Principal Process Data Scientist Begeneron Pharmaceuticals		https://mnatolejr.com (518) 421 5121		
East Greenbush, NY		mnatole.jr@m	ne.com	
SUMMARY	• Data Scientist with strong math/statistics background and 3+ years of experi- ence that can quickly adapt to the application domain.			
	• Strong analytical and pro- using data and machine le	blem-solving abilities, wi earning models to drive b	th a proven track record of usiness decisions.	
	• Skilled in using a variety of R, SQL, and Power BI.	f programming languages a	and tools, including Python,	
EXPERIENCE	Principal Process Data Scientis Regeneron Pharmaceuticals, Re	t ensselaer, NY al and statistical tashni	January 2024 - Present	
	<ul> <li>Apply advanced numeric analysis, deep learning, an cess and raw materials da</li> <li>Apply data visualization - useful information for ope</li> <li>Played a key role in leading develop strategies and solu- monitoring process and termonitoring process and termonitoring</li> </ul>	<ul> <li>Apply advanced numerical and statistical techniques including multivariate analysis, deep learning, and ensemble models to analyze large datasets of process and raw materials data to enhance process understanding.</li> <li>Apply data visualization tools and automated solutions to translate data into useful information for operations managers and process engineers.</li> <li>Played a key role in leading cross functional teams to analyze data sources and develop strategies and solutions for to support the manufacturing performance monitoring process and technical investigations.</li> </ul>		
	Sr. Process Data Scientist	wasaloor NV	July 2021 - December 2023	
	• Streamlined data processo tions.	es to better help colleagu	ies assisting with investiga-	
	<ul><li> Applied machine learning models to improve process understanding.</li><li> Built a data science team to assist colleagues and provide future directions to leadership.</li></ul>			
	Adjunct Instructor Hudson Valley Community Coll • Taught various introductor	lege, Troy, NY ory math courses.	January 2019 - May 2021	
	Adjunct Instructor, Level II	w Callara, Sahanastadu N	January 2018 - Present	
	<ul> <li>Taught various freshman and sophomore level math courses in different modal- ities including in-person, online, and hybrid.</li> <li>I place an emphasis on building online courses that are accessible</li> </ul>			
	Teaching Assistant / Instructor Mathematics Department, Univ	<ul> <li>/ Lecturer</li> <li>versity at Albany, Albany,</li> </ul>	August 2013 - May 2021 NY	
TECHNICAL SKILLS	Hard Skills: Machine Learning ( metrics), Data Analysis (acquis of Experiments	classification, regression, sition, aggregation and re	factor analysis, performance eporting), Statistics, Design	

Soft Skills: Make complex technical concepts approachable for colleagues without expertise in technical domains; Strategize long-term scientific business goals; Self-motivated and ability to work autonomously.

Design Principles: FAIR (Findable, Accessible, Interoperable, Reusable) Practices, Data Governance, Good Manufacturing Practice (GMP)

Programing Languages: Python, MATLAB, R, LaTeX, HTML, CSS, Git, SQL

Tools: Dataiku, Tableau, Git, MS Office, JMP, SIMCA, Power BI, VS Code

**PUBLICATIONS** M. Natole, Y. Ying, A. Buyantuev, M. Stessin, V. Buyantuev, and A. Lapenis. Patterns of Mega-Forest Fires in East Siberia will become Less Predictable with Climate Warming. *Environmental Advances, 2021.* 

M. Natole. Fast Optimization Algorithms for AUC Maximization Dissertations & Theses @ SUNY Albany; ProQuest Dissertations & Theses Global, 2020

M. Natole, Y. Ying, and S. Lyu. Stochastic AUC Optimization Algorithms with Linear Convergence. *Frontiers, in Applied Mathematics and Statistics*, 2019.

M. Natole, Y. Ying, and S. Lyu. Stochastic Proximal Algorithms for AUC Maximization. International Conference of Machine Learning (ICML), 2018.

**PROJECTS** Wildfire Prediction Analysis: Using climatic, anthropogenic, and landscape variables, determine the significant factors that lead to wildfires using spatial data.

TALKS &	Pharmaceuticals from A Mathematician's View
PRESENTED	UAlbany Math Club
WORK	Albany, New York
	April 2023

Fast Algorithms for AUC Maximization Joint Mathematics Meeting (JMM) Baltimore, Maryland January 2019

Stochastic Proximal Algorithms for AUC Maximization International Conference of Machine Learning (ICML) Stockholm, Sweden July 2018

Stochastic Proximal Algorithms for AUC Maximization Graduate Mathematics Conference Syracuse University March 2018

 AWARDS &
 Travel Award, July 2018

 RESEARCH
 The award was used to attend the ICML conference in Stockholm, Sweden.

 SUPPORT
 Outstanding Act of Service, 2016, 2018, 2019

 Department of Mathematics, University at Albany

**EDUCATION** Doctor of Philosophy, Mathematics University at Albany, Albany, NY, May 2020

> Master of Arts, Mathematics University at Albany, Albany, NY, December 2015

Bachelor of Science, Mathematics University at Albany, Albany, NY, May 2013

Associate of Science, Engineering Science Fulton-Montgomery Community College, Johnstown, NY, May 2011