

20th Annual Career and Graduate Programs Conference

November 4, 2016 from 1-4PM in the Mathematics Atrium

Airflow Sciences Corporation

Robert Nelson (BS 1975) is the CFO of Airflow Sciences Corporation. Airflow Sciences Corporation is an engineering consulting company that specializes in the solution of industrial fluid flow problems. Example projects include: reducing industrial pollution, improving energy efficiency, increasing performance of sporting equipment, assisting in bringing food and medical projects to market, and much more. Tools used for this work include large scale numerical simulation, on-site testing, and physical models. This work provides opportunities for Aerospace and Mechanical Engineers, Scientific Programmers, and Mathematicians with a knowledge of differential equations, large scale linear systems, numerical analysis and error analysis.

Amazon

Chandler Wu (PhD 2014) is here representing Amazon. Chandler is a Research Scientist at Amazon that supports business and operation decisions. His team automates the inventory flow of Amazon's logistic system. Research Scientist with Operations Research, Statistics background; Machine Learning Scientist; Economists; Business Intelligence Engineer (Data Scientist)

The Auto Club Group (AAA)

Allison Kellogg and **Michael Arbit** are here to represent The Auto Club Group (ACG). The Auto Club Group (ACG) provides membership, travel, insurance and financial services offerings to approximately 9 million members and customers across 11 states and 2 U.S. territories through the AAA, Meemic and Fremont brands. ACG belongs to the national AAA federation and is the second largest AAA club in North America. ACG currently has a job opening for an Actuarial Analyst position. A bachelor's degree in Actuarial Science, Statistics or a related field is required for this position.

BlackRock, Inc.

Max Siegel is here with BlackRock, Inc. BlackRock is a multinational investment management corporation based in New York City and is a leading provider of investment, advisory, and risk management solutions. BlackRock is the world's largest asset manager with over \$4.77 trillion in assets under management. Internship opportunities in several of BlackRock's business groups are available to students with expertise in financial math, actuarial math, and statistics. BlackRock is the world's largest asset manager guiding individuals, financial professionals and institutions in building better financial futures. BlackRock hires professionals from a variety of backgrounds, including those who have studied mathematics.

Bridgewater

Lulu Wang (2016) is representing Bridgewater. Bridgewater Associates is a research firm that codifies and compounds understanding of the global financial system into systems that can predict markets. That pursuit, for 40 years, has also made Bridgewater one of the largest and most successful money managers in the world. Their research has changed how investing is done in many important ways, and they also use their understanding to help policymakers and their clients (who are exclusively pension funds, endowments, foundations, and national wealth pools). Bridgewater is looking for exceptional, intellectually curious individuals who have the creativity, drive, and intelligence necessary to deepen our understanding of how markets work. There are three main tracks for interns: as an investment associate, technology associate, or management associate. They want diversity of thought, so they encourage applicants from all academic disciplines to apply. No prior experience in finance is required.

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UM - Career Center

Don Beckwith from the UM Career Center is here to discuss job searching, resume building, choosing between graduate school and a career, and other information. The University Career Center is your campus resource for career exploration, resume and interview preparation, and links to employers for internships and permanent jobs. Take advantage of Immersions, resume reviews, on-line job and internship postings, job fairs, on-campus interviews with employers from around the country, and much, much more. Visit careercenter.umich.edu to learn more.

Ford Credit Company

Dr. Lan Wang and **Cynthia Taaffe** work in Global Analytics for Ford Credit Company. The Global Data, Insights and Analytics (GDIA) team is a rapidly expanding group within Ford Motor Company, supporting all skill teams (e.g. Purchasing, Product Development, Marketing & Sales, Manufacturing, Finance, Risk Management, etc.). Global Analytics, a group within GDIA of Ford, supports the development, evaluation, and deployment of various quantitative tools to support a wide range of Ford Credit business segments. They are an award-winning team of analytic professionals, recognized externally with the 2013 INFORMS award and as one of the Best Places to work by Glassdoor, Human Rights Foundation and others. They create solutions for the business by recommending ways to bring data to life to solve business problems.

Georgetown University

Minni An is here from Georgetown University's Department of Biostatistics. The Department of Biostatistics, Bioinformatics and Biomathematics is an academic department within Georgetown University Medical Center. It engages in extensive collaboration research with the Georgetown Lombardi Comprehensive Cancer Center (LCCC), provides a Masters of Science program in biostatistics and teaches service courses to Georgetown Medical students and biomedical graduate students. Starting Fall 2017, the Department will kick off a new PhD program in Biostatistics.

Google

Dan Echlin (BS 2010) & Joseph Richey (BS 2016) are representing Google. Google is interested in hiring majors in math (BS/MS/PhD) and related fields for a variety of Software Engineering roles. Find out more at <http://www.google.com/students> or contact michstudents@google.com.

IBM

Terrell Johnson, Dave Liederbach, Conor Krouch and Tahir Khan are here representing IBM. IBM is a global technology and innovation company headquartered in Armonk, NY. It is the largest technology and consulting employer in the world, with more than 375,000 employees serving clients in 170 countries. Just completing its 22nd year of patent leadership, IBM Research has defined the future of information technology with more than 3,000 researchers in 12 labs located across six continents. Scientists from IBM Research have produced six Nobel Laureates, 10 U.S. National Medals of Technology, five U.S. National Medals of Science, six Turing Awards, 19 inductees in the National Academy of Sciences and 20 inductees into the U.S. National Inventors Hall of Fame. Today, IBM is much more than a "hardware, software, services" company. IBM is now emerging as a cognitive solutions and cloud platform company. Their work and their people can be found in all sorts of interesting places. IBMers are helping transform healthcare, improving the retail shopping experience, rerouting traffic jams and even designing the next generation fan experience in sports stadiums around the world. It's the kind of thing they've been doing for more than 100 years.

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UM – Industrial Operations & Engineering Department

Matt Irelan is representing the Industrial Operations & Engineering graduate program at Michigan. Industrial and Operations Engineering (IOE) focuses on achieving best-case scenarios through analysis, design, and control of materials, machines, and behavior. IOE has expanded from the manufacturing industry into all sectors of the economy. We work to achieve optimal performance, process, and production. IOE engineers are able to design, improve, and install optimized systems in growth fields like banking, insurance, healthcare, transportation/distribution, environmental protection, information processing

Jane Street

Jack Palen (BS 2013) and **Andy Niedermaier** are Quantitative Trader's from Jane Street. Jane Street is a quantitative trading firm with a unique focus on technology, a scientific approach, and a deep understanding of markets to guide business. Jane Street's entrepreneurial culture is driven by a talented team of traders and programmers. They are a global liquidity provider and market maker, operating around the clock and around the globe, employing over 500 people in offices in New York, London and Hong Kong.

UM – The LSA Opportunity Hub

Kelly Day and **Ben Anderson** are here from the College of Literature, Science and Arts to represent the LSA Opportunity Hub. The LSA Opportunity Hub provides programming and support that encourages students to explore and articulate the connection between their liberal arts education and their goals and aspirations. In collaboration with the University of Michigan community, we facilitate access to internships, funding, and employer and alumni partnerships so that students can engage in challenging and diverse opportunities that inspire their self-discovery.

MDA Information Systems, LLC

Dr. Bill Correll Jr (PhD 2002) is a Remote Sensing Research Scientist with MDA Information Systems, LLC. MDA Information Systems provides essential software applications, information products, and technical expertise to enable smarter decision making while mitigating risks. Whether for the commercial or government/public sector, MDA knows Big Data--from real-time data acquisition and tracking to advanced data and imagery fusion, exploitation, and analysis. Majors that MDA seeks to hire: Computer Engineering, Computer Science, Mathematics, Physics, Electrical Engineering.

Michigan Technical Research Institute

Dr. Matthew Masarik (PhD 2012) is a research scientist with the Michigan Technological Research Institute. Michigan Tech Research Institute is a recognized leader in the research, development, and practical application of sensor and information technology. They solve critical problems in national defense, protecting and evaluating critical infrastructure, bioinformatics, earth science, and environmental processes. Fundamental scientific research, algorithm design, new business development. Digital signal processing, image processing, statistics, calculus, linear algebra, optimization, estimation theory, detection theory, inverse problems, numerical analysis, information theory, probability, functional analysis, physics, differential equations. Summer internships are available.

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UM - Program in Survey Methodology

Patricia Gregory is representing the Program in Survey Methodology at The University of Michigan. PSM brings together faculty and scientists from the social and behavioral sciences in the College of Literature, Science, and the Arts; the School of Public Health; and the Institute for Social Research. PSM is a program where students learn the science of surveys. Students in the program study with some of the world's leading survey methodologists while pursuing their Master's or PhD degree. Moreover, the quantitative strengths of disciplines such as communication studies, economics, education, political science, psychology, sociology, and statistics are integral to the empirical underpinnings of the program. MPSM is a program where students learn the science of surveys. Our students study with some of the world's leading survey methodologists while pursuing their Master's or PhD degree. The Program provides a rich intellectual environment for study and work at one of the premier public universities in the world.

Proto Manufacturing

Britney Blankenship (BS 2013) is here from Proto Manufacturing. Proto Manufacturing provides measurement services and systems for material characterization (residual stress, retained austenite, crystal orientation, etc). There are opportunities available in a wide range of applications including performing measurement services, fabrication of custom equipment, electronics, and design of component parts. Proto hires math majors. The skills used vary widely by department, though applied math and statistics are used most often.

Qualtrics

Bridget Reichenbach and Brandon Rusnell are Corporate Recruiters from Qualtrics. Qualtrics is currently recruiting for their Product Specialist position, which acts both as a training ground for future leaders of the company and as a launching pad for graduate school. The Product Specialist team is currently home to several Michigan alum. Talk to Bridget & Brandon to see how your analytical and problem-solving skills can help shape your career at one of Business Insider's top tech companies.

UM - Quantitative Finance and Risk Management

Molly Tiernan is the Program Coordinator for the University of Michigan's Master's Program in Quantitative Finance and Risk Management. The Quant Program is 36 credit interdisciplinary master's degree program focused on advanced mathematical and statistical methods used in the financial industry. Graduates will have sophisticated quantitative skills that will prepare them to apply their knowledge to the solution of real world financial problems as quantitative analysts, risk managers, traders, developers, and more.

UM - Ross School of Business – Master of Management Program

Dr. Mark Garrett is representing the Ross School of Business Master of Management Program. With a liberal arts, science, or engineering degree, the possibilities are endless—and so is the competition. Expand your leadership skills and gain an edge in the job market with the Master of Management program at U-M's Ross School of Business. In just 10 months, students gain a solid grounding in the business fundamentals that are essential to every industry. The Master of Management is a graduate degree program in business for people desiring to learn business fundamentals.

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UM – School of Education

Dr. Kevin Hankinson is here from the School of Education. The University of Michigan School of Education welcomes the risk takers —the curious, the bold, the intellectuals and the activists. They welcome this diverse body of individuals to serve a diverse set of communities. They believe that there are different and better ways for children to learn and know that sometimes the mold must be broken for things to improve. The School of Education is training the playmakers. They are training the innovators who will thrive on complex challenges and strive for social justice. Because whether graduates pursue a career in teaching, go into public policy, or create a new field altogether, they will set the stage on which the future will take form.

UM – Student Actuaries at Michigan (SAM)

Student Actuaries at Michigan is an organization for undergraduates and graduates interested in the field of actuarial and financial mathematics. They hold mass meetings at the beginning of every fall and winter semester, but welcome people to join at any point in the year. The club organizes study groups for the professional examinations and coordinates visits to offices of industry recruiters. It also sponsors a variety of athletic and social activities, including ceremonies for graduating seniors.

Susquehanna International Group (SIG)

Dr. Christopher Hammond (PhD 2009), Quantitative Research Analyst for SIG. SIG is a global quantitative trading firm. They commit their own capital to trade financial products around the world. SIG's Quantitative Research team solves the mathematical puzzles found in the financial marketplace while working with vast amounts of data, both formidable and computation, to identify profitable trading strategies.

Top Web Services

Bohan Huang and **Joe Nashif** are with Top Web Services. Top Web Services is looking for candidates with strong quantitative skills to help analyze digital marketing and web analytics data. The mathematical skills they are looking for are analytical skills (being able to identify patterns and draw conclusions from data) and good understanding of statistics.

Waubonsee Community College

Christopher Cunningham (BS 2006) is a Mathematics Instructor at Waubonsee Community College. Christopher is here to discuss careers in college teaching. Two-year colleges had large enrollment spikes during the recession but still remain popular due to low cost and easy transfer of courses. Career opportunities are very limited due to the rise of the adjunct workforce. Masters degree or higher in math required.

Willis Towers Watson

Amber Simon is here with Towers Watson. Willis Towers Watson is a leading global advisory, broking and solutions company that helps clients around the world turn risk into a path for growth. With roots dating to 1828, Willis Towers Watson has 39,000 employees in more than 120 territories. They design and deliver solutions that manage risk, optimize benefits, cultivate talent, and expand the power of capital to protect and strengthen institutions and individuals. Their unique perspective allows us to see the critical intersections between talent, assets and ideas — the dynamic formula that drives business performance. “Together, we unlock potential. “



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The Winners Circle, LLC

Steve Billnitzer (BA 1979) and **Elizabeth Rizzo** are here from The Winner's Circle, LLC. Steve is a co-executive producer and Elizabeth is an executive assistant for the CBS Television Network. Though primarily viewed as providers of entertainment-related employment, the major television networks and cable channels hire hundreds of "back-end" staff with degrees in the computer and actuarial sciences. All six staff members in Steve's former position in the CBS ratings department had advanced math degrees. Measuring, analyzing, interpreting and tracking network ratings data for CBS primetime sitcoms and dramas and those of broadcast competitors. Developing audience projections for all estimating cycles and providing detailed analysis of overall series performance. Establishing objectives and key measures for other projects incorporating strategic business metrics and reporting to management in the areas of rate card management and program scheduling.

UM – Women in Mathematics (WIM)

WIM is a student run club at the University of Michigan dedicated to providing social and educational support for females pursuing mathematics/statistics or those who have strong interest in these subjects. Throughout the year they have monthly meetings and various social events that include study sessions, movie nights, seminars from women in the mathematics field, game nights, and more.