

JOHANNA F. D. MOMOLE

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 [GitHub](#) |  [LinkedIn](#)

EDUCATION

University of Pennsylvania – Perelman School of Medicine

Master of Biomedical Informatics (GPA 3.81/4.00)

2026

Philadelphia, PA

- Honors: LPDP Scholarship Awardee (full-ride merit scholarship).
- Coursework: Data Science for Biomedical Informatics, Statistics for Genomics & Biomedical Informatics, Databases in Biomedical Research, Clinical Research Informatics in the Cloud, Standards & Clinical Terminologies (ICD, SNOMED CT, LOINC, RxNorm), Foundations of AI in Health, Human Factors

Bandung Institute of Technology (ITB)

Bachelor of Science in Biology | Specialization in Genetics & Molecular Biology

2020

Bandung, Indonesia

SKILLS & INTERESTS

- **Analytics & Programming:** SQL, R, Python, PostgreSQL, Excel, working knowledge of SAS, Stata, Tableau, Power BI; data wrangling, EHR/RWD analysis, cohort building, structured query writing, pipeline development, statistics, regression, hypothesis testing, model evaluation, learning new coding language.
- **Clinical Informatics & RWE:** Large relational healthcare databases and multi-million-row datasets; clinical concept translation, clinical notes/concept extraction, feasibility analyses, patient population summaries, terminology mapping, data quality checks, and data source veracity investigation.
- **Partner Solutions & Delivery:** Life sciences customer support, technical analytics support, customer analysis scoping, troubleshooting, status reporting, enablement materials, stakeholder communication, cross-functional collaboration, product feedback, and rapid adaptation to proprietary coding languages.
- **Capstone Project (Pharmacovigilance Analytics):** Built a sex-stratified safety signal detection workflow for GLP-1 therapies using FAERS (data harmonization, deduplication, PostgreSQL pipeline, and disproportionality analysis in R + Python).

PROFESSIONAL EXPERIENCE

Penn Graduate Consulting Club

Business Analyst - CIRCA (Conversational AI for early pregnancy care)

2026 – Present

Philadelphia, PA

- Build an economics model comparing ED vs ambulatory pathways and documented assumptions for decision-makers.
- Evaluate payer and enterprise customer segments, translated value drivers into prioritized recommendations, and produced client-ready decks and written reports.
- Run sensitivity analyses across unit costs, utilization, adoption, and diversion rates to communicate findings to technical and non-technical stakeholders.

Siloam Hospitals

Network & Relation Executive (Healthcare Analytics & Strategy)

2022 – 2024

Jakarta, Indonesia

- Analyzed provider-referral, service-line, utilization, market, and cost data using SQL, Excel, SAS, and Salesforce to identify process optimization opportunities.
- Partnered with IT, clinicians, vendors, and leadership on EMR implementation; captured requirements, supported configuration/testing/training, drafted workflows/SOPs, and reduced processing time by 45.5%.
- Delivered concise weekly analyses and executive updates to CEO and Hospital Director, identifying performance drivers, data issues, and opportunities that supported 216% yearly referral revenue growth in 2024.
- Managed 200+ provider/vendor partners, coordinating issue resolution, stakeholder communication, documentation, and rollout follow-up.

School of Life Sciences & Technology ITB

Bioinformatics Research Analyst

2020 – 2023

Bandung, Indonesia

- Conducted metagenomics and transcriptomics analyses using Mothur, TopHat, Cufflinks, and RStudio on large datasets.
- Trained researchers in NGS analysis methods and data visualization techniques.
- Co-authored a peer-reviewed publication in Agricultural Research on microbial community dynamics in banana ripening.

MRCCC Siloam Hospitals Semanggi

Biotechnology Analyst

2021 – 2022

Jakarta, Indonesia

- Managed COVID-19, HBV, and HCV testing lab operations, optimizing workflow efficiency.
- Implemented an automated nucleic acid extraction system, reducing sample analysis time by 70%.

CERTIFICATIONS

AI-Powered Data Science from Digital Skola | Credential ID: 001/BC/GRD/XXX37/VIII/2024

2024

Biomedical Research from CITI Program | Credential ID: 61405888

2024

LEADERSHIP & COMMUNITY INVOLVEMENT

American Medical Informatics Association, Student Member

2025 – 2026

Penn Graduate Consulting Club, Active Member

2025 – 2026