Andrew Mecchi

Research and Data-Driven Behavioral Support Paraprofessional

My Contact

✉ data.at.large@gmail.com

🌐 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