Andrew Mecchi

Research and Data-Driven Behavioral Support Paraprofessional

My Contact

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🌐 https://andrew-mecchi.github.io

Technical Skills

- Python
- SQL
- Tableau
- Excel
- GitHub

Specialties

- Data Visualization and Analysis
- Data Modelling
- Data Management
- Process Optimization
- Automated Technologies

Education

Western Governors University
Masters in Data Analytics
February 2024

Villanova University
*Bachelor of Science in Biology
Minor in Business*
May 2006

About Me

With over 10 years of experience in Clinical Research and Education, I am a dedicated professional who is passionate about data-driven decision-making. I possess excellent analytical and visualization skills that enable me to deliver actionable insights and promote growth. I am excited to bring my unique perspective to any team that values data analysis and innovative problem-solving.

Professional Experience

Carroll County Public Schools | Paraprofessional, Behavioral Support
September 2022 – Present

- Design and collect behavioral data and engage staff in assessing results to create plans for appropriate behavioral support
- Prepare reports and visualizations for Student Support Team
- Use data insight to suggest student-specific strategies
- Provide student support through collaborative planning, modeling, and coaching

Carroll County Public Schools | Quarantine Success Coach | BEST Behavioral Support
January 2022 – September 2022

- Volunteered to provide support for the Behavioral Education Support Team (BEST) in addition to Quarantine Success Coach duties
- Monitor students and update Individual Behavior Documentation to assist teachers with students' Individual Education Plans
- Maintain an active list of quarantined students and provide them with the necessary information to complete school work remotely

Pinnacle CT Labs | Microbiology Analyst
May 2021 – November 2021

- Responsible for tracking, testing, and quality control of medical cannabis
- Perform microbiological assays for TYMC, TAC, Salmonella, E. coli, Coliform, and Listeria using qPCR and plating techniques
- Analyze qPCR data, extrapolate growth plate assays, and report results
- Design and perform validation for compliance with the Maryland Medical Marijuana Commission
- Assist with writing and updating Standard Operating Procedures

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Achievements

2022 Leveraged research and data background to design, implement, and maintain in-house statistics of students to assist with individual education and behavioral support plans.

2021 Transitioned microbiological quality control analytics from qPCR to plating techniques.

2009 – 2014 Led DNA Extraction Lab within three months of hire, processed more than 18,000 samples, and transitioned manual extraction methods to automated platforms.

2006 – 2009 Established and eliminated freeze-thaw sample loss through the design of alphanumeric records for studies and sample freezer contents. Identified, inventoried, and reconciled ~4,000 quality control samples of samples investigators identified as missing.

Professional Experience (continued)

Carroll County Public Schools | Substitute Teacher
April 2017 – January 2020

- Instruct students using lesson plans for Elementary, Middle, and High Schools throughout Carroll County
- Manage classroom sizes of 25-35 students
- Elucidate subject matter for students with Individualized Education Plans

Leidos Biomedical Research | Research Associate
November 2009 – March 2014

- Lead operations of DNA Extraction lab
- Oversaw extraction process for multiple studies and determined best methods for material type
- Co-designed automated script for Freedom EVO 100 to run ReliaPrep chemistry
- Design and run pilot studies for new material types introduced to the extraction lab pipeline
- Write Standard Operating Procedures for all extraction platforms

SAIC-Frederick | Research Technician
November 2006 – November 2009

- Process whole human blood into component fractions for clinical studies
- Enter sample data into Biological Specimen Inventory for multiple studies