

# 26<sup>th</sup> Annual Career and Graduate Programs Conference

## November 3, 2023 from 1-4PM in the Mathematics Atrium

### Farmington Public Schools

**Megan King, U(M) Alumni – BA 2009** *Mathematics Instructor*

**Colleen Stamm, U(M) Alumni – BS Ed 2002** *K-12 Math and Science Coordinator*

Math teachers are needed at all levels of education, including elementary, middle, and high school. With a math major and education focus, you can pursue various roles in the education profession: classroom teacher, interventionist, curriculum team member or coordinator, content leader, and more. You can also get involved in other roles, including being a member of or chairing various committees, coaching, and leading student groups, among other options.

### Jane Street

**Stephanie Grassullo, Campus Recruiting**

**Frankie Lam, Trader**

**Jack Palen, Trader**

Jane Street is a quantitative trading firm with offices worldwide. We hire smart, humble people who love to solve problems, build systems, and test theories. You'll learn something new every day in our office—whether it's connecting with a colleague to share perspectives, or participating in a talk, class, or game night. Our success is driven by our people and we never stop improving.

Applications for our Summer 2024 Internships are now open, and our full-time roles are open year-round:

<https://www.janestreet.com/join-jane-street/open-roles/?type=students-and-new-grads&location=new-york>

Roles we are currently hiring for:

- Quantitative Trader
- Quantitative Researcher
- Software Engineer
- Strategy and Product
- Sales and Trading
- FPGA Engineer
- Linux Engineer
- And and more roles!

### Michigan Technological Research University (MTRI)

**Michelle Wienert, Research Scientist and Office Manager**

Michigan Tech Research Institute (MTRI) is recognized as a leader in the research, development, and practical application of sensor and information technology.

A research center of Michigan Technological University based in southeast Michigan, MTRI is an innovator in building information from data through the marriage of phenomenological understanding and implementation of mathematically rigorous algorithms. Together with University and other national and international collaborators, MTRI researchers and scientists work to solve critical problems in national security, protecting and evaluating critical infrastructure, bioinformatics, Earth sciences, and environmental processes.

From community outreach to those who share our commitment to future-forward research, MTRI seeks to provide educational programs, technical expertise, and data and information tools to the public, partners, and other participants to promote awareness to improve ecological and economic health.

Our mission is to provide real-world experience for high school, undergraduate, and graduate students in a research institute that addresses advanced technology to sense and understand natural and human-made environments. We are seeking qualified candidates with the following background/coursework:

- Excellent analytical abilities: Mathematics (calculus and linear algebra) with advanced math courses being a plus; statistics and probability (basic courses) with advanced statistics courses being a plus; electrical engineering and/or physics.
- Experience with signal processing concepts (e.g., discrete Fourier transforms) is preferred.
- Currently pursuing or recently received a bachelor's, master's, or PhD degree, with preference to those in mathematics, statistics, electrical engineering, or computer science.
- Experience with programming, such as MATLAB, Python, C, etc., is preferred.
- Familiarity with statistical analysis software (R, SAS, JMP) is helpful.
- Familiarity with shell language programming (Linux or Unix) is helpful.
- Ability to obtain a DoD (Department of Defense) security clearance, which requires US citizenship, and no dual citizenship with any other country.

To be eligible for an Internship, you must:

- Be a student or recent graduate in good standing at an accredited college or university.
- Be majoring or received a degree in a field appropriate to the job opening.
- Have a minimum grade point average of 3.0 on a 4.0 scale, or equivalent.
- Be a US citizen and not a dual citizen.

## Peak TV

**Steve Billnitzer, U(M) Alumni – BA 1979** *President and CEO*

**Elizabeth Rizzo, Vice President of Development**

Peak TV is a producer of family-oriented network and SVOD comedy and "reality" programs.

We produce and distribute television shows, primarily family comedies. Multiple career opportunities for mathematicians in our industry exist in the ratings and IT departments of all the major network conglomerates.

Work roles might include:

- Estimating, analyzing, interpreting and tracking network and off-net (and, where measurable, SVOD) ratings data for prime-time television programs and those of broadcast competitors.
- Providing detailed analyses of overall and relative series performance and developing audience projections across all estimating cycles.
- Establishing objectives and key measures relating to rate card management and program scheduling.

## Pink Inference

**Jonah Weinbaum, U(M) student – BS 2025** *Project Lead*

**Michael Loftus U(M) student – BSE 2025** *Data Analyst Supervisor*

Pink Inference is building wetware computers for continuous control reinforcement learning applications.

We are looking for people to help with problem encoding. In other words, we are looking for people to help us create a standard algorithm that transforms any given defined problem into input that we can give to a biological neural network.

We are also looking for people interested in another project: near-instantaneous sleep prediction based off of HRV & GSR probabilities.

## Radix Trading

**Wenli Zhao, U(M) Alumni – BS 2017** *Quantitative Researcher*

**Paul Lewis, U(M) Alumni – BS 2012** *Campus Recruiter*

Radix Trading is a research firm, powered by technology and monetized through trading. Our focus is building a new type of trading firm dedicated to research through targeted collaboration and vast ingenuity. We're constantly evolving our strategies and developing new ones through innovative machine learning and statistical methodologies.

Our culture of openness enables fast turnaround from idea inception to execution, and continuous enhancement of our cutting-edge proprietary technology and automated research platform.

We operate in Chicago, New York, and Amsterdam, and participate on major electronic markets across North America, Europe and Asia. As a privately-funded company, we do not accept outside investments.

Current Job Openings

Others

Quantitative Strategist - Full Time Chicago

Research

Quantitative Researcher - Full Time Chicago, Amsterdam

Quantitative Research Intern Chicago

Technology

C++ Quantitative Technologist Intern Chicago

Quantitative Technologist (C++) - Full Time Chicago, Amsterdam

Quantitative Technologist (DevOps / Trading Ops) - Full-Time Chicago, Amsterdam

Quantitative Technologist (Systems Administration) - Full-Time Chicago

Apply at <https://boards.greenhouse.io/radixuniversity>

## U(M) Biostatistics

**Hui Jiang, Professor, Biostatistics**

**Veera Baladandayuthapani, Professor of Biostatistics**

**Michael Sweeney, Ph.D student in Biostatistics**

**Fatma-Zohra Nedjari, Program Coordinator**

They will discuss opportunities for graduate study and careers in biostatistics, a great field for quantitatively strong students interested in science, public health, or biomedicine, and who wish to make difference. The Department of Biostatistics at Michigan is among the best in the world. Their Masters program requires courses in multivariable calculus, linear algebra, and introductory statistics. Their PhD program further requires real analysis. Probability theory and computing skills (e.g. R, Python, C++) are also valuable preparation, and are taught in their programs.

## U(M) Career Center

**Jocelyn Gaydos, Career Services Coordinator**

**Jackie Minken, Peer Advisor**

The University Career Center provides career coaching and resources to U-M students on topics including resumes, interviews, networking, job/internships search, and more!

## U(M) Industrial & Operations Engineering

**Matt Irelan, Graduate Program Coordinator**

IOE students gain lifelong skills to launch their careers and are highly multidisciplinary. A degree from IOE enables students from quantitative disciplines, including mathematics, to align their interests to one or more focus areas. They prepare students for careers in consulting, finance, healthcare, supply-chain management, energy, transportation, academia, teaching, research and more. They recruit Math majors; data analytics, operations research and human-systems-integration are a few of the math areas.

## **U(M) Marsal Family School of Education**

**Batoul Abdallah**, *Faculty Recruitment Lead*

Unlock your potential as a math teacher to create a lasting difference. Inspire young minds, advance mathematical literacy, and enjoy lifelong intellectual growth. Speak with our School of Education Math Education faculty and recruitment specialists to learn more.

We recruit math majors and those students who have satisfied most math requirements for our Elementary (Math 105) and Secondary (Math 115, 116, 215, 486) teacher education programs.

Mathematical skills: Content mastery, problem-solving, logical reasoning, data interpretation, proofs, spatial visualization, and mathematical modeling.

## **U(M) Mathematics**

**Jessica Highfield**, **U(M) Alumni – BS** *Graduate Program Coordinator*

Visit Jessica to get advice on how to apply for graduate schools and hear about the graduate programs offered at U(M). The Department of Mathematics offers Ph.D. programs in Mathematics and Applied & Interdisciplinary Mathematics. The Master of Science degrees offered include: Actuarial Mathematics, Applied Mathematics, Applied & Interdisciplinary Mathematics, General Mathematics, Mathematics for Secondary School Teachers, and Quantitative Finance & Risk Management.

## **U(M) Quantitative Finance and Risk Management**

**Lynn Zhou**, **U(M) Alumni – MA** *Program Coordinator*

The Quantitative Finance & Risk Management Program is a 36-credit master's program that prepares students for careers as quantitative analysts, financial engineers, quant traders, risk managers, and other roles in finance. Our program combines advanced core coursework in mathematics and statistics with electives in finance, computer science, and economics to give students the thorough and well-rounded education they need to succeed in their careers. Our graduates have gone on to work for prestigious companies that include Goldman Sachs, Citi, HSBC, Capital One, and Société Générale in addition to high selective PhD programs across the globe. We recruit undergraduates from all quantitative majors, including all fields of math and other majors like engineering, statistics, computer science, and economics. U-M math majors are eligible for our AMDP track, which allows them to double-count certain courses and earn their master's degree in just 2 terms.

## **U(M) Undergraduate Mathematics Advisors**

**Dr. Hanna Bennett** *Undergraduate Program Director*

**Dr. Roger Natarajan** *Actuarial Program Director*