USQCD DEI activities

Will Detmold, MIT

Traineeship PIs

- § Workforce in HEP Computing Snowmass2013 recommendation > Majority of funding goes to experimental efforts/programs > Lattice proposal: take advantage of the USQCD network
- § High Energy Physics Computing Traineeship for Lattice Gauge Theory (LGT4HEP)





Alexei Bazavov

Thomas Blum





Zohreh Davoudi William Detmold Aida El-Khadra Huey-Wen Lin



Ethan Neil



Andreas Kronfeld



Chulwoo Jung



Peter Boyle (collaborator)

All the credit should go to Huey-Wen!!

(PI)



LGT4HEP (https://lgt4hep.github.io)

High Energy Physics Computing Traineeship for Lattice Gauge Theory (LGT4HEP)

Interested in becoming a leader in the next generation of high-performance computing for theoretical physics research?



Learn from the best: Be trained by world-renowned experts in highperformance computing and lattice gauge theory.

Gain hands-on experience: Work on cutting-edge research projects using state-of-the-art computing resources and internship opportunities at DOE national labs.

Make a difference: Help push the boundaries of our understanding of the universe and develop the next generation of high-performance computing technologies.

Apply now:

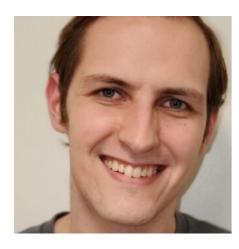
Visit <u>lgt4hep.github.io</u> to learn more and where to apply for the traineeship graduate school program.



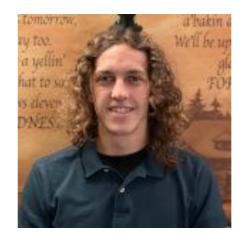
FY24 Traineeship Students

https://lgt4hep.github.io/Students.html

Bill Good (he/him) Michigan State University **Jake Sitison** University of Colorado, Boulder









Ryan Abbott MIT

Jonas Hildebrand University of Connecticut

§ News:

§ These students are still early in their career stage. We look forward to many great things from them in the future



Traineeship Courses

§ Fundamental Courses

https://lgt4hep.github.io/Courses.html

- Graduate-Level Computational Physics (should cover at least Python, C++, algorithms)
- Parallel Computing (in C or C++)
- Quantum Field Theory I (and relevant prerequisites)

§ Lattice-QCD Training

- Course: Complete two semesters of lattice-QCD training with knowledge and hands-on experience
- Internship at national lab

§ Summer School

Attend existing summer schools that are already funded by DOE and NSF to further advance their background in HEP and computing topics.



Course will be studentdriven and open to all

Traineeship Program

- § Successful completion of the traineeship program will require trainees to complete the following goals (2 years)
 - A minimum of 9 credit hours in relevant coursework, including one semester of quantum field theory and one semester of HPC
 - Attendance at a minimum of one relevant summer school, workshop, or other training event, such as a hackathon
 - Satisfactory completion of course materials developed specifically for this program
- Completion of a research experience in lattice field theory at a DOE national lab, under the supervision of a lab-based mentor



OAK RIDGE

National Laboratory







Fermilab

LGT4HEP

Please advertise to undergrads you know who might be interested!



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DEI in funding renewals

- New DOE proposal for LQCD project (HEP) and NPPLCI (NP) submitted a few weeks ago and are being reviewed in May
- Plan for Promoting Inclusive and Equitable Research (PIER plan)
 - Focus on activities built around USQCD infrastructure
 - Access to USQCD hardware through junior investigator track
 - Travel \$\$\$ for summer student visits to USQCD host labs
 - Support of project staff to coordinate DEI/outreach efforts amongst USQCD members

USQCD Committee on DEI

- USQCD CDEI formed in 2020
- Current members have been on it since inception: K. Cushman, W Detmold, A. El Khadra, R. Edwards (ex officio), J. Giedt, H.-W. Lin
- Less active in the last year
- New members needed please send me an email to volunteer