



**The Sentinel: April 4, 2022**

**News and events happening in the [Computer Science Department](#)**

### **CS Tea Talk:**

**April 7:** Featuring Iris Bahar, from the Colorado School of Mines: 4-5pm Olin 310  
"Energy-efficient, Reliable (&Fun!) Computing Across the Hardware/Software Stack. Join us for this in-person talk with Iris Bahar, who will be talking about designing computational hardware that is both reliable and energy efficient -- along with talking a bit about a new interdisciplinary program that involves art, CS, and engineering at Colorado School of Mines, where she teaches. Prof. Iris 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. In this talk, Prof. Bahar will give an overview of some of her current research projects covering memory design techniques using near-memory-processing, and efficient use of machine learning techniques for robust scene perception. She will also talk about her creation of new interdisciplinary courses that mix art, design, engineering, and computing. Finally, she will conclude with her thoughts on graduate school. She is happy to make this an interactive talk so feel free to come ready to ask questions.

**April 14: Bruce Schneier: Technology, Security, and Society**

**Bruce Schneier** is an internationally renowned security technologist, called a "security guru" by The Economist. He is the author of 14 books -- including the New York Times best-seller *Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World* -- as well as hundreds of articles, essays, and academic papers. His influential newsletter "Crypto-Gram" and blog "Schneier on Security" are read by over 250,000 people. Schneier is a fellow at the Berkman Center for Internet and Society at Harvard University, a fellow at the Belfer Center at Harvard's Kennedy School of Government, and a board member of the Electronic Frontier Foundation. He is also a special advisor to IBM Security and the Chief Technology Officer of Resilient. This event is sponsored by the Humanities Center; Computer Science; the Wolff Endowed Lectureship in Science, Technology, and Public Policy; and The Andrew W. Mellon Foundation.

**NOTE:** This talk will take place in Weitz Cinema, 4:00-5:00pm

## Other Department News:

### Carleton to Compete at ICPC National Championship

Back on February 26, 14 Carleton students competed in the International Collegiate Programming Competition (ICPC) North Central North American regional competition. Fueled by string cheese and cookies, the members of Carleton's four teams spent five hours working through a gauntlet of 13 challenging problems. Batmend Batsaikhan, Aidan Lee-Gilligan, and Zimri Leisher, the members of team Dining Hall Chicken, placed 5<sup>th</sup> out of 95 teams, and advanced to the North American National Championships on May 31. Congratulations to all our ICPCers!



### The Computer Science department is hiring Prefects and Course Staff for the 2021-22 academic year.

If you're looking for an exciting and rewarding job, here it is. Positions are now available, and we need your skills and enthusiasm. Here are the job descriptions:

[Course Staff Member](#) or [Prefect](#)

The [application](#) is now open. Deadline is Thursday, April 21<sup>st</sup>, 10:00pm. If you have questions, contact [Mike Tie](#).

**Design the Next Computer Science Department T-Shirt!** Do you like wearing t-shirts? Do you like designing? Do you like computer science? Then YOU should combine your passion for these topics by designing the next CS t-shirt! The design should include some reference to Carleton College, some reference to computer science, and some reference to the year. Send your submission to [Theresa Chen](#). The person who submits a winning design will win a free t-shirt AND a \$15 gift card to Blue Monday. Designs are due Sunday, May 1.



**Lost and Found:** A lost-and-found box is located on the garbage/recycle bin as you enter the east entrance to 3<sup>rd</sup> floor Olin. Electronics such as cords, laptops, earbuds, etc., will not be put in the lost-and-found box. They will be kept in Paula's office (Olin 331) until claimed.

## ON-CAMPUS OPPORTUNITIES:

### From The Carleton Career Center:

Check [Handshake](#) for information on upcoming CS related events.

**Product Analyst Intern** (Summer 2022): **Apply by April 10**

**GIS & Data Analysis Internship** (Summer 2022): Apply by April 12

**Python Developer/Business Analyst at [Optum](#)**: Check [Handshake](#) for information about submitting your resume and transcript.

## **OFF-CAMPUS OPPORTUNITIES:**

**Brown University Computer Science**, in collaboration with the [Leadership Alliance](#), offers an [NSF REU Site](#): Artificial Intelligence for Computational Creativity. Admitted undergraduate students will spend 9 weeks on the Brown University campus \* in summer 2022 (June 6 to August 5) , conducting research with Brown CS faculty and graduate students; housing costs are covered and a stipend is provided. Research projects encompass AI disciplines (machine learning, reinforcement learning, deep learning, computer vision, multi-agent systems, natural language processing, robotics) and adjacent disciplines (graphics, human-computer interaction). Particular areas of interest include creative generative models, detecting “fake” generated content, AI for game playing, and user experience design for creative AI systems.

Interested undergraduate students should submit applications to the [NSF ETAP Portal](#) by **April 17**.

More information can be found on the AI for Computational Creativity website: <http://aireu.cs.brown.edu/>

\* While the plan is for the program to run in-person this year, there are remote and hybrid contingency options due to Covid-19. Students that wish to complete the internship remotely, due to health or safety concerns, are still encouraged to apply. Questions about the research program and application process can be directed to: [laura\\_dobler@brown.edu](mailto:laura_dobler@brown.edu)

**NSF-funded REU: [Computing for Health and Well-being](#)** at the University of Iowa Computer Science Department. They are now accepting applications for a 10 week program which will run from May 23 to July 29, 2022 in-person (if the pandemic renders an in-person experience infeasible, we will hold the site virtually). Candidates from populations underrepresented in STEM fields or from academic institutions with limited research opportunities are encouraged to apply as well as students with disabilities. Applications will be reviewed on a rolling basis. To learn more visit their [website](#).

The [REU Site: TaMaLe \(Testing and Machine Learning for Context-Driven Systems\)](#) is currently accepting applications for Summer 2022. We seek to provide undergraduate research students with opportunities to motivated students. No previous research experience is required. Students will work on exciting projects that focus on research problems to improve the reliability and security of context-driven systems such as mobile and web applications.

Participant Eligibility Requirements:

- Must be enrolled in an undergraduate program in Computer Science, or a related field.
- Must be an undergraduate in good standing
- Must be a US citizen or US permanent resident
- Must complete the on-line application

Accepted students will receive:

- The opportunity to work on exciting research.
- \$6,000 stipend (total) for 10 weeks.

- The opportunity to be part of program that has a strong emphasis on collaboration with other students
- The opportunity to work remotely with a team and to be part of a team that follows best practices for remote work with daily standups and collaborative technology.

Please apply [here](https://www.nsfetap.org/award/233/opportunity/232): <https://www.nsfetap.org/award/233/opportunity/232> Application deadline is April 10, 2022.

**Computing & Informatics REU@UNC Charlotte:** Students explore computer vision, visualization and analytics, human-computer interaction, and security for cyberphysical systems to address real-world problems. Learn research skills – engage in the activities/culture of a research lab. **Priority Deadline: March 31, 2022.**

**The Alliance for Identity-Inclusive Computing Education (AiiCE) is looking for eight (8) amazing undergraduates from across the country to serve as members of our [student advisory board](#)!**

The student advisory board will work alongside the [external advisory board](#) to provide strategic advice on Alliance activities. Students will serve in either one-year (rising seniors) or two-year terms.

Potential student advisory board members must meet the following requirements:  
 Currently enrolled as a student at a U.S. two- or four-year college or university.  
 Remain enrolled as a student at a U.S. two- or four-year college or university during their term (one or two years, depending on classification).  
 Demonstration of prior activities/engagements that support the **AiiCE mission**.  
 Submission of a current resume.

***NOTE: Students DO NOT need to be a U.S. citizen or permanent resident to serve as a student advisory board member.***

Applications due Friday, April 22, 2022. Students will be notified in the first week of May and will participate in our stakeholder meeting in late June.

More information on the Alliance, current members, requirements/expectations/timelines, and the application are [available here](#).

### **Calendar of Upcoming Events:**

**April 7:** CS Tea Talk in Olin 310, 4:00pm

**April 14:** CS Tea Talk, in Weitz Cinema, 4:00pm

Want to receive this newsletter and other CS updates? Sign up for the cs-interest mailing list by contacting [Paula Stowe](#).