



The Sentinel: November 9, 2020

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

CS Tea Tea

[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 4:00-4:45pm**.

11/12 CS Tea: *"Using Computational Techniques to Improve Genetic Testing in the Clinic"*

Assistant Professor Getiria Onsongo (Macalester College) works on bioinformatics, and in his talk he'll be exploring the computational challenges of genetic testing for diagnosing diseases and recognizing disease variations, especially when we need to perform these tests quickly and cost effectively. This talk will explore the use of computational techniques and emerging technologies to aid genetic testing in the clinic. In the first part of the talk, I will discuss the use of machine learning techniques to improve detection accuracy of a genetic testing tool that identifies disease causing deletions in the human genome. The second part of the talk will cover the use of cloud resources to increase turnaround time and reduce the cost of the tool. If you're interesting in ideas like personalized medicine or interdisciplinary applications of computer science and biology, this is sure to be an interesting talk!

Kudos!

Anya Vostinar, Assistant Professor of Computer Science, has a paper being published at the Annual Meeting of the American Educational Research Association, entitled "Intuitive Evolution Education via Evolution in Game Mods" which presents a proof-of-concept modification to a popular game that introduces evolutionary dynamics.

Study Locations

Need a change of scenery while you study? Anderson Hall, Olin Hall, and Hulings Hall all feature great little nooks and crannies for you to plop down and focus on your CS coursework. Check out what's available. From what we have seen, people working in the science complex are being careful, wearing face masks, and keeping their distance.

OPPORTUNITIES:

Boston Lighthouse Innovations

[Boston Lighthouse Innovations](#) builds innovative software for precision medicine diagnostics. We are currently hiring software engineers. Contact Aram T. Salzman directly:

ph: 1-617-901-8989

e: asalzman@bostonlighthouse.us

University of Wisconsin-Madison Masters in Statistics: Data Science

Are you interested in the study of extracting knowledge from data? Do you want to expand your data analysis reasoning skills? Have you been looking for a master's program that focuses on making sense of complex data and utilizing communication skills in realistic settings? Consider applying to the University of Wisconsin-Madison Masters in Statistics: Data Science (MSDS) program! MSDS combines a background in statistical theory, methods and practice related to data science with communication decision making.

Students interested in learning more about our program and the application process can visit our webpage: <https://stat.wisc.edu/graduate-studies/data-science-option/>. For more information about program requirements, policies, and funding can visit our *Graduate Guide* page: <https://guide.wisc.edu/graduate/statistics/statistics-ms/statistics-data-science-ms/#admissionstext>. **Applications for the Fall 2021 term are open until March 1st, 2021.** Any questions can be directed to Dana Maltby, MSDS Program Coordinator, at visp-msds@stat.wisc.edu.

Women of Color (WoC) – which includes Black, indigenous, and Latinx minorities – are the most underrepresented demographic from high paying industries, including software engineering. Yet WoC are flush with the talent, creativity, and social insight to solve complex problems and lead in the software industry. Using a dedicated Slack space and cohorts of 4-5 people, this program seeks to unite WoC and other members of minoritized groups, to battle feelings of isolation and marginalization that are prevalent in educational institutions and industry settings. Participants will be placed in cohorts of 4-5 people and encouraged to meet on a 1-2 week basis. We will also host monthly 1 hour webinars, featuring peer-lead instructional tutorials and talks by professionals from academia and the software industry. Our first kick-off webinar will be in January 2021.

WoCCode is now accepting applications for members of its inaugural 2021 cohort. Follow this link to apply: <http://bit.ly/woccode-apply-2020> Forms submitted before **November 24, 2020** will receive full consideration. **Anyone may apply to WoCCode.**

WoCCode is an Astropy sponsored IDE (Inclusion, Diversity, and Empowerment) project, which receives funding support from the Moore Foundation. Questions about the program can be directed to WoC.Code@gmail.com

Machine Learning and AI Job Opportunity Foundry.ai is seeking talented students interested in Machine Learning and AI for roles in Data Science and Software Engineering. Foundry is a small (~40 people) startup based in Washington, D.C. which provides Machine Learning and AI services to businesses. Our goal at Foundry is to use Machine Learning to solve tractable, real-world problems and produce results quickly for a wide variety of different fields. At Foundry, you can expect to work closely with a team of talented individuals on a variety of challenging and interesting problems with direct,

real-world results. Reach out to wknospe@foundry.ai (Will Knospe, Class of 2020) with any questions.

Women in Cyber Security Workshop

Curious about cyber security? Want to learn about reverse engineering and software vulnerabilities, or how to leverage vulnerabilities to gain control of systems? Interested in hearing from other women and Holy Cross alumni about what it is like to work in cyber security? College of the Holy Cross is hosting a **free** online workshop on **Saturday, November 14**. No prior experience in cyber security is needed. If you have taken a course in introductory computer science, or you picked up basic programming and command-line experience elsewhere, then you have what it takes to succeed at this workshop. Besides giving you a taste of what cyber-security is all about, we hope this workshop will also give you a chance to meet like-minded peers at other schools and professionals working in the field. We aim for this to be a fun too! For details and (free) registration info, see the [attached flyer](#), or feel free to contact Kevin Walsh kwalsh@holycross.edu

Software Engineering Intern opportunity at Hewlett Packard Enterprise, Bloomington, MN – Summer 2021

This is a summer internship. The XCCS Software Development team at HPE is looking to hire enthusiastic summer interns with a passion for development and leading-edge technology. You'll find more information [here](#). Also note, in this site the education requirement may be confusing. HPE is interested in undergrads seeking BA or BS degrees.

Reminder - Important Dates

Nov. 9: CS Tea – 4:00pm via Zoom

Nov. 18: Last Day of Classes