

CHARLES F. INGULLI III

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WORK EXPERIENCE

Total Systems Technologies Corporation

Arlington, VA

- A government contracting firm that provides professional services to clients and partners in areas such as program management, cybersecurity, and analytics.

Data Scientist

February 2021 - Current

- Lead the creation of quarterly risk assessment deliverables through automated data aggregation and visualization processes using Excel Power Query to reduce overall computation time by over half.
- Refine the client's risk methodology in order to improve the accuracy of estimates, such as implementing suggested calculation changes that were approved by an independent verification and validation team.
- Support the development of a pathway model by constructing tree diagrams to visualize the various available paths, ensuring the accuracy of probability calculations along the network, and implementing Monte Carlo methods for simulation.

RELEVANT KNOWLEDGE

Languages: R, Python, SQL

General: Excel (Microsoft Office Specialist), Power Query, LaTeX, Git

REFEREED TALKS

Symposium on Data Science and Statistics 2024: "An Analysis of Low Back Pain with Associated Risk Factors Through the Implementation of Multi-State Markov Models"

SELECTED PROJECTS

Multi-State Model Analysis of Low Back Pain

- Analyzed associations between low back pain and relevant risk factors using a multi-state model to estimate probabilities providing insights to collaborators in the field of ergonomics on transition states.
- Conducted extensive data cleaning, visualization construction, and model building to produce meaningful results that are summarized and interpreted in various reports and presentations.

wlsd: Wrangling Longitudinal Survival Data

- Developed an R package that provides functions to transform data sets into different workable formats for survival analysis reducing data preparation time by automating processes.
- Aligned package development with requirements for formal submission, such as following proper coding practices, including relevant documentation files, writing tutorial vignettes, creating unit tests, and supplying data sets.

EDUCATION

Master of Science - Statistics

December 2020

Graduate Certificate - Data Science

American University, Washington, DC

Bachelor of Science - Mathematics and Economics

May 2018

American University, Washington, DC