The Sentinel: February 1, 2021
News and events happening in the Computer Science Department

CS Tea – Upcoming Tea Talks:
Tea Talks will continue to take place via Zoom during Winter Term. To receive the zoom link signup for the **cs-interest mailingslist** then join us **via Zoom 4:00-4:45pm**. Watch for emails from Professor Rafferty highlighting details about our talks; also check for postings on the CS department website.

Feb. 4 Tea Talk: Information on summer opportunities in the CS department
There are four projects, advised by three faculty members, where student help is being sought this summer:

- **Decoding tech support: Expertise identification and trust negotiation of help-seekers and help-givers** (Amy Csizmar Dalal)
- **Investigating Communication and Modeling Microbiome Evolution** (Anya Vostinar)
- **Rearchitecting Dragon Architect** (Aaron Bauer)
- **Understanding Attention, Information Gathering, and Expertise in Starcraft 2** (Aaron Bauer)

You can read more about each of these projects here. There's a link to the application here, which is due by 5pm on Monday, February 15. Summer positions are full time and pay $480 per week. Additionally, there are likely a few non-research, paid summer positions in the department that you may hear about at this tea and plenty of time to ask questions.

Feb. 11 Tea Talk: Dr. Patricia Garcia (https://patriciagarcia.info/ ; University of Michigan)

The Match: You'll soon, within the next few days, receive email information from Professor Anna Rafferty regarding registering for Spring Term courses using The Match. Your course selections are due by Noon on Thursday, February 11.

CARLETON OPPORTUNITIES:

From the Psychology Department: **Join the Perception Lab!**
Do you have an interest in cognitive psychology, linguistics, and/or perception? Are you looking for research experience and perhaps authorship on a poster/article to strengthen your graduate school applications?
The Perception Lab is looking for student researchers to join our team! We will be

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conducting research on the cognitive processes supporting speech perception in difficult listening conditions and the mechanisms underlying audiovisual integration (see our research page for more information). The Perception Lab is also committed to open science practices, so lab time will also be devoted to discussing and learning about topics in meta-science.

Research students will read and become familiar with the literature on these topics, attend weekly lab meetings to discuss research, run participants, assist with data analysis and interpretation, and prepare posters for academic conferences or manuscripts. **Research students enroll in 2 credits of Psych 300 with an expectation of 6-8 hours of work per week (3-4 hours per credit).** Scheduling in the lab is quite flexible; timing for lab meetings and other commitments are determined based on mutual availability.

If you are a highly motivated first year, sophomore, or junior with a background (or interest) in psychology, cognitive science, linguistics, or computer science and can make at least a two-term commitment to working in the lab, please fill out the form below. The **lab** is committed to diversity in all forms, so students from groups that have been historically excluded from science are particularly encouraged to apply.

The deadline to submit applications is 5pm on February 19th, 2021. If you have any questions, feel free to contact Julia Strand or any of the current research students. **Submit an application here!**

From the Computer Science Department: Announcing the International Collegiate Programming Contest (ICPC)

On February 27, Carleton will compete* in a regional qualifier for the International Collegiate Programming Contest (ICPC), and we need you to join our team! From the contest web page: The International Collegiate Programming Contest is an algorithmic programming contest for college students. Teams of three, representing their university, work to solve the most real-world problems, fostering collaboration, creativity, innovation, and the ability to perform under pressure. Through training and competition, teams challenge each other to raise the bar on the possible. Quite simply, it is the oldest, largest, and most prestigious programming contest in the world. The winning team from the regional contest will progress to the international competition and compete against teams from around the world. Contact Aaron Bauer by email and you'll be added to the list of people who will get future ICPC emails.

Career Center Events/Opportunities:

Data Science Summer Intern at Proofpoint – Undergraduate
Do you have a passion for applying analytical reasoning to real-world problems? Do you have a strong mathematical background and understand ML fundamentals? Are you fascinated by the deep learning advancements in GANs, CNNs, RNNs, Transformers, and RL but also are excited about classic approaches such as SVM and Random Forest? If so, then Proofpoint's ML Labs

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team is looking for a Data Science Summer Intern like you!
NOTE: **Apply ASAP but absolutely no later than February 8, 2021** to ensure you get considered. Phone interviews the week of February 15 and full interviews the weeks of February 22 and March 1.
This opportunity is brought to us by a Carleton alum, Ryan Skinner '13. You are highly encouraged to reach out to Ryan via LinkedIn with any questions regarding the organization or the position prior to applying

Software Engineering Intern at Flexport
This opportunity is for interested juniors. Deadline: **Sunday, February 7th!**
This opportunity is brought to us by a Carleton alum, Robert Krossa '16 (robert.krossa@gmail.com). You are highly encouraged to reach out to Robert with any questions regarding the organization or the position prior to applying. Flexport is a logistics startup that is revolutionizing the freight forwarding industry.

Flexport is currently seeking Software Engineer Intern in San Francisco, Chicago, and Seattle. This is a great opportunity for a current Carl that has already had internship experience and are interested in working at a high-growth startup.

OTHER OPPORTUNITIES:

UNC Charlotte – College of Computing and Informatics – Summer 2021 Undergraduate Research Experiences
This REU will be structured as a distributed experience - students will not come to the Charlotte campus, but instead will engage in regular research and REU community activities in a remote/online format. Applications for Summer 2021 are open. Early application deadline is March 1.

NSF BIT SURE Research Experience for Undergraduates (REU)
Summer 2021. Hosted by North Carolina State University, this 10-week program focuses on *advanced sequencing tools* that are transforming the way biologists conduct research and inclusive science. Participants learn about sequencing techniques and participate in professional development opportunities and site visits. A series of workshops and service-learning opportunities promote diversity in science and learning. **BIT SURE** participants receive a stipend.
The **application** is available on our website: **go.ncsu.edu/BITSURE**
The deadline is **February 14th, 2020.**

Call For Applications: 1 year M.S. Program in NLP at UCSC Silicon Valley
Natural language processing (NLP) is a rapidly growing field with applications in many of the technologies we use every day, from virtual assistants and smart speakers to autocorrect. UCSC has created a unique Master's program in NLP to provide students

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with the skills and in-depth knowledge of NLP algorithms, technologies, and applications that are in high demand in both industry and academia. Our program goes beyond the classroom by supplying students with industry-relevant projects for the kind of real-world experience that is essential for a successful career in NLP.

Program Highlights:
- 1-year program, including a 3-quarter capstone project
- Core courses covering all aspects of NLP
- Instruction and capstone project collaborations with experts from industry giants like IBM, Microsoft, Amazon and Bloomberg
- State of the art facilities in the heart of Silicon Valley

Some partial fellowships may be available. Applications are now open. See https://grad.soe.ucsc.edu/nlp/ for instructions. Application deadline is **February 3, 2021** for Fall 2021 admission. Questions can be directed to nlp@ucsc.edu

Paglia Post-Bac Research Fellowship for Graduating Seniors:
Applications are now open for the Paglia Post-Bac Research Fellowship, intended to support graduating seniors with a strong interest in a career in scientific research as they experience working life in a lab/research group at a U.S. Research One (R1) institution for a period of one year (for international students) or two years (for US citizens or permanent residents). Graduating seniors with a major in a discipline represented on Carleton's STEM Board (Biology, Chemistry, Cognitive Science, Computer Science, Environmental Studies, Geology, Mathematics and Statistics, Physics and Astronomy, and Psychology) are eligible to apply. Find out more about the expectations, eligibility requirements, and application process. Application deadline is 5 PM on Friday, February 26, 2021.

Reminder - Important Dates

Feb 4:   CS Tea -- Information on summer opportunities in the CS department
Feb 6-9:   Midterm Break
Feb 11:   The Match course selections for Spring Term due at noon
Feb 11:   CS Tea -- Dr. Patricia Garcia
Feb 15-23: Advising Days