Arthur Starodynov

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EDUCATION

Columbia University May 2025
M.S. Biostatistics
University of California - Santa Barbara March 2023
B.S. Statistics and Data Science
B.S. Biological Sciences
Coursework Stochastic Processes, Statistical Machine Learning, Python, R, SQL, SAS for Data Science

SKILLS

- Python (NumPy, Pandas, PyTorch, TensorFlow, Keras, Flask), R (ggplot2, dplyr, shiny)
- SQL (MySQL), Tableu, AWS, SAS, Git, Microsoft Excel, Hadoop
- Regression modeling, neural networks, data mining

WORK EXPERIENCE

Research Data Analyst
Cottage Hospital December 2021 – Aug 2023
- Developed a statistical model, with use of PyTorch, that predicted mortality, hospitalization, and reacquisition rate of COVID-19 infections using patient data with an 80% accuracy.
- Used SQL to clean over 100,000 data entries of 50+ data sets.

Research Assistant
UCSB Moeller Lab January 2020 – November 2021
- Developed likelihood functions from large databases in Mathematica and R to run experimental drugs into large agricultural pest databases that produced confidence intervals of successful variable intervention.
- Developed algorithms and 3D models to look at continuous probability distributions formed from parametrized models for use in a research paper to predict the fecundity of *Drosophila Suzukii* tested against 3 different predictor variables.

Medical Assistant
Sansum Clinic Endocrinology June 2021 – Present
- Perform non-invasive procedures (e.g. blood draws, lab work), assist doctors in office procedures and injections, administrative work, and patient prescription management.
- Assist in examination and treatment of patients under the direction of a physician, correspond with patients, and develop patient after-visit reports.

PUBLICATIONS & PROJECTS

Git Hub | Past Projects | https://github.com/arthur-starodynov/Compiled_Projects.git
Molecular Devices Cell Developmental Assay
- Multi-parametric Image Analysis of Cell Hepatocytes using various staining procedures
- *"Multiplexed High Content Assays for Predictive Hepatotoxicity using Induced Pluripotent Stem Cell Derived Hepatocytes" (https://rb.gy/szky2d)*