



# Ian Hamriding



Data Visualization & Data Science

## Contact info

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## My profile

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Expert data visualization / data science professional with more than 15 years' experience in the Clinical Trials environment. A committed, motivated, self-starter with a keen interest in programming languages, analytics, data visualization and the emergent machine learning and predictive analytics space. Strong technical skills in a variety of languages and BI tools, as well as good business knowledge and managerial experience.



## Professional experience

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### Application Development Group Lead, Clinical Analytics

*Novartis AG, Basel, Switzerland / October 2017 - Present*

- Managing a multi-national team of data scientists and programmers, to develop and maintain a broad portfolio of dashboards and analytics services to support the clinical drug development process across functions such as data management, statistical programming, medical writing, trial monitoring, regulatory and QA.
- Provision of metrics, KPIs, adhoc analyses, benchmarking data and vendor surveys using a wide range of BI tools
- Excellent hands-on experience with Spotfire, QlikSense and extensions (eg. Qlik Branch).
- Good knowledge of Python (inc. Matplotlib, Pandas, NumPy), Plotly-Dash, SAS, VBA.
- Some understanding of other data viz technologies eg. D3 and derivatives, Seaborn, Bokeh, web mashups
- Setup a data science sub-group to provide predictive analytics and machine learning capability to the business (NLP/Sentiment Analysis, Decision Tree, Random Forest, Neural Networks, Deep Learning etc.). Conducted a number of successful ML projects eg. CRF volume predictions, FDA-inspection risk score analysis.
- Central role in the ideation and technical implementation of resource forecasting solution for business functions in global drug development. Development and validation of resourcing algorithms programmed in Python.
- Built resource management dashboard using QlikSense to display business insights related to resource forecast, available bench and allocation, gap analysis etc.
- Sound database skills (Oracle, MS Access). Development of Oracle views, DB links, etc.
- Management activities – group meetings, 1x1s, personal development process, coaching and mentoring, training, interviewing and onboarding, contract negotiation, working with vendors, work scheduling, strategic planning.



## Professional experience cont.

### Business Innovation Specialist , Technology Innovations

*Novartis AG, Basel, Switzerland / May 2009 - October 2017*

- Managed a small team of programmers to maintain existing in-production applications and develop new applications to support functions associated with the clinical trial process (statistical reporting, data management, medical writing, etc.).
- Weekly workload review meetings with team. Training and onboarding. Personal development. Issue resolution. Work prioritization.
- Development and maintenance of MS Access-based resource management application and associated SQL-based reports for the Medical Writing group.
- Development of charts and graphical display capabilities for user and management review.
- Creation of Excel-based VBA tool to automate the build of the Clinical Study Report for the Regulatory and Medical Writing group. Complex use of treeview objects and events, development of procedures and MS Word automation through Excel.
- Development and maintenance of multi-page, interactive Spotfire dashboards for resource and portfolio management purposes using Iron Python and some Javascript components, populated by data from Oracle tables and views also built by our team.
- Maintenance and monitoring of data extract process, data cleaning, QC reports.
- SAS-based reports for various uses eg. SAE reconciliation, Study Governance.
- Development of Oracle tables, views and stored procedures to store and transform business-critical data.

### Expert Clinical Database Programmer

*Novartis AG, Basel, Switzerland / June 2004 - September 2008*

- Design electronic database applications for Electronic Data Capture at investigational sites.
- Program validation checks to ensure high quality and integrity of the clinical data.
- Prepare specifications for the transfer of the data from the EDC system into the central database.
- Contribute to the development of global and TA specific standards.
- Develop a complementary clinical database structure within a central data repository (CT4).
- Develop monitoring reports with SAS, SQL and associated tools.
- Develop SAS reports to identify protocol violations.
- Develop and maintain programs and applications (mostly MS Access / Excel VBA) to assist departmental objectives.

## Skills At a Glance



QlikSense



Spotfire



Python



Data Science



Databases



SAS



## Languages



**English**

*Native*

**German**

*B1*

**French**

*Basic*



## Education

**MSc (Hons) Computer Science**

*University of Hertfordshire, UK / 1999 -2004*

**BSc (Hons) Psychology &  
Philosophy**

*University of Bolton, UK / 1993 -1996*