

JUSTIN WATERFIELD, MMCi

Durham, NC

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[LinkedIn](#)

PROFILE

Experienced healthcare data specialist with expertise in data standardization, automation, informatics, and automated AI workflows. Skilled in data mapping, claims analysis, and electronic healthcare record interoperability. Proven leadership capabilities in team mentorship, agile project management, and cross-functional collaboration. Committed to continuous learning, process optimization, and driving efficiency through innovative solutions.

DATA SKILLS

Data Standards: HL7, FHIR, OMOP, Healthcare Claims/Eligibility, Insurance Claims

Data Operations: ETL, Databricks, AWS S3, Apache Airflow, GxP/SOP/CAPA

Programming & Tools: SQL, Python, Shell, Github, PowerBI, Tableau, REDCap, VSCode, Anaconda

Methodology: Agile Development (SAFe/Kanban), Data Mining, Machine Learning, AI-assisted workflows

[GitHub Portfolio](#)

EDUCATION

DUKE UNIVERSITY, School of Medicine, Durham, NC

Master of Management in Clinical Informatics, 2020, 3.7 GPA

Practicum: [Evaluate a Duke Health Technology Services Transition to a Revenue Generating Business Model](#)

WINTHROP UNIVERSITY, Rock Hill, SC

Bachelor of Science in Biology, 2009

PROFESSIONAL EXPERIENCE

Cotiviti, Durham, NC (Remote)

2024 - Present

Data Standardization

Senior Data Solutions Specialist

- Optimized data mapping processes, integrating AI-driven automation to enhance data integrity and operational efficiency
- Successfully completed mapping of a major client project into a proprietary format within six months, receiving recognition for accuracy and minimal revision requirements
- Developed standardized operating procedures (SOPs), templates, and process enhancements, such as nested mapping columns, improved raw column tracking, and join tab structures, adopted team-wide
- Streamlined validation processes for deduplication and join logic, aligning with legacy systems, significantly reducing migration timelines.
- Mentored and trained team members, driving innovation and continuous learning through the integration of foundational AI tools

healthverity, Philadelphia, PA (Remote)

2022 - 2024

Data Operations

Data Operations Support, Manager (2022-2024)

- Lead daily stand-up meetings and manage agile work development using Kanban methodology
- Monitor and troubleshoot over 80 data ingestion pipelines daily, resolving issues within a 24–48-hour timeframe
- Oversee the data warehouse, including hundreds of high-priority data feeds
- Create and maintain data feeds and tiles for utilization in the company's marketplace
- Manage the support team handling company-wide data-related issues, including monitoring portal requests and performing data curation for data quality review
- Develop and maintain GxP, SOP, and CAPA documentation related to Data Operations

RTI International, RTP, NC

2020 - 2022

GenOmics, Bioinformatics, and Translational Research Center Biostatistics and Epidemiology Division

Bioinformaticist, Systems Analyst 3 (2020-2022)

- Working group manager for the PhenX Psychosocial & Social Determinants of Health Working Group
- Project Member of the BRAIN Initiative; work with NIH, NCBI, NHGRI
- Develop and review microscopy ontologies and metadata standards
- Prepare, analyze, and visualize data across biomedical domains
- Ensure datasheet quality, development, and deployment for the PhenX Toolkit
- HL7 and healthcare/EHR data subject matter expert

DUKE UNIVERSITY HEALTH SYSTEM, Durham, NC

2009 - 2020

Molecular Pathology

Medical Laboratory Scientist, Advanced (2009-2020)

- Analyzed and assessed over 600 clinical patient samples annually using Surgical Pathology Electron Microscopy (SPEM) to aid pathologists in diagnosing infectious diseases
- Prepared and verified EM diagnostic virology samples, contributing to clinicians' patient diagnosis process

Beaker Super User (2018-2020)

- Managed all Beaker accessioning and troubleshooting, addressing Beaker-related issues promptly to ensure smooth operations
- Engaged in EHR tasks related to patient care, resolving system challenges, and optimizing workflow efficiency
- Conducted testing in a controlled environment to prepare for upcoming production releases, ensuring seamless integration and functionality

ACADEMIA

Duke University, Durham, NC

Master of Management in Clinical Informatics

College of Medicine

Co-Mentor Student Practicum: Develop a model to unify the data elements in FHIR & OMOP (2022-2022)

- Collaborated with Dr. Ed Hammond to guide a group of graduate students in completion of their master's practicum (thesis) project:

Proposed a shared data model to unify variables and data models, aiming to streamline the costly and time-intensive process of mapping. The project focused on aligning data elements within FHIR and OMOP frameworks, necessitating modifications to both models. The objective was to produce comprehensive documentation outlining the approach to achieve this goal, enabling other stakeholders to leverage and build upon the initiative.

Data Science Teaching Assistant (2020-2021)

- Assisted with instruction in data science fundamentals, machine learning, AI applications, and data visualization.

PUBLICATIONS

Ha CI, Desai AK, **Waterfield J**, Kazi ZB, Austin SL, Bossen EH, Kishnani PS, Buckley AF. (2017). Outside the fiber: interstitial pathology of skeletal muscle in infantile Pompe disease. *Molecular Genetics and Metabolism*, 1(120), S60-S61. DOI: 10.1016/j.ymgme.2016.11.136

Ropelowski, A. J., Rizzo, M. A., Swedlow, J. R., Huiskens, J., Osten, P., Khanjani, N., ... & Huggins, W. (2021). Essential metadata for 3D BRAIN microscopy. *arXiv preprint arXiv:2105.09158*.

Weiss KR, Huiskens J, Khanjani N, Bakalov V, Engle ML, Krzyzanowski MC, Madden T, Maiese DR, **Waterfield JR**, Williams DN, et al. (2024). T-CLEARE: a pilot community-driven tissue clearing protocol repository. *Frontiers in Bioengineering and Biotechnology*, 12, 1304622. DOI: 10.3389/fbioe.2024.1304622