The Sentinel: September 21, 2020
News and events happening in the Computer Science Department

CS Tea Tea Talk -- What is it?
CS Tea is our weekly Thursday afternoon (4:00-5:00PM) get-together to spend time together, to share our interest in computer science, and to learn interesting new things. Sometimes we'll have a guest speaker, sometimes we'll have a panel of Carleton faculty or students, and sometimes we'll just get together to chat.

CS Tea is taking place on Zoom this term. **Sign up for the cs-interest mailing list** to receive the link and **join us via Zoom**.

9/24 - CS Tea: Bad News: AI-Assisted Immersive Theater with James Ryan, Visiting Professor in the Carleton CS department. *Bad News* is an award-winning installation work that combines novel AI technologies and live improvisational acting into an emotionally charged interactive experience whose story and setting is uniquely generated by a computer program. Each 45-minute performance is an original work of immersive theater, produced for an audience of one by a human-and-machine troupe. Since its inception in 2015, *Bad News* has been mounted internationally, at venues including the San Francisco Museum of Modern Art, Slamdance Film Festival, and IndieCade, where it won the 2016 Audience Choice award. Writing about the piece for Rolling Stone, Steven T. Wright remarked, "This marvel of procedural performance can only be played by a lucky few, and that's a crying shame." In this tea talk, I'll present an overview of the *Bad News* project, with special attention to the underlying technologies that make it possible

10/1 CS Tea: Student research
Carleton students Kaeden Berg, Oliver Calder, and Molly Kammann will speak about their experiences doing summer research with CS faculty.

10/8 CS Tea: Energy-efficient and Reliable Computing Across the hardware/Software Stack with Professor Iris Bahar, Professor of Engineering and Professor of Computer Science at Brown University
Prof. Bahar has been working on the design of computer systems for the past 3 decades. Her research focuses on developing new approaches to reduce power dissipation and improve reliability in high-performance processors, specialized embedded systems and computing systems designed with emerging technologies. Her recent interests have led her to consider design of machine

learning and robotic systems, and how they can benefit from energy-efficient design techniques.

Computer Science Summer 2021 Off-Campus Study Abroad Program
Message from Professor David Liben-Nowell

I'm happy to announce that I'll be leading *History of Computing in England* during Summer 2021. The [program](#) is centered on the History of Computing, with particular focus on the 19th-century (Ada Lovelace! Charles Babbage!) and the mid-20th century (Alan Turing!), but also looking at plenty of other characters and milestones. We'll be based in England (mostly Cambridge, plus significant time in London and Manchester), and travel to France and Germany. Join in on [an upcoming Zoom information session](#) on Wednesday, September 30th, at 4:30pm. There's an "early decision" deadline for program applications on October 16th; the "regular decision" deadline will be in January 2021. (The OCS office is still finalizing the application, but it will be available soon.)

CS Department Computer Lab Photos

Just in case you haven't visited the new [CS labs](#), check out the pics posted on our website for a peek at our space. Of course we have signage at all the stations. Please be sure to follow the safe guidelines posted for sanitizing work stations before AND after use. These are high touch areas and we want to be safe by following the posted procedures.

OPPORTUNITIES:

Presenting: CarlTech

Carleton students Maanya Goenka and Luisa Escosteguy have put together a list of [tech opportunities (CarlTech)](#). These are opportunities that are not-well publicized and include CS and Finance exploratory/diversity programs: undergraduate internships, interview prep resources, and mentorship programs. Click on the link above and check it out!

Carletonian Web Editor Position

The *Carletonian* student-run newspaper is recruiting a web editor! We're looking for someone to help maintain and develop our Wordpress [website](#). This is a great opportunity to put your technical skills to work on campus and contribute to student journalism. The time commitment is low – about three hours per week at most, with many weeks being significantly less. Responsibilities include working with the editors-in-chief and managing editor to implement new features on the website. Please contact Amelia Broman (bromana@) and Sam Kwait-Spitzer (kwaits@) for an application if you're interested.

Carleton Career Center Computer Science Technical Interview Workshop

What is a technical interview really like? Find out more about IT recruiting from the perspective of an IT recruiter. [Sign up now](#) for this virtual event. This event is sponsored by the Carleton College Career Center.

Date: Thursday, Sept. 24
Time: 7:00 pm

Hack4Impact Are you interested in CS and want to improve your coding skills? Are you also a Carl who's passionate about social activism? Then Carleton's new chapter of Hack4Impact (H4I), a 501c(3) organization that connects student software developers to nonprofits and other socially responsible businesses to create tools for social change, is the club for you! Existing H4I chapters have worked with at least 19 organizations, completing 24 different projects comprising over 400,000 lines of code. Notable projects include the Asylum Connect Catalog, a dynamic, centralized database that connects LGTBQ+ asylum seekers to service providers in the US (2016) and the Philly Food Finder, a map based web app to find local food resources in Philadelphia (2014). If you are interested or would like to be part of the Carleton chapter, let us know by emailing either Aishwarya (varmaa@carleton.edu) or Nicole (bindern@carleton.edu). While there will be lots of learning opportunities, we recommend that you have at least taken CS 111 or the equivalent. Thanks!

MN Tech Connect Conference An Interactive Online Conference for the Minnesota Tech Community -- Tech Connect is a half-day fully interactive online event that delivers the awesome learning and networking opportunities from MnTech's in-person events to your desktop. The conference includes innovative examples of Minnesota companies applying technology to power tech-enabled business models, 1-1 networking, small group discussions, and opportunities to connect with sponsors.
Date: Wednesday, Sept. 23
Time: 8:30 am. (3 hrs, 30 min)
Sponsored by: Carleton Career Center
Register online

Broadstreet Internship Opportunity The COVID-19 pandemic is a globally historic event. **If you have wondering how you can help,** please consider joining The COVID-19 Data Project. The COVID-19 Data Project is organized by a dedicated, volunteer group of statisticians, public health professionals, physicians, and software engineers. The team is currently looking for interns in **data** and **design**. The project is backed by BroadStreet, a data and software company for social good.

Anyone with a love of data (and/or design!) is welcome to apply!
Learn more at https://learn.broadstreet.io/internships/

The Redistricting Reform Project is a non-profit non-partisan group currently gearing up to help people fight the partisan gerrymandering that will take place over the next couple of years when every state redistricts after the census is done. They are designing web tools, training materials, and databases (The redistricting Data Hub) so that anyone can design a redistricting of their state---and understand what their state legislatures are up to. The leadership team (including Carleton grad John O'Neil) has experience battling overly partisan gerrymanders. RRP just got a large grant to support

the work and they're hiring 5-6 people immediately. No redistricting knowledge is necessary; they'll train people. They want people who can understand technical material and who have oral, written, and graphical communication skills. For a couple of the positions they would like programming experience.

Interested? See RRP's hiring page: https://www.redistrictingdatahub.org/hiring.html

One-day Cyber-Security workshop for undergraduate women in computer science. College of the Holy Cross is planning to host a free online workshop. This workshop will take place on a weekend in late October/early November. It will be entirely online over the course of about 6 hours, with a mix of video (e.g. zoom) and live peer/group chat (e.g. using discord), with time built in for lunch, breaks and socializing. The hands-on workshop would focus on reverse engineering and exploitation, starting with the fundamentals of software, software vulnerabilities, and how to leverage those vulnerabilities to gain control of software. The technical content would be somewhat self-paced, with group work encouraged, so participating students need not have extensive CS background or any previous experience with cyber-security---only some basic programming skills (e.g. completion of a CS1 course in Java, C, C++, or similar) and some exposure to a command-line terminal. Besides getting a taste of cyber-security, we aim for this to be a fun event where students can make connections with their peers and get to meet and talk with alumni and experts in the field. If interested contact Kevin Walsh kwalsh@holycross.edu

Bit by Bit – recently founded by two recent Dartmouth grads, is a company to help students prepare for software engineering internship interviews. Key goals for Bit by Bit include:
1. Review key technical concepts
2. Participate in a mock interview on different technical topics each week
3. Learn how to communicate their thought processes during interviews
4. Work with each of us to polish their LinkedIn, GitHub, Resume, and Personal Website
5. Practice behavioral questions independently and in group settings
6. Create a plan to maximize their networking success

Reminder - Important Dates

Sept. 24: CS Tea: Bad News: AI-Assisted Immersive Theater with James Ryan, Visiting Professor in the Carleton CS department. 4:00pm via Zoom
Sept. 24: Carleton Career Center Computer Science Technical Interview Workshop. RSVP via Handshake.
Sept. 30: Upcoming Zoom information session for Summer 2021 study abroad program History of Computing in England
Oct.1: CS Tea Talk: Summer 2020 CS Student Research Experiences