

Tomasz Mikołajczyk

RWE Statistical Programmer

Location: Warsaw, Poland

Professional Summary:

MPharm and Statistical Programmer with 7+ years of experience in SAS, SQL, R, and Python, specializing in Real-World Data (EHRs, claims, survey databases) and observational research. Passionate about programming and data science, with a strong interest in AI/ML applications in healthcare, building automation applications with R Shiny to streamline analytical workflows and expanding expertise in PK/PD and PBPK modeling. Motivated to take on leadership roles, including mentoring and leading programming teams.

Skills:

SAS, SQL, R, Python, Spark, Git, Statistical Analysis, Biostatistics, Epidemiology, ICH-GCP, RWD Medical Databases (Premier, MarketScan, Kantar NHWS, Optum, Truveta, TriNetX, CPRD, IMRD, Pharmetrix, MDV, JMDC, HealthVerity, and Flatiron) Data Analysis, Cloud-based data platforms (Redshift, Snowflake, Databricks), Machine Learning, NLP

Professional Experience:

Stryker – RWE Statistical Programmer (Contractor), Warsaw, Poland (Remote)

February 2024 – December 2025

- Providing programming and data analysis expertise using SAS, R, Python, SQL, and Spark to support the Trauma and Extremities Clinical Data Science team in studies leveraging Premier and Truveta datasets
- Collaborating with epidemiologists/project managers, biostatisticians and other medical experts on diverse objectives - from Post-Marketing Clinical Follow-Up (PMCF) studies that ensure ongoing safety and compliance with regulatory requirements, to research underpinning marketing claims, label expansions, scientific publications, and other regulatory submissions
- Building and maintaining reproducible programs, macros, functions, R-shiny apps to streamline analytic workflows
- Developing a scalable NLP algorithm to detect and map specific medical devices from an abbreviated, noisy descriptive free-text fields in Premier dataset

Quantitate – Senior Programmer II (started from Programmer I), Warsaw, Poland

January 2018 – January 2024

- Creating tables, listings, figures and data extracts using SAS and SQL programming with medical real-world data (e.g. Optum Claims/EHR, MarketScan, Kantar NHWS, Premier, IMRD, CPRD and more) as per client request (Pfizer)
- Executing observational retrospective cohort studies, dealing with various data computations including: case-control matching (PS-matching, random matching, inverse probability treatment weighting), medicationadherence measures (PDC, MPR, time to discontinuation), clinical characteristics (Charlson Comorbidity Index, Elixhauser Score, NCI CCI), healthcare cost and resource utilization, time to event analysis (Kaplan-Maier survival analysis, Cox regression), disease incidence and prevalence measures, hypothesis testing, normality checks, logistic regression, creating figures (Sankey plot, Swimmers plot, Kaplan-Maier plot, forest plot and other typical plots)
- Taking part in many observational studies in various therapeutic areas – Vaccines, Oncology, COVID, I&I, Rare Diseases
- Conducting quality checks for inconsistencies in other programmer's outputs
- Taking part in client meetings explaining database possibilities, limitations, and consulting project specification to suit project purpose and fit data availability.
- Designing, programming and verification of macros supposed to standardize and speed-up team work on repetitive tasks.
- Reviewing study manuscripts for data consistency before publishing and co-authoring publications
- Negotiating project timelines
- Preparation of training materials, mentoring and line management of junior programmers
- Managing team workload
- Collaboration as part of a global team

SUPER-PHARM - Pharmacist, Warsaw, Poland**September 2016 - December 2019**

- Patient service, ordering and entering goods in stock, prescription re-assessment, preparation of compounded medications, team management on current shift.

Private Pharmacies - Pharmacist, Lublin, Poland**June 2014 - June 2016**

- Patient service, ordering and entering goods in stock, prescription re-assessment, preparation of compounded medications, team management on current shift

Education:**Medical University of Lublin, Masters of Science in Pharmacy – June 2014****Catholic University of Lublin, Certificate in Management of Clinical Studies – June 2016****Jagiellonian University, Certificate in Quantitative Biopharmacy – June 2025**

- Application of AI/ML using R and Python in drug development, PK/PD, PBPK modeling

Profiles and publications:

- LinkedIn: [Tomasz Mikołajczyk | LinkedIn](#)
- Portfolio: [rwe-programmer.com](#)
- Co-authored publications: [Substantial health and economic burden of COVID-19 during the year after acute illness among US adults not at high risk of severe COVID-19 | BMC Medicine | Full Text](#)

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