

NICHOLAS VAN NEST

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<https://github.com/vannestn>

EDUCATION

Stony Brook University Stony Brook, NY

Master of Science in Biomedical
Engineering (MS), GPA: 3.64/4.00
MAY 2019

Bachelor of Engineering in
Biomedical Engineering (BE),
GPA: 3.69/4.00, (ABET Accred.)
MAY 2018

CERTIFICATIONS

Professional in Data Science IBM Certification Program: Pending: April 2020-Present

- Tools for Data Science
Completed: September 2020
- Data Science Methodology
Completed: October 2020
- Python for Data Science and AI
Completed: October 2020
- Databases and SQL for
Data Science
Completed: October 2020
- Data Analysis with Python
Completed: November 2020

Dataiku Core Designer Dataiku Data Science Studio Completed: July 2020

CORE SKILLS

- Jupyter Notebooks
- SQL
- Python
- Tableau
- AI & Machine Learning
- MATLAB
- SPSS Statistics
- Dataiku
- Statistical Analysis
- Database QC
- Mathematical Modelling
- Data Visualization
- Market Research

PROFILE

” Result-oriented Data Scientist with 5+ years of research in academic and pharmaceutical settings, and experience generating and analyzing data for two clinical trials. Skilled in SQL, Python, and JupyterLab. Actively exploring new methods in AI and deep learning.

WORK EXPERIENCE

Scientist II, Early Clinical Development | 100% Remote for 2 months

Pfizer, Groton, CT / May 2019-July 2020

- Provided technical and scientific support for biomarker data generation for discovery and regulated preclinical and clinical biomarker studies supporting Pfizer drug development using multi-color flow cytometry (FACS) and related technologies.
- Performed all phases of laboratory operations including technology evaluations, sample preparation, data collection, data wrangling, analysis, interpretation, reporting, and follow up discussions with the project teams on utilizing the data in decision making.
- Participated in continuous improvement of scientific and regulated processes via update/creation of standard operating procedures, design and implementation of laboratory and study-based processes, and development of best practices for bioanalytical data generation, analysis, and QC.
- Developed clinical database QC strategy and created automation software to detect discrepancies for removal.

Business Analyst | The Fundamentals of Bioscience Industry Program

The Center for Biotechnology, Stony Brook, NY / January 2019-May 2019

- Produced product-to-market analysis report of novel ELISA diagnostic assay for latent and active tuberculosis infections.
- Pitched commercialization strategy to stakeholders that detailed market analysis and positioning, technology assessment, production and licensing strategy, and FDA regulatory approval process.

Graduate Researcher | Principal Investigator: Dr. Gabor Balazsi

Laufer Center at Stony Brook University, Stony Brook, NY / January 2018-May 2019

- Developed a mathematical model of gene expression in genetically engineered biological systems using MATLAB programming to solve differential equations and visualize data trends.
- Engineered mammalian cell lines using CRISPR/Cas9 to insert recombinase mediated cassette exchange (RMCE) landing pads that could reliably accept plasmid cassettes.

Undergraduate Researcher | Principal Investigator: Dr. Yi-Xian Qin

Stony Brook University, Stony Brook, NY / October 2016-January 2018

- Predicted mechanisms of intervertebral disc degeneration using finite element analysis model.
- Wrote Python script that successfully interfaced with Abaqus CEA database to streamline data processing.
- Poster presentation: "Finite Element Analysis of Intervertebral Disk Herniation using a Poroelastic Model." BMES 2017.
- Performed mechanical testing of human knee cadavers for creep analysis and determination of material properties.

Makerspace Associate

iCreate Makerspace, Stony Brook University, NY / February 2016-May 2019

- Advised visitors in electromechanical prototype development for the iCreate makerspace, a workshop for the development of commercial and educational products, using 3D printers, CNC routers, laser cutters, soldering and woodshop equipment.
- Planned and generated cost analysis sheets for new technologies to optimize operations and drive customer engagement.

Efficiently adopting new technology quickly and independently.