

Jeremy B Provance, PhD, MS

Data Scientist

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Qualifications Summary

- Experienced health informatician working with electronic health record and registry databases to perform cardiovascular outcomes research
 - Expertise in predictive modeling and visualization using relational and flat databases with both distributed and non-distributed computing platforms
 - Deep knowledge of using health data for effective analysis and communicating results to a broad range of stakeholders
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Experience

Postdoctoral Associate, Yale University School of Medicine

June 2021-Present

- Derived a research data warehouse from an EPIC electronic health record data lake under Spark Hadoop processing and OMOP architecture
- Conducted analysis and automated reporting using institutional research data warehouses, national observational registries, and CMS databases
- Managed data capture and quality for multi-site clinical registries

Doctoral Candidate, University of Missouri-Kansas City School of Medicine

August 2017 – May 2021

- Derived a research data warehouse from the national Cerner Health Facts electronic health record database (63 million patients, > 1 billion observations) for dissertation research use
 - Conducted research into the quality of care and outcomes for patients with cardiovascular disease, which has been presented at international conferences and published in high-impact, peer-reviewed journals
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Education

Doctor of Philosophy, Bioinformatics | University of Missouri-Kansas City School of Medicine | 2021

Master of Science, Bioinformatics | University of Missouri-Kansas City School of Medicine | 2017

Bachelor of Arts, Molecular Biology | William Jewell College | 2014