Max Smith

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LinkedIn: https://www.linkedin.com/in/max-smith-605352243/

GitHub: https://github.com/mxsmi

Professional Summary

Clinical research data professional with 3+ years of experience managing complex datasets for hematology and transplant studies. Expertise in data pipeline development, data analysis, and regulatory compliance. Proficient in Python, R, SQL, and clinical database systems (EPIC, REDCap). Proven track record of improving data quality, automating workflows, and collaborating with multidisciplinary research teams.

Technical skills

- **Programming & Analysis:** Python, R, Git, SQL
- **Data Tools:** REDCap, EPIC, R Shiny Apps, Excel
- **Data Analysis:** Clinical database analysis for QC, summary statistics, data visualization
- **Databases:** Relational databases, SQL queries, data warehousing
- **Domain Knowledge:** Clinical research protocols, GCP/HIPAA compliance, medical coding and terminology

Professional Experience

Data Coordinator 2 | Fred Hutchinson Cancer Center | Seattle, WA

October 2023 – Present

- Manage comprehensive data operations for 7+ clinical research studies in myeloid disorders and bone marrow transplant, ensuring regulatory compliance and data integrity across 500+ patient records
- Develop automated data pipelines using Python and SQL to extract, transform, and report on clinical data from databases, reducing manual processing time
- Perform data analyses using R and Python to generate study metrics, enrollment reports, and efficacy endpoints for principal investigators and sponsors
- Design and maintain database systems using REDcap for efficient data retrieval, query resolution, and quality control audits
- Conduct data cleaning, validation, and outlier detection using R, identifying and resolving all data discrepancies before database lock
- Serve as primary liaison between clinical teams, investigators, and data management staff, facilitating protocol compliance and timely data delivery
- Create automated reporting workflows that generate monthly enrollment metrics and QC reports, improving efficient and high quality data collection.
- Train and mentor new coordinators on study procedures, database systems (REDCap, EPIC), and technical tools (R, Python, SQL)

Practice Support Assistant | Davis Wright Tremaine LLP | Seattle, WA
August 2021 – July 2022

- Managed FTP systems and secure file transfer protocols for confidential client data transmission, ensuring data security and chain of custody compliance
- Streamlined data processing workflows for litigation support, reducing case preparation time
- Developed process documentation and assisted with monthly billing report generation for legal teams

Educator | Art of Problem Solving | Remote
June 2019 – May 2022

- Advanced through multiple instructional roles (Grader → Releaser → Helper → Assistant) based on performance and accuracy
- Conducted quality assurance reviews of educational content, ensuring consistency and accuracy across teaching team
- Provided real-time tutoring support during live online classes, supporting student engagement and problem-solving skills

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Projects

TCRconvertR / TCRconvert
GitHub links:

TCRconvertR: https://github.com/seshadrilab/tcrconvertr

TCRconvert: https://github.com/seshadrilab/tcrconvert

- Open source contributor to CRAN R package (TCRconvertR) and Python Module (TCRconvert). These libraries convert V, D, J, and/or C gene names between the 10X Genomics, Adaptive Biotechnologies, and IMGT nomenclatures. IMGT is the AIRR Community–recommended standard. TCRconvert supports alpha-beta and gamma-delta T cell receptors (TCRs) for human, mouse, and rhesus macaque. TCRconvert can be used as a Python library or on the command line.

See my GitHub account for a full list of my projects

Publications

1) **The MEASURE Genome Atlas: Acute Myeloid Leukemia at diagnosis and complete remission (2026)**

Kai Yu, Laura Dillon, Jesse Tettero, Gege Gui, Rasha Al-Ali, Michael Grunwald, Elizabeth Krakow, Elizabeth Griffiths, Alexandra Gomez-Arteaga, Rahul Vedula, Melhem Solh, Amandeep Salhotra, Nelli Bejanyan, Lori Muffly, Antonio Jimenez-Jimenez, Michael Drazer, Yi-Bin Chen, Aaron Logan, Reena Jayani-Kosarzycki, Sophia Balderman, James Blachly, Brian Shaffer, Marc Schwartz, Cecilia Yeung, Farah Sahoo, **Max Smith***, Lawrence Druhan, Vanessa Kennedy, Melissa Tjota, Sandeep Gurbuxani, Dylan Barfield, Jim Guo, James Han, Jason Hu, Heejon Jo, Videya Kudlingar, Wilfred Li, Yutong Qiu, Pratheesh Sathyan, Sean Truong, Severine Catreux, Sam Ng, Khai Luong, Yunjiao Zhu, Reem Bahr, Jamie Diemer, Jianqun Kou, Stephanie Bo-Subait, Jackie Bjerke, Steven Devine, Bergetta Dietel, Christina Ferrone, Gabrielle Giammarino, Emily Heying, Emily Kolb, Danielle O'Donnell Vitali, Wael Saber, Stephen Spellman, Brenna Tesch, Jenny Vogel, Stephanie Waldvogel, Syreeta Weatherspoon, Jeffery Auletta, Christopher Hourigan*

2) **CPX-351 vs. CLAG-M for AML/High-Grade Myeloid Neoplasm (2026)**

Anna B. Halpern, Megan Othus, Mary-Elizabeth M. Percival, Christina Ghiuzeli, Jacob S Appelbaum, Paul C. Hendrie, Ryan D. Cassaday, **Max Smith**, *Katherine Russel, Bart L. Scott, Jason P. Cooper, Josh R. Veatch, Sioban B. Keel, Vivian G. Oehler, Johnnie J. Orozco, Erik L. Kimble, Raya Mawad, and Roland B. Walter.*

Education

Bachelor of Science in Mathematics | University of Washington

Jan 2017 - June 2019

Certifications

15+ Certifications in Data Science with Python, R, and SQL from Johns Hopkins University, Michigan University, and IBM. See my LinkedIn profile for a full list.