COURSES	Biomaterials, Instruments and Experiments, Engineering Materials Thermodynamics, Heat Transfer, Fluid Mechanics, Differential Equations, Machine Design, Digital Controls of Dynamic Systems
WORK EXPERIENCE	NMT Medical Boston, MA <i>Research and Development Intern</i> May – Aug. 2010 <ul style="list-style-type: none">• Design and prototype bioresorbable Class III medical devices for:<ul style="list-style-type: none">○ atrial septal defect (ASD) closure○ left atrial appendage (LAA) closure• Test and perfect current bioresorbable patent foramen ovale (PFO) closure device design• Perform materials testing and quality assurance• Maintain and update Design History Files Raytheon UTD Springfield, VA <i>Mechanical Engineering Intern</i> May – Aug. 2009 <ul style="list-style-type: none">• Perform materials and soil testing; create technical documents from results• Research, design, and implement long term salt water corrosion test procedure and set-up• Create drawings, parts, and assemblies in SolidWorks• Assist with manufacture of engineering product prototypes Bray Laboratory Machine Shop Medford, MA <i>Machine Shop Technician</i> March 2009 – Present <ul style="list-style-type: none">• Program and run CNC machines• Perform manual machining on mills and lathes
ACADEMIC EXPERIENCE	Nerd Girls Solar Car Project Sept. 2008 – May 2009 <i>Suspension & Braking Tech Leader</i> <ul style="list-style-type: none">• Develop and assemble solar car's suspension mechanisms• Design braking system and integrate with front suspension• Coordinate with faculty, and university machine shop
LEADERSHIP	Society of Women Engineers – <i>Special Events Coordinator</i> Tufts University Admissions Office – <i>Tour Guide</i> Tufts University Kids Day '09, '10, '11 – <i>Volunteer Coordinator</i> Undergraduate Orientation – <i>Leader for 2012 & 2013 Classes</i>

Stephanie L. Tam

41 Oak Street E ■ Braintree, MA 02184 ■ 781 413 7191 ■ Stephanie.L.Tam@gmail.com

Objective

A full time entry level job starting January 2011 in engineering research for materials, aerospace and/or controls.

Computer Skills:

MS Word, Excel, PowerPoint, Access, Outlook, Visio; Windows XP/ Vista/ 7 Macintosh Systems

AutoCAD, Solidworks Mathematica, MathCAD, Matlab with Simulink, and adequate at LabVIEW

Programming: C++, Visual Basic

Lab Skills:

HPLC, NMR, Autoclave, Gas Chromatography, Cell Culture, Soldering, Centrifuge, Micropipets, Preparing Mass/ Volume Solutions, % Solutions etc.

Interests:

- Controls
- Acoustics
- Instrument Testing
- Materials

Education

- **Tufts University – Medford, MA**
 - **Majors:** Mechanical and Biomedical Engineer Expected B.S. Feb 2011
 - **GPA:** 3.7/4.0, Dean's List every semester

Experience

- **Tufts Chemistry Department, Medford MA**
 - Stockroom Assistant, Sept. 2007-Sept 2008
Inventory, cleaning hardware and glassware manually or by autoclave
 - Evening Supervisor/Organic Chemistry T.A., Sept 2008-Present
Made necessary chemical solutions for laboratories, addressed nighttime chemical mishaps and taught laboratories, oversaw chemical stock, etc.
- **Tufts University Core Facility, Boston MA**
 - Lab Technician, Jan. 2009-Sept. 2009
Trained to synthesize custom oligonucleotides, peptides, and proteins, operated automated sequencing of DNA, evaluated HPLC and MS with Nanospray data to identify proteins
- **South Bay Mental Health Center, Brockton MA**
 - EDP Clerk, Summer 2007
Summer internship involved in coordinating incoming calls, data entry, Medicare/Medicaid/other billing processes, organizing patient transportation with different companies

Activities

- **Tufts ASME**, Student Representative on Chapter Exec. Board, 2007-Present
- **Society of Women Engineers**, 2007-Present
- **Giving Camp Volunteer**, 2007-Present
- **Red Cross Volunteer**, 2004-Present

Senior Design Project

- Mechanical Testing on a Proposed Method of Epilepsy Treatment involving Adenosine Treated Human Mesenchymal Stem Cells in Silk Scaffold

Alyssa Trevelyan
alyssa.trevelyan@tufts.edu

109 North St • Medford, MA 02155 • Home: (415) 400-5204 • Cell: (650) 793-0819

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Computer Science, expected May 2011

Overall GPA of 3.64, 3.9 within major

Honors: Dean's List every semester

Université de Poitiers, Middlebury College Program, Poitiers, France

Study Abroad, January – May 2010

RELEVANT COURSEWORK

Computer Science: Algorithms, Operating Systems, Data Structures, Computer Architecture, Programming Languages, Computation Theory, Logic, Image Synthesis, Machine Learning

Mathematics: Discrete Mathematics, Multivariable Calculus, Honors Linear Algebra, Real Analysis, Abstract Algebra

SKILLS

Computer Languages: C, Python, C++, Lua, ML, Assembly, Scheme, Unix Shell Scripting

Operating Systems: Unix/Linux, Windows, Macintosh

Natural Languages: Fluent French (TCF Level B2), Conversational Japanese

WORK EXPERIENCE

MITRE Corporation, Bedford, MA

(June – August 2010)

Summer Technical

Wrote Python scripts to create a Web Map Service from a large, constantly updating set of weather images, using Geoserver, an open source WMS implementation

Tested and gave feedback on other projects

Tufts University, Medford, MA

(September – December 2009)

Teaching Assistant – Machine Structure and Assembly Language Programming

Held office hours and assisted with labs

Tufts University, Medford, MA

(June – August 2009)

Research Assistant

Designed and prototyped in ML a program for the automatic testing of student-submitted C/C++ code, which defines a language for professors to set requirements for an assignment, outputs these requirements in natural language as HTML, and generates tests based on the requirements

Stanford University, Stanford, CA

(June – August 2008)

Swain Library - Student Assistant

Assisted with daily operation of the library, updated documentation, and moved collections

PROJECTS

Clean Cities: Currently working on a team of 3 to build a web application for the Imagine Cup 2011 which aims to help reduce litter by providing a map of user-submitted photos of litter around the city of Boston, in partnership with the non-profit THREElittleSTEPS.

Ray Tracing: With a partner, wrote a ray tracing program in C++ to render images from arbitrary user-defined geometric objects, camera position, and light sources using Phong shading and allowing for both hard and soft shadows as well as reflections. It was built from the ground up without using any existing libraries or APIs.

INTERESTS & ACTIVITIES

Tufts ACM-W: *President Fall 2010 – present; Member Fall 2007 – present*

Tufts Dance Collective: *Choreographer Fall 2009; Member Spring 2008 – present*

Sarabande Dance Ensemble: *Webmaster Fall 2008 – Fall 2009; Member Spring 2008 - present*

Lia Tucker

74 Bromfield Road, Apt. 1 • Somerville, MA 02144 • lia.tucker@tufts.edu
217 Storer Avenue • New Rochelle, NY 10801 • (914) 275-6477

EDUCATION:

Tufts University, Medford MA

B.S. in Chemical and Biological Engineering, expected graduation May 2011

Cumulative GPA: 3.31, Dean's List Fall 2007, Fall 2009, Spring 2010

RELEVANT COURSES:

Biomaterials & Tissue Engineering, Thermodynamics & Process Calculations, Materials Science, Fluid Mechanics, Heat & Mass Transfer, Reactor Design, Engineering Graphics & CAD, Introduction to Computing in Engineering, Physical Chemistry, Organic Chemistry, Applied Mathematics & Software

WORK EXPERIENCE:

Tufts University Office of Institutional Research and Evaluation, Medford, MA

Research Assistant, June 2010 – August 2010

- Organized and categorized responses to Tufts University entrance and exit surveys

Tufts University Chemistry Department, Medford, MA

Evening Supervisor, January 2010 – present

- Prepare solutions to be used in chemistry student laboratories
- On call in case of injury or other emergency

RESEARCH EXPERIENCE:

David Kaplan Lab at Tufts University, Medford, MA

Undergraduate Researcher, February 2010 – present

- Test cell viability on different adhesives and mechanically measure the relative adhesive strengths
- Culture human cells on silk sponges in the attempt to create enclosed microchannels

David Walt HHMI Lab at Tufts University, Medford, MA

Researcher, Summer 2009

- Used PCR and biosensors to magnify and identify oral bacteria in saliva samples to create an experiment to bring to a high school biology laboratory
- Designed primer and probe combinations for oral microbes using PubMed and Array Designer

David Walt HHMI Lab at Tufts University, Medford, MA

Volunteer, January 2009 - May 2009

- Used LEGO molds to create PDMS sheets with inset wells
- Tested ability of DNA-tailed microspheres to adhere to PDMS
- Presented weekly research updates using PowerPoint

COMPUTER AND LABORATORY SKILLS:

Computer: AutoCAD, Mathcad, Matlab, Microsoft Office, Array Designer 4

Laboratory: PCR, Gel Electrophoresis, Biosensor Use, MTT Assay, MSC and MVEC Tissue Culture

EXTRACURRICULAR ACTIVITIES:

Tufts University Wind Ensemble, *Member*, Fall 2007 - present

American Institute of Chemical Engineering, *Executive Board Member*, Spring 2010 - present

Tufts Dance Collective, *Member*, Fall 2007 - present

KAREN WICKERT

14 Professors Row
Medford, MA 02155

Phone: (617) 910.0708
Email: karen.wickert@tufts.edu

- Objective** To obtain a position with a focus on programming, research, and/or design.
- Education** **TUFTS UNIVERSITY** [GPA 3.0/4.0] **MEDFORD, MA**
BS in Mechanical Engineering, ABET-accredited. *anticipated May 2011*
Minor in Musical Instrument Engineering.
Dean's List *Fall 2009, Spring 2010*
Relevant Coursework:
 - Differential Equations, CAD* , Fuel Cells, Biological Systems Engineering, Electrical Systems*, Mechanics, Dynamics and Vibrations, Engineering Materials, Mechanical Design and Fabrication*, Machine Design, Systems Design*, Instruments and Experiments*, Thermodynamics, Heat Transfer, Fluid Mechanics, Acoustics, C++ Abstract Data Structures*, Senior Design Project * includes related laboratory work
- Skills** *Shop:* CNC, Lathe, Milling
Operating Systems: Windows XP, Windows 7, Mac OS X, Linux (Ubuntu, Red Hat)
Software: AutoCAD, SolidWorks, LabVIEW, MathCAD, MATLAB
Programming: C++, Python, Java, VBA, PHP, MySQL, CSS, XHTML, HTML, JavaScript
Languages: French (proficient), Japanese (some)
- Experience** **CENTER FOR ENGINEERING EDUCATION AND OUTREACH** **MEDFORD, MA**
Associate Editor *March 2008 - present*
 - Assemble, program, and test LEGO Robotics
 - Compile and publish curriculum tailored for educational use
 - Develop backend and frontend web content for LEGOengineering.com
 - Provide technical support for users of LEGO Robotics and related hardware and software
 - Develop help files and example programs for NI LabVIEW Education Edition
THE ECHO NEST CORPORATION **SOMERVILLE, MA**
Quality Assurance / Marketing Intern *May - June 2010*
 - Tested code and researched online to verify programmatically gathered music information
 - Conveyed results and the work process to help developers improve the API**Junior Engineer Intern** *July - August 2010*
 - Developed code around a Python API that processes music-oriented text and audio data
 - Supported automated testing, scripting, and QA for web crawling and audio analysis
3M – CORPORATE RESEARCH MATERIALS LABORATORY **SAINT PAUL, MN**
Technical Aide *June - August 2007*
 - Performed chemical laboratory experiments
 - Prepared and executed tests on procured material samples
 - Analyzed and improved upon experimental technique while maintaining documentation
- Volunteer Experience** **CRAFTS CENTER** **MEDFORD, MA**
Manager, Signatory, Monitor and Workshop Instructor *2008 – present*
 - Budget and allocate funds, manage areas of spending
 - Upkeep inventory, order and track incoming equipment and supplies
 - Organize cleanup efforts, volunteer shifts, hands-on workshops, and special events
- Awards** International Baccalaureate Diploma Recipient *Summer 2007*
National Merit Scholarship Finalist *2006 - 2007*
Girl Scout Gold Award *May 2006*

JORDYN M. WOLFAND

80 BRISTOL ROAD, APT. 2, MEDFORD, MA 02155
EMAIL: JWOLFAND@GMAIL.COM
PHONE: 301-613-8181

EDUCATION

Tufts University (Expected graduation: May 2011)

- Bachelor of Science in Environmental Engineering (BSEVE)
- GPA: 3.86 | Honors: Dean's List all semesters, member of Tau Beta Pi
- Coursework: Differential Equations, Fluid Mechanics, Hydrology, Organic Chemistry, Technical Writing, Statistics

Montgomery Blair High School, Math, Science and Computer Science Magnet Program (2003-2007)

- GPA: 3.83 Weighted: 4.62

EXPERIENCE

Center for Engineering Education Outreach, Tufts University, Medford, Mass.

Outreach Mentor and Executive Board Member, September 2007 – Present

- Teaching local K-12 students engineering and simple programming concepts using RoboLab and NXT-G
- Working as part of the *Student Outreach Mentorship Program*

Environmental Engineering Department, Tufts University, Medford, Mass.

Undergraduate Researcher, May 2010 – Present

- Investigating the link between polychlorinated-biphenyl (PCB) exposure and Parkinson's disease using GC-MS
- Working under Prof. Kurt Pennell for Tufts Summer Scholars, Cataldo Scholarship, and Senior Honors Thesis

Water Environment Federation, Alexandria, Va.

Stockholm Junior Water Prize Intern, May – August 2009

- Planned and provided onsite support for the national U.S. Stockholm Junior Water Prize competition
- Edited for the student journal *For the Future, From the Future: Journal of the U.S. SJWP*

North Country Camps, Keeseville, N.Y.

Course Instructor, Counselor, June – August 2008

- Certified Life Guard, Wilderness First Aid, and CPR
- Created, maintained, and instructed a high ropes challenge course
- Lead activities including mountaineering, rock-climbing, kayaking, canoeing, and backpacking

Aquatic Pathobiology Laboratory, University of Maryland, College Park, Md.

Research Intern, May – December 2006

- Designed and conducted a research project examining the effects of the active ingredient in oral contraceptives on the mating behaviors of fathead minnows

PROFESSIONAL AFFILIATIONS

- Tau Beta Pi
- Society of Women Engineers
- American Society for Engineering Education
- Water Environment Federation

AWARDS / CERTIFICATIONS

- Tufts Summer Scholar (2010)
- Tufts Department of Civil and Environmental Engineering Cataldo Award (2010)
- Howard Sample Prize in Physics (2010)
- U.S. Stockholm Junior Water Prize – Water Environment Federation MD State Winner and National Finalist (2007)
- Adirondack 46er #6390 – Summited all 46 major peaks in N.Y. (2005)

PUBLICATIONS

- Wolfand, Jordyn. "Active Ingredient in Oral Contraceptives Alters Male Competitive Courtship Behaviors and Secondary Sexual Characteristics in Fathead Minnows", *Journal of the U.S. Stockholm Junior Water Prize* (2007): 42-53. doi: 10.2175/SJWP(2006)1:42

ACTIVITIES

- Tufts Women's Varsity Crew
- Tufts Engineers Without Borders

- BSEVE Program Review Board

COMPUTER SKILLS

- Languages: Java, C++, HTML, Basic, Stella
- Applications: Microsoft Office, Mathcad, MATLAB, Adobe Photoshop, AutoCAD