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MSPQC Newsletter

News, info and updates for MSPQC students at UW–Madison

April 9th, 2021

Announcements

Welcome to the MSPQC Newsletter!

Hello MSPQC students! We're excited to unveil our MSPQC Newsletter. This newsletter will be a hub for all things related to the MSPQC program, employment and professional development opportunities, and events on or off campus. If you have any questions or items you'd like to see added to the newsletter, contact [Jackson Kennedy](#).

Chicago Quantum Exchange: Duality

The [Chicago Quantum Exchange \(CQE\)](#) has announced Duality, a program designed to help quantum startups in the Chicago area bridge the gap between the laboratory and the marketplace through a minimum \$20 million investment over the next 10 years from a broad ecosystem of corporate and academic partners. Read the announcement [here](#).

Spring 2021 Grading Policies Updated: SD/UD Available for Grad Students

UW-Madison will implement a very similar disruption grading policy in spring 2021 as it did in spring 2020, with the amendment noted below (see #2) that UD (Unsatisfactory-Disruption) be changed to (University Disruption-No Credit).

Change to description of spring 2020 "UD" grades: The UD grade, used on the transcript for the spring 2020 term, will remain as "UD". In public facing documents, such as the transcript legend and the Guide, the UD grade will be defined as "University Disruption-No Credit".

Pandemic transcript notation: In the transcript memorandum section for any student enrolled at UW-Madison during spring 2020-spring 2021, this standard statement will be applied: "A global public health emergency in spring 2020, summer 2020, fall 2020 and spring 2021 required marked changes to university operations that may have significantly affected student enrollment, learning and grading."

Summer and Fall 2021 Enrollment Happening Now!

[Summer 2021 enrollment began on April 5th and Fall 2021 enrollment will begin on April 12th.](#) If you need to enroll in Physics 799, please email [Jackson Kennedy](#) and copy your faculty mentor. For enrollment in Physics 707, please email [Jackson Kennedy](#) for instructions.

COVID-19 Vaccination Updates

The following website details vaccination eligibility and how to make an appointment through your MyUHS account.

Professional Development & Events

QED-C – DOE Event on Quantum Entanglement and Quantum Networks

Date: April 14, 2021: 1:00 – 4:00 PM EST

QED-C, in collaboration with DOE, is sponsoring an workshop focusing on quantum entanglement and quantum networks. The 3-hour event aims to raise awareness and connect researchers among the national laboratories and QED-C members who are working on quantum network technologies. For more information, contact [Rima Ouied](#).

Workshop: Quantum Feature Maps for the NISQ Era

Date: April 16, 2021: 10:55 AM – 3:00 PM CST

The Chicago Quantum Exchange will be hosting a workshop with the goal of providing an overview of current challenges in constructing applicable feature maps and an understanding of the state-of-the-art, as well as start conversations about how these challenges can be addressed under the constraints imposed by NISQ hardware. This workshop will be hosted virtually on April 16, 2021 and you can register [here](#).

2021 CQE Member and Partner Workshop

Date: April 19-20, 2021

Chicago Quantum Exchange Members, Partners, and Trainees are welcome to join a CQE-wide workshop on April 19 and 20, 2021. The workshop will provide opportunities to hear from CQE Partners; engage in technical discussions spanning quantum communication, sensors and detectors, and quantum computing and algorithms; and hear trainees from across the CQE present their work. You can register to attend [here](#) and register to present [here](#).

QED-C Student E-Poster Session

Date: April 20, 2021: 3:00 – 4:00 PM EST

Join QED-C for short presentations from rising stars in quantum science and technology. Select students will present their research results. This is a chance to hear about leading edge research and to meet students who will be part of the quantum workforce. For an invitation, please contact [Mary Scott](#).

Chicago Quantum Exchange Recruiting Forum

Date: April 23, 2021: 12:00 – 4:00 PM CST

The Chicago Quantum Exchange will be hosting a recruitment forum for trainees interested in exploring quantum career opportunities and CQE partners to share workforce opportunities and access attendee resumes. This event will bring together current quantum experts in industry and academia with undergraduates, graduate students, and postdocs from across the CQE. The program will include a panel of experts from various quantum industries, including JPMChase, Microsoft, TOPTICA Photonics, and Verizon. You can learn more about the event and register [here](#).

Spring School on Quantum Correction

Date: April 26-30, 2021

The [Challenge Institute for Quantum Computation](#) (CIQC), in collaboration with the [UCLA CQSE](#) and [UCLA IPAM](#), will be hosting its first annual Spring School in QIS from April 26-30, 2021. The focus of this year's weeklong school will be Quantum Error Correction (QEC). The school will be aimed at experimentalists and new theory students working in quantum information science and related fields. Graduate students, as well as postdoctoral and faculty researchers who desire an introduction to quantum error correction, are encouraged to apply [here](#).

QED-C Workshop: Quantum Entanglement and Quantum Networks

Date: April 29, 2021 - 1:00 - 4:00 PM EST

QED-C, in collaboration with DOE, is sponsoring a workshop on quantum entanglement and quantum networks. The 3-hour event aims to raise awareness and connect researchers among the national laboratories and QED-C members who are working on quantum network technologies. For an invitation, contact [Rima Ouied](#).

Discount: Inside Quantum Technology New York Meeting

Date: May 17-20, 2021

QED-C is pleased to partner again with Inside Quantum Technology (IQT) to offer a discount on registration to the upcoming online IQT New York meeting on May 17 -20. The conference brings together industry leaders from around the world—from suppliers to system developers to end users. Use the promo code QEDC20 to get a \$20 discount on the regular price.

Employment Opportunities

MSPQC Career Toolkit

MSPQC Program Coordinator Jackson Kennedy manages and updates the [MSPQC Career Toolkit](#). This is the central hub for professional development and job search opportunities for MSPQC students and is updated frequently. Contact [Jackson Kennedy](#) with questions, concerns, and suggestions.

QED-C Student Database

[QED-C](#) Maintains a database of students obtaining degrees in quantum computing. This database is shared with employers, internship providers, and consortium partners. To add yourself to this database, complete the [Student Info Form](#) (password: Students@QED-C) and use Jackson Kennedy (jckennedy3@wisc.edu) as your advisor email.

Physicists and Engineers in Sensors Division, Systems & Technology Research

[Systems & Technology Research](#) (STR), in particular the Sensors Division, is actively recruiting physicists and engineers. Interested students (undergrad or graduate) or postdocs in physics, engineering, applied math, or related fields who are considering industrial positions in research and development are encouraged to review the website and reach out to [Nicholas Schade](#). US citizenship is required.

Honeywell: Quantum Computer Operator

In this position you will work closely with a team of research scientists to operate, maintain, and upgrade a commercial quantum computer, analyze performance and reliability of the system and work with scientific team to plan upgrades and add features, and provide technical support to customers and support teams on sophisticated technical problems. Apply [here](#).

Amazon: Quantum Software Engineer

In this position you will write software to automate manual work when designing quantum devices, build dashboard to display the progress of simulations, and parallelize numerical simulation codes. Apply [here](#).

IBM: Quantum Computational Scientist

In this position you will work with the IBM Q Start team on active exploratory research engagements to prepare for future use case commercialization within specific industry, interact with client data science teams to explore promising areas for quantum, implement quantum approaches, which includes data pre-/post-processing, running numerics and visualizing data, and collaborate with industry and solution-ing experts to design and shape experiments to demonstrate quantum-enabled advantage. Apply [here](#).

Useful Links

[Dates and Deadlines from the Office of the Registrar](#)

[MSPQC Career Toolkit](#)

[MSPQC Handbook](#)

[Professional Development from the Graduate School](#)

Connect with us!



[Department of Physics](#)

1150 University Avenue, Madison, WI 53706

This newsletter is for MSPQC students at UW–Madison; we update the mailing list at the start of each semester. Please contact [Jackson Kennedy](#) with any questions.