

Owen Langejans

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Education:

University of Michigan, Ann Arbor

Class of 2022

College of Literature, Science, and the Arts, Bachelor of Science in Actuarial Mathematics & Data Science

- Cumulative GPA: 4.00, James B. Angell Scholar, Member: Student Actuaries at Michigan
- M.S. Keeler Department of Mathematics Merit Scholarship, Noah & Pauline M. Sherman Scholarship

Actuarial Exams:

- Passed Exam P (January 2019), Exam FM (June 2019), Exam IFM (July 2020)
- Taking Course for Exam MAS I, and eligible for VEE in Economics

Work/Leadership Experience:

Actuarial Analytics R&D Intern | **Auto-Owners Insurance** | Remote June 2020 – Present

- Investigated NOAA hail data sources to determine relevance for predicting the presence of hail
- Queried claims data, policy location data, and NOAA hail data, and explored trends within the data using univariate and multivariate analysis, as well as geospatial analysis
- Utilized several high-performance python packages to analyze and model data, including numpy, pandas, geopandas, pyodbc, shapely, rtree, sklearn, s3eezy, matplotlib, and descartes
- Created a model to project the number of hail claims using trends found in the data, aiding the claims division in making business decisions for claims adjustment (ongoing)

P&C Actuarial Intern | **Farm Bureau Financial Services** | Des Moines, IA May 2019 – August 2019

- Implemented a web scraper to download, sort, and search through rate filings from ratefilings.com in order to uncover competitors' rates for certain products
- Utilized the web scraper to analyze competitors' discounts for Internet of Things devices and investigate competitors' rates for care, custody, or control liability insurance, contributing to pricing recommendations for expanding products
- Automated several personal lines Indication processes with VBA, eliminating thousands of repetitive clicks, preventing human error, and saving several days every quarter
- Utilized VBA to streamline other monotonous processes, like comparing thousands of current and proposed factors for a rate change determining which Ratabase tables to update

Database and Reporting | **Forensic Fluids Laboratories** | Kalamazoo, MI January 2017 – May 2019

- Exported lab reports from an old system by developing an AutoHotkey Script, saving the company several thousand dollars in contracting work and licensing costs
- Automated several monotonous monthly billing procedures, considering the different billing prices and invoice formats for hundreds of customers, saving two days per month for accounting
- Supported back-end development of the company's new custom web portal, with migration of data from a foreign system into our system as well as building SSRS reports to replace the old reporting environment
- Created employee performance tracking dashboards to measure speed and error metrics, allowing department managers to keep track of their team's performance and quickly resolve issues

Software Skills:

- Proficient in Excel VBA, MS SQL Server, Oracle, Python, SSRS, C++, and Java

Additional:

- Awarded the 2020 Casualty Actuarial Society Trust Scholarship
- Received the CIGNA Actuarial Award for outstanding academics and professional accomplishments
- Business Manager of Phi Alpha Kappa: leasing manager, and manage finances & accounting
- Vice President of Phi Alpha Kappa: coordinate pledge recruitment