

Timothy Hickey
Computer Science

Instructional Activities

Term	Course Number	Course Description	Enrollment
Summer 2008	COSI 2A 1	INTRO TO COMPUTERS	9
Fall 2008	COSI 210A 1	INDEPENDENT STUDY	1
Fall 2008	COSI 29A 1	DISCRETE STRUCTURES	19
Fall 2008	COSI 300A 1	MASTERS PROJECT	1
Fall 2008	COSI 400D 1	DISSERTATION RESEARCH	2
Fall 2008	COSI 98A 1	INDEPENDENT STUDY	2
Fall 2008	COSI 99D 1	SENIOR RESEARCH	1
Fall 2008	COSI 93A 1	RESEARCH INTERNSHIP & ANALYSIS	2
Spring 2009	COSI 200B 1	READINGS	1
Spring 2009	COSI 210A 1	INDEPENDENT STUDY	1
Spring 2009	COSI 2A 1	INTRO TO COMPUTERS	90
Spring 2009	COSI 300B 1	MASTERS PROJECT	1
Spring 2009	COSI 400D 1	DISSERTATION RESEARCH	2
Spring 2009	COSI 98B 1	INDEPENDENT STUDY	8
Spring 2009	COSI 99D 1	SENIOR RESEARCH	1
Spring 2009	INET 98B 1	INDEPENDENT STUDY	1
Spring 2009	TYP 1A 1	TYP: Quantitative Reasoning I	14
Spring 2009	USEM 2C 1	PHYSICAL SCIENCE FRONTIERS	8

Teaching innovations:

Reading courses, theses, dissertations, research projects (undergraduate and graduate):

I was involved in several independent studies. In one of them, two students worked on developing a web-based interface to an internship evaluation database for Brandeis students. They learned quite a bit about secure webprogramming and also built a useful piece of code. They will sign up for another independent study next semester to bring that code from development to full production use and in the process run user studies and analyze its use patterns. This will track the full path of a very useful piece of software (that could be of great value to all Brandeis students in the future). Another example, is an INET internship where a student applied the skills she learned in several courses to creating a high tech website for her A Cappella singing group. Another example was a 2 person independent study in which studied the implementation of linear algebra libraries in Python, again building a potentially useful tool while learning about some fundamental concepts. I also advised a senior honors thesis of a student working with a group at the Harvard School of Public Health building models of arthritis progression to study the consequence of treatment policies.

Advising and Mentoring (undergraduate advisees, graduate advisees, teaching fellows, other interactions, office hours):

First Year Students: 45

Other Undergraduates: 2

My office hours were Mon 11-12, Wed 2-3, Thu 10-11

I organized meetings with our majors several times during the year with help of the UDRs

Publications, Research and Artistic Creations

Book Chapter(s)

Langton, John and Gifford, Elizabeth and Hickey, Timothy. "Visualization and Interactive Exploration of High Dimensional Datasets." Applications of Computational Intelligence in Biology: Current Trends and Open Problems. vol. 122 Ed. Smolinski, Tomasz G.; Milanova, Mariofanna G.; Hassanien, Aboul-Ella. Springer, 2008. pp 231-255.

Conference Paper(s)

Granville, Kenroy and Hickey, Timothy J. "CollabEd: a Platform for Collaboratizing Existing Editors." International Conference on Mobile, Hybrid, and On-line Learning, Cancun, Mexico. IEEE, Feb 1-7, 2009.

Ongoing Work

I'm working on scientific visualization with a recent PhD (John Langton) and also working in collaborative editing with my current PhD Kenroy Granville. We hope to get a couple of papers submitted this summer. I'm also working with Dan Perlman on web-based interfaces to multi-media libraries with extensive meta-data and we will be submitting a grant proposal in late May on this topic.

Service

Arts and Sciences

From: 09/01/2006 Through:08/31/2009 Representative

Other

Diversity Representative for Faculty Searches

From: 09/01/2007 Through:08/31/2009 Member

School Council

Science Council member

From: 02/01/2009 Through:05/01/2009 Member

Other

CARS committee

From: 02/01/2009 Through:06/01/2010 Co-Chair

Other

Justice Brandeis Semester Committee

Department Activity

From: 09/01/2002 Through:05/31/2011 Chair

Other

Department of Computer Science

From: 01/01/2000 Through:08/30/2009 Member

Undergraduate Advising Head

Interdepartmental Programs

From: 07/01/2001 Through:08/31/2009 Chair

Other

Internet Studies

From: 01/01/2007 Through:08/30/2009 Member

Other

Film Studies Faculty Committee

University Activity

From: 09/01/2003 Through:05/31/2009 Member

University Advisory Council

Appt extended from 2-yr to 4-yr for staggering term purposes

From: 07/01/2006 Through: 06/30/2009 Member
Library and Technology Advisory Committee

From: 04/01/2009 Through: 06/01/2009 Member
Other
University Homepage committee

From: 09/01/2007 Through: 07/01/2008 Chair
Other
Search Committee for new CIO

From: 09/01/2004 Through: 06/30/2009 Member
Other
Davis Committee on Experiential Learning

Other Service

Grant Activity

Grant Proposals

Title: Interactive Visualization and Analysis of Massive Datasets

Role: Principal Investigator **Sponsor:** NSF

Total Cost: \$ 274,627 **Start Date:** 06/01/2009 **End Date:** 08/31/2012

Title: Grid Computational Steering

Role: Principal Investigator **Sponsor:** NSF

Total Cost: \$ 369,427 **Start Date:** 08/01/2009 **End Date:** 07/31/2012

Grant Awards

Honors and Awards

Title	From	Thru
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Intellectual Property

Intellectual Property

Professional Activities Outside the University

Professional activities (delegate, invited presenter, organizer, moderator, etc. at academic conferences, lectures, speeches and presentations) given outside the university.

I created and chaired the New England Computer Science Chairs committee which consists of the chairs of Computer Science departments in New England (about a dozen currently come to regular meetings).

Our first joint activity was creating the first annual New England Undergraduate Computing Symposium in which students from a dozen CS departments in the region presented posters and talks at an all day event at Wellesley college cosponsored by the NSF-funded Empowering Leadership Alliance...

Editorial work, reviews of publications, and membership on selection committees for national fellowship and grant programs

Society memberships

Work Outside the University

Courses taught at other institutions.

Employment and/or consultant arrangements

Management of fiduciary activities in which you have a role as an officer, director, trustee, supervisor, or founder with respect to any corporation, organization, or group

Intellectual property which has been developed by you outside of Brandeis University

Other

Additional Comments