

CHARLES F. INGULLI III

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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	

RELEVANT KNOWLEDGE

Programming Languages:	R, Python
Coursework Topics:	Probability, Regression, Survival Analysis, Machine Learning
General Tools:	Excel (Microsoft Office Specialist), Power Query, LaTeX, Git

SELECTED PROJECTS

Multi-State Models of Low Back Pain

- Evaluate data collected from various cohort studies to quality check values, verify their application to the relevant models, and prepare them for use in analysis.
- Conduct extensive literature review of current publications to assess any meaningful results in associated risk factors or ongoing efforts to similar analysis.
- Implement a variety of multi-state models with different state spaces and covariates accounting for increased model complexity in estimation procedures.
- Compiling relevant results into workable manuscripts with added interpretation for future publication.

wlsd: Wrangling Longitudinal Survival Data

- Develop an R package that provides support in survival analysis for longitudinal or panel data.
- Provide functions for creating state variables, transitioning to different data formats, and streamlining data preparation before analysis.
- Ensure package meets requirements for CRAN submission such as citing proper coding practices, including documentation files, writing tutorial vignettes, creating unit tests, and adding data sets.

WORK EXPERIENCE

Total Systems Technologies Corporation	<i>Arlington, VA</i>
<i>Case Study Analyst</i>	February 2021 - Current

- Streamline the analysis of data through centralized workbooks that automate the computation of metrics and graphics for easier accessibility of information for deliverables.
- Lead the production of presentation materials for quarterly risk assessments using the results from current methodologies aggregated and visualized via Power Query.
- Oversee statistical components to analysis methodology to ensure accuracy in updates.
- Collaborate closely with validation and verification teams to discuss advancing risk methodologies through various techniques and approaches.
- Update the encounter rate methodology to improve accuracy of overall encounter calculations while also correcting formula implementation.