



Mathematics Association of Two-Year Colleges of New Jersey

Fall Newsletter, 2020

Meimee Persau, Editor

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Kelly Fitzpatrick, President

The President's Message

Dear Colleagues,

Welcome back. I am very excited for our Fall 2020 virtual conference, hosted by the County College of Morris on Saturday, November 7th, 2020. This year, our conference theme is **Data Science at a Two-Year College** and I am delighted that our keynote speaker will be Hadley Wickham. Professor Wickham is the Chief Scientist at RStudio, winner of the 2019 COPSS award, a member of the R Foundation, and Adjunct Professor at Stanford University and the University of Auckland. Professor Wickham is a true pioneer in the field of Data Science, as several practitioners utilize his ggplot2 and tidyverse packages. Personally, I am a huge fan of ggplot2 and the way it makes you think! You can check out Wickham's book [R for Data Science](#) to learn more.

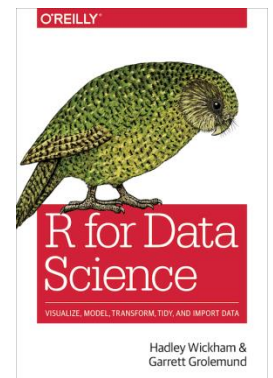
We have a great set of presentations lined up for this meeting and the agenda is included. There are three tracks to the conference; track 1 is data science, track 2 is math presentations and track 3 is virtual / distance education. Prior to the conference please make sure the links are working and you can access them.

Membership dues are collected this year. Please see the form and mailing address in this letter. Please stay informed by visiting our webpage: <http://matycnj.matyc.org/> You can also register for MATYCNJ and the conference here.

I hope you will join us for a very productive and informative Fall virtual conference.

Stay safe and healthy.

Kelly Fitzpatrick
President, MATYCNJ
kfitzpatrick@ccm.edu
<http://matycnj.matyc.org/>





MATYCNJ Fall 2020 Meeting

Saturday, November 7, 2020



DATA SCIENCE SUMMIT

Sponsored by NSF Grant # 2000887

Please register by October 30th at: <http://matycnj.matyc.org/meetinginfo.html>

<i>Time</i>	<i>Session</i>	<i>Presenter</i>	<i>Zoom</i>
9:00 – 9:30 am	<u>Welcome to MATYCNJ Fall Meeting</u>	Kelly Fitzpatrick , President, MATYCNJ Dr. Anthony Iacono , President of CCM Dr. Kathleen Naasz , Dean, School of BMET	Zoom Link 1
9:30 – 10:00am	<u>Updates from AMATYC</u>	Dennis Ebersole , Vice-President, Mid-Atlantic Region	Zoom Link 1
10:15 – 11:00 am	Keynote Speech <u>The Joy of Data Science</u>	Hadley Wickham , Chief Scientist, RStudio	Zoom Link 1
CONCURRENT SESSIONS 11:15 am – 12:00 pm	<u>Data Science at a Community College</u> Expanding Pathways to a Data Science Career by Developing a Certification in Data Science and Analytics NSF Award # 2000887	Kelly Fitzpatrick , Nancy Binowski , Professors, County College of Morris	Zoom Link 1
	<u>Vendor Presentation</u>	Hannah Bullard , Hawkes Learning	Zoom Link 2
	<u>Break the Ice</u>	Andrea Gloetzer , Daniela Kitanska , Professors, Passaic County Com College	Zoom Link 3
12:00 pm – 12:30 pm	Networking Lunch Break	Link will be open for networking and open conversations	Zoom Link 1

12:30 pm – 1:00 pm	<u>Business Meeting</u> Elections will be held at the meeting.	Kelly Fitzpatrick, President, MATYCNJ	Zoom Link 1
CONCURRENT SESSIONS 1:15 – 2:00 pm	<u>Vendor Presentation</u>	Sid Grover, Edfinity	Zoom Link 1
	<u>Math is Magical!</u> Check Out Some Mathemagics!	George Soliman, Professor, Raritan Valley Community College	Zoom Link 2
	<u>Discussion Boards in Blackboard</u>	Heather Wolfgang, Ania Cecala, Professors, County College of Morris	Zoom Link 3
CONCURRENT SESSIONS 2:15 – 3:00 pm	<u>What is Data Science?</u> People buying a left shoe also buy a right one.	Jerry Tuttle, Rocky Mountain College of Art & Design	Zoom Link 1
	<u>Project ACCESS</u>	Samuel Pinkava, Professor, Ocean County College	Zoom Link 2
	<u>Using Virtual Tools to Increase Student Engagement & Participation in the Remote Live Classroom</u>	Ashley Tasy, Professor, Brookdale Community College	Zoom Link 3

Registration (by October 30th): <http://matycnj.matyc.org/meetinginfo.html>

Zoom Link 1: Data Science Track <https://ccm-edu.zoom.us/j/8192653276>

Zoom Link 2: Mathematics Track <https://ccm-edu.zoom.us/j/3371671330>

Zoom Link 3: Virtual / Distance Education Track <https://ccm-edu.zoom.us/j/92675963447>

Please use the **Google Chrome** browser to access **Zoom**.

It is highly recommended that you test your access to these links prior to the Conference to avoid any connectivity issues on the day of the event.

If you require technical support on the day of the Conference, please e-mail the Solution Center:
solutioncenter@ccm.edu

Speaker Biographies and Topics

Welcome and Keynote Presentations for all Conference Attendees:

Welcome Remarks

Presenter: **Dr. Kathy Naasz**

[Dr. Kathy Naasz](#), a role model for females who want to pursue a career in STEM, is currently the Dean of Business, Mathematics, Engineering and Technologies at the County College of Morris, where she is thrilled to bring together engineering, management and technology students for real-world problem solving. From Bell Labs Engineer to Global Executive Director at AT&T to leadership positions in academia, her career has been an intriguing path combining corporate and academic experiences at the crossroads of business, technology, and innovation. She has launched five businesses, led teams in over 14 countries, and speaks three languages. Kathy holds an Ed.D. in Educational Leadership from Centenary University, an M.S. in Engineering Management from Stanford University and a B.S. in Electrical Engineering from Manhattan College. Kathy is proud of her teaching background and was elected by students as “Distinguished Teacher of the Year” (2013). She was named Top 50 Women in Business (NJ Biz 2017) and her research on the impact of innovative spaces on learning received global recognition with the Emerald HETL Outstanding Doctoral Research Award (2018) and the Outstanding Doctoral Dissertation Award (Centenary University 2019). Kathy is passionate about bringing innovation into the classroom, as shown by her research and [TEDx talk](#).

Updates from AMATYC

Presenter: **Dennis Ebersole**, Mid-Atlantic Regional Vice President

Abstract: Virtual Traveling Workshops, grants to cover the cost of these workshops, updates on AMATYC resources during the pandemic, and info on the new grant, NSF IUSE grant, *Teaching for PROWESS: Increasing Student Success in Teaching for PROWESS, Community College Mathematics through Active Learning and Systemic Instructional Change*

The Joy of Data Science

Presenter: **Hadley Wickham**

Biography: Hadley is Chief Scientist at RStudio, winner of the 2019 COPSS award, a member of the R Foundation, and Adjunct Professor at Stanford University and the University of Auckland. He builds tools (both computational and cognitive) to make data science easier, faster, and more fun. His work includes packages for data science (the tidyverse: including ggplot2, dplyr, tidyr, purrr, and readr) and principled software development (roxygen2, testthat, devtools, pkgdown). He is also a writer, educator, and speaker promoting the use of R for data science. Learn more on his website, <http://hadley.nz>

Abstract: Data science and statistics are a vital part of today's data driven society. But doing data science is also fun, and something that gives me great personal enjoyment and satisfaction. In this talk, I'll show you some of the serious and not-so-serious projects that I have used data science for. Along the way, you'll learn a little bit about R, the tidyverse, and how to express yourself through code.

Track 1 Presentations – Data Science:

Expanding Pathways to a Data Science Career by Developing a Certification in Data Science and Analytics – NSF Award #2000887

Presenters: **Kelly Fitzpatrick and Nancy Binowski**, County College of Morris

Abstract: Data Scientist has been the number one “Best Job in America” for the past four years (Glassdoor.com, 2016-2019). The field of data science allows firms to make data driven decisions in order to improve the performance of the firm. Companies are adopting a culture where decisions in marketing, sales, finance and purchasing are driven by the data. Data analytics is an area of strong employment growth. A recent study by McKinsey Global Institute projects approximately 500,000 jobs requiring data analysis skills by 2018, with a projected shortage of approximately 190,000 jobs. Due to this increased demand on data driven decisions there is a shortage of qualified individuals with the skills needed to perform these tasks. There are three main aspects to data driven decisions and they stem from data manipulation, visualization and interpretation. This shortfall in data literacy will be met by this new CCM course, “Introduction to Data Science”. Through the learning objectives laid out in this course students will acquire the data acumen required for jobs in the 21st century. Students will gain the working knowledge of data science through hands on projects and have a toolkit of software under their belts. Students will be learning; Tableau, R, Python, SQL.

Introduction to Edfinity: NSF-supported adaptive online homework system – The best your students can get.

Presenter: **Sid Grover**

Abstract: Attend this workshop to learn how you can create adaptive, affordable online homework for ANY commercial or OER textbook in 24 minutes or less, and why over 250 institutions (including the largest public institutions) have migrated from WebAssign, MyMathLab, ALEKS, and other legacy online homework systems.

Edfinity is a fully adaptive, AI-powered homework system that can be paired with both commercial and OER textbooks - for the entire math curriculum from Developmental Math to Multivariable Calculus and beyond. Edfinity is ADA-compliant, LMS-ready, and uses an open-source problem format (WeBWork). Edfinity supports personalized adaptive learning for corequisite/developmental courses and collaboration for coordinated multi-section courses. Edfinity can help you migrate from any other homework system (e.g. MyMathLab, WebAssign, ALEKS) or pair with any textbook in hours. Student access costs as little as \$14 to \$25 per term inclusive of unrestricted technical support (depending on the courses, level of support, scale of adoption, and features included).

What is Data Science? People buying a left shoe also buy a right one.

Presenter: **Jerry Tuttle**, Rocky Mountain College of Art & Design

Biography: Jerry Tuttle is a long-time New Jerseyan who recently cut the cord and relocated to Florida. He is an online math teacher at Rocky Mountain College of Art & Design, teaching math to arts students. He is a retired insurance company actuary with a BA in math from Queens College and a masters in applied math from University of Virginia. He is a current master's student in Data Analysis at Southern New Hampshire University. He has three grown sons who are all doing well, but none of them inherited the math gene.

Abstract: Your 2020 vision for the future has to include data science. It's a fast-growing career, and more and more schools are offering courses and degrees. The speaker will discuss some popular data science algorithms and some simple datasets that lend themselves to data science. The goal is to introduce the general subject of data science to an audience that likely has heard of it but has not seen any examples.

Track 2 Presentations – Mathematics:

Redefining the Developmental Curriculum

Presenter: **Hannah Bullard**, hbullard@hawkeslearning.com

Abstract: The demands of developmental math courses, coupled with the disconnect and uncertainty experienced during the pandemic, enlarge barriers for the at-risk student population. What are the best strategies to ensure students with a diverse range of skillsets and knowledge meet specific learning objectives while preparing for their future professions?

Walk through popular implementation models and strategies to prepare students for any math pathway. Learn about ways to shape your developmental math course into a multimodal, active learning experience that goes beyond the textbook with guided notebooks, videos, interactive question banks, and more. All attendees will be entered to win a \$25 Amazon gift card!

Math is Magical! Check Out Some Mathemagics!

Presenter: **George Soliman**, Raritan Valley Community College

Abstract: You are invited to a mathemagics show! Discover how you can calculate powers of 11 using just Pascal's Triangle! You may have heard about the 21-card trick, but what about the more mathematically intensive 27-card trick and 25-card trick? There will be special appearances of the fascinating Fibonacci Numbers and the always remarkable magic squares! Plus, even more tricks, which range from as simple as algebra to as complex as discrete mathematics, so there's something for everyone! And yes, all tricks will be revealed, unlike traditional magic! Amaze your students – and even yourselves!

Project ACCESS

Presenter: **Samuel Pinkava**, Ocean County College

Biography: Samuel Pinkava is a current fellow of Project ACCESS and a member of the International Mathematics ANET.

Abstract: AMATYC Project ACCESS is a mentoring and professional development initiative for two-year college mathematics faculty. The project's goal is to provide experiences that will help new faculty become more effective teachers and active members of the broader mathematical community.

<https://amatyc.site-ym.com/page/ACCESS>

Track 3 Presentations – Virtual / Distance Education:

Break the Ice

Presenters: **Daniela Kitanska and Andrea Gloetzer**, Passaic County Community College

Abstract: Imagine you are in a room with a bunch of people you don't know. How does it feel? Now, imagine you are in a room by yourself and a bunch of people are staring at you from your computer screen. How does it feel? Let's break the ice. Icebreakers are quick, low stake interactive activities to help everyone feel comfortable. They create a positive environment and help students relax and have fun in the classroom. The more comfortable students are, the more likely it is that they will actually pay attention and participate in your class. Signaling to students that engagement is important and expected throughout the semester is a great way to establish relationships, not just between students and instructors, but also between students and students. Icebreakers are not only good for the beginning of the semester, but they are also a good way to introduce or reinforce course content throughout the semester.

In this presentation we will present different types of icebreakers that can be easily integrated into the lesson and help to create a community in the classroom.

Discussion Boards in Blackboard

Presenters: **Heather Wolfgang and Ania Cecala**, County College of Morris

Abstract: In online courses, it is essential to create opportunities for interactions between students that are stimulating, allowing them to discover different viewpoints, and providing significance in their lives. One way to achieve this goal is to use discussion boards. In this session, we will discuss a variety of ways to use discussion boards in all levels of math classes and how they can enhance the student experience. Specific examples and grading rubrics will be provided.

Student Engagement in the Virtual Classroom

Presenter: **Ashley Tasy**, Brookdale Community College

Biography: Ashley Tasy is an Associate Professor in the Mathematics Department at Brookdale Community College, where she began her career in 2010. She teaches a variety of courses, ranging from foundational studies through the calculus track. She has spent most of her recent time at Brookdale creating hybrid and fully online modalities for the business math track (Math for Management & Business Calculus) that have been offered at Brookdale since 2017. She is also the current Webmaster for MATYCNJ and was previously Vice President - South for the organization.

Abstract: After mass closures of schools in March 2020 due to Covid-19, every teacher had to become an online teacher overnight. Regardless of modality (whether synchronous or asynchronous), the priority of student participation in this new environment emerged as well. In my presentation, I am going to highlight several engagement ideas I have used in my nearly ten years of online teaching to connect students to content in both the synchronous and asynchronous classrooms.

Please remember to register by October 30th at:

<http://matycnj.matyc.org/meetinginfo.html>

Zoom Link1: **Main Conference and Track 1, Data Science**

Kelly Fitzpatrick is inviting you to a scheduled Zoom meeting. kfitzpatrick@ccm.edu

Topic: MATYCNJ Link 1 Data Science

Time: Nov 7, 2020 09:00 AM Eastern Time (US and Canada)

Join Zoom Meeting

<https://ccm-edu.zoom.us/j/8192653276>

Meeting ID: 819 265 3276

One tap mobile +16468769923,,8192653276# US (New York)

+13017158592,,8192653276# US (Germantown)

Dial by your location

+1 646 876 9923 US (New York)

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 408 638 0968 US (San Jose)

+1 669 900 6833 US (San Jose)

Meeting ID: 819 265 3276

Find your local number: <https://ccm-edu.zoom.us/u/acljExn8pw>

Zoom Link 2: **Track 2, Mathematics**

cchambers@ccm.edu is inviting you to a scheduled Zoom meeting.

Topic: MATYCNJ Conference

Time: Nov 7, 2020 09:00 AM Eastern Time (US and Canada)

Join Zoom Meeting

<https://ccm-edu.zoom.us/j/3371671330>

Meeting ID: 337 167 1330

One tap mobile +16468769923,,3371671330# US (New York)

+13017158592,,3371671330# US (Germantown)

Dial by your location

+1 646 876 9923 US (New York)

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+1 312 626 6799 US (Chicago)

+1 408 638 0968 US (San Jose)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

Meeting ID: 337 167 1330

Find your local number: <https://ccm-edu.zoom.us/u/acr6HO5Rau>

Zoom Link 3: **Track 3, Virtual / Distance Education**

Anna Cecala is inviting you to a scheduled Zoom meeting. acecala@ccm.edu

Topic: Zoom Link 3: Virtual/Distance Education Track

Time: Nov 7, 2020 11:00 AM Eastern Time (US and Canada)

Join Zoom Meeting

<https://ccm-edu.zoom.us/j/92675963447>

Meeting ID: 926 7596 3447

One tap mobile +13126266799,,92675963447# US (Chicago)

+16468769923,,92675963447# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

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+1 346 248 7799 US (Houston)

+1 408 638 0968 US (San Jose)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

Meeting ID: 926 7596 3447

Find your local number: <https://ccm-edu.zoom.us/u/acWtCDgGBa>

Executive Committee of MATYCNJ

President Kelly Fitzpatrick County College of Morris kfitzpatrick@ccm.edu	Treasurer Lenore Lerer Bergen Community College llerer@bergen.edu
President-Elect Karina Ochs Brookdale Community College kochs@brookdalecc.edu	Vice-President North Daniela Kitanska Passaic County Community College dkitanska@pccc.edu
Newsletter Editor/Historian Meimee Persau County College of Morris mpersau@ccm.edu	Vice-President South Jonathan Weisbrod Rowan College at Burlington County jweisbrod@rcbc.edu
Webperson Ashley Tasy Brookdale Community College atasy@brookdalecc.edu	Recording Secretary Andrea Gloetzer Passaic County Community College agloetzer@pccc.edu



Mathematics Association of Two-Year Colleges of New Jersey BUSINESS MEETING MINUTES Spring 2020

Due to the outbreak of the coronavirus, the Spring 2020 Conference at Rowan University was cancelled. Therefore, the MATYCNJ Business Meeting was also cancelled.



Mathematics Association of Two-Year Colleges of New Jersey BUSINESS MEETING AGENDA Fall 2020

A full agenda will be forthcoming. Elections for 4 open positions will be conducted at the end of the meeting. Should you wish to submit additional candidates, please submit the name and the school for the specified position to: Professor Kelly Fitzpatrick, President, MATYCNJ at kfitzpatrick@ccm.edu.

A TREMENDOUS THANK YOU to PROFESSOR LENORE LERER, from Bergen Community College, who has served continuously as the MATYCNJ Treasurer since 2009. Much gratitude for 12 dedicated years of exceptional service!!!!

ELECTIONS

Term of June 1, 2021 – May 31, 2023

Vice-President South:

Current Candidates: **Jonathan Weisbrod (Rowan College at Burlington)**
Samuel Pinkava (Ocean County College)

Treasurer:

Current Candidate: **George Soliman (Raritan Valley Community College)**

Newsletter Editor / Historian:

Current Candidate: **Meimee Persau (County College of Morris)**

Webmaster:

Current Candidate: **Ashley Tasy (Brookdale Community College)**

MATYC NJ College Representatives

2020 – 2021

	School	Name
1	Atlantic Cape Community College	
2	Bergen Community College	Tracy Saltwick
3	Brookdale Community College	Sally Mulvey
4	Rowan College at Burlington County	William Whitfield
5	Camden County College	Tuan Le
6	Cumberland County College / Rowan College at Gloucester Co.	Adrian DeWindt-King / Michelle Briles
7	Essex County College	Mamta Vyas
8	Hudson County Community College	Ted Lai
9	Mercer County Community College	Daniel Bielskie
10	Middlesex County College	Guy Reynolds
11	County College of Morris	Meimee Persau
12	Ocean County College	Krista Camilo
13	Passaic County Community College	Janet Delaney
14	Raritan Valley Community College	George Soliman
15	Salem Community College	
16	Sussex County Community College	Mary DeHart
17	Union County College	Susan McLoughlin
18	Warren County Community College	

Many thanks to this group of volunteers! *These folks send in your Campus News, distribute MATYC NJ information to members in your department, and encourage their colleagues to join and attend MATYC NJ meeting. Should you become a Campus Representative, please let the Editor know.*

46th AMATYC Annual Conference

AMATYC – American Mathematical Association of Two-Year Colleges

Conference Theme: Virtual Vision for the Future!



FREE 2020 AMATYC Virtual Conference **FREE**

 Friday, November 6 Hosted by Hawkes	 Friday, November 13 Hosted by McGraw-Hill	 Friday, November 20 Hosted by Wiley
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**Thanks to our Corporate Partners,
the Virtual Conference is FREE and open to all!
Registration details coming soon.**



Registration Information Forthcoming Online At:

<http://www.amatyc.org/page/2020ConfHome>

AMATYC Project ACCESS will take a one-year sabbatical.



Fall 2020 – Spring 2021 Membership Form for MATYCNJ

Note: MATYCNJ membership is only required once/year.

Please Print:

Date _____ Academic Year 2020 - 2021

E-Mail Address _____

Name _____ Cell Phone _____

College _____ Business Phone _____

College Address _____

City _____ State _____ Zip _____

Other Affiliations:

MAA _____ AMATYC _____ ASA _____

May we publish your name and college address in our membership list? Yes / No

Please return completed form with **\$10.00 membership fee** to:

Prof. Lenore Lerer
Department of Mathematics
Bergen Community College
400 Paramus Road
Paramus, NJ 07652
llerer@bergen.edu

Will you be attending the Virtual Fall 2020 Conference? Yes / No

If so, please return this form, with your payment, by **October 30, 2020**.

You may also register at <http://matycnj.matyc.org/meetinginfo.html>.