

QED QUARTERLY

The Newsletter of CU Boulder Math Club



THIS ISSUE FEATURES:

- Math REU
Summer 2021 -
page 2
- Virtual PPRUMC
2021 conference -
page 3
- Just-In-Time
career and
internship fair -
page 3

LOWDOWN ON UNDERGRAD RESEARCH

Mathematics makes our society more sustainable because it helps solve challenges in computing, technology, biology, transportation, and communications. Math is, indeed, transforming these fields.

Students wanting to continue in academia and pursue graduate work (either to pursue a Masters or PhD) are recommended to have some undergraduate research experience. Research is often described as learning in-depth.

Math Research: Demystified

When: Thursday Feb 25 @ 5:15 pm

Where: Virtual

Details at math.colorado.edu/mathclub

Who: Organized by Agnes Beaudry with support of the Math Club
and the Diversity Committee

QUEST EXPLORE DISCOVER

MATH RESEARCH EXPERIENCE 2021

Applications are due March 5, 2021.

The mathematics department will be hosting an internal research experience for undergraduates in Summer 2021. If your idea of fun is thinking about mathematics, then this may be your chance for getting paid for having fun. Organized by Nat Thiem.

Projects include:

- Computing invariants for expansive dynamical systems. Mentor: Robin Deeley
- Invertibility of Randomly Perturbed Matrices. Mentor: Kyle Luh
- Topological Data Analysis and Applications to the Sciences. Mentor: Markus Pflaum
- What is an n -dimensional shuffle? Mentor: Nat Thiem
- Stability conditions for genus 2 curves. Mentor: Jonathan Wise
- Derived Poisson Structure on sl_2 . Mentor: Yining Zhang

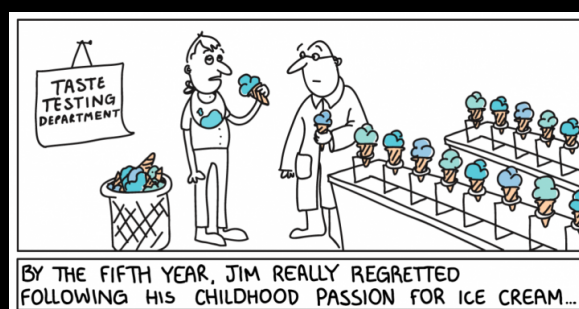
[math.colorado.edu/~thiemn/InternalMRE/
UndergraduateApp.html](http://math.colorado.edu/~thiemn/InternalMRE/UndergraduateApp.html)

Moving forward from this point on should be guided by passion.

You get up early, excited to go to work. You often put in more hours than the average person, but it doesn't seem difficult to you, because your work hours just zoom right by. You are often in that state of mind, often referred to as "flow," where you can lose track of the world and time. Work should not be a "job" but a passion.

Dare to imagine the possibilities, and dare to actually search for what you love, and it is not only a possibility, but a probability.

Directions you can take are graduate school to pursue an advanced degree (MS or PhD), or interning/working either at for-profit or non-profit organizations. And don't forget government agencies.



Credit: 80,000 Hours Career Guide



TIME TO TAKE ACTION

Upcoming Virtual Conference
Saturday, February 27th, 2021
18th Annual Pikes Peak Regional
Undergraduate Mathematics Conference
(PPRUMC)

www.coloradocollege.edu/academics/dept/mathcs/newsevents/pprunc.html

INFORMATION SOURCE

Newsletter written by Divya Vernerey
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www.colorado.edu/math/undergraduate-program/research-industry-undergraduate-students

Students wanting to write for the
QED Quarterly should contact
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JUST IN TIME!!

Student wanting to pursue a career in the private sector with industry or business (or work for government agencies) are advised to get involved in internships. Internships are described as giving a breadth in learning.

Our Math department is well-positioned to increase students' relevance because math has so many real-world applications.

Just in Time Career & Internship Fair
When: Wednesday April 7 @ 11am - 4pm
Where: Virtual

www.colorado.edu/career/students/find-job-or-internship/handshake

Who: Organized by CU Career Services