Randall M Kramer

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Professional Experience

Northern California Power Agency, Roseville, California
Energy Resource Analyst II, Risk Management   2021-Present

Support the Agency's energy risk evaluations; analysis of member's electricity and gas portfolios exposures to market price volatilities. Responsible for planning and coordinating the Agency's insurance programs for property, auto, workers' compensations and other policies as required to support the Agency or its members.

- Monitor trading activities and ensure compliance with Risk Management policies. Identify and report non-compliance and recommend solutions to prevent further non-compliance. Provide statistical analysis evaluating financial impact and risk exposures of new transactions and hedging strategies.
- Ensure appropriate data management, validation and testing within energy risk management system. Assimilate complex data into easy to read and understand reports or presentations.
- Assist in the procurement of the Agency's property, casualty, workers' compensation and other related insurance programs. File new and renewal applications for insurance.
- Facilitate premium and exposure audits, settle disputes and assist in the management and settlement of claims.

Novozymes, Davis, California
Associate Scientist
Data Science and Bioinformatics   2014-2021

Provide research support to principal investigator on several research projects. Design, implement, and support systems for the visualization, aggregation, and analysis of complex data sets from data repositories, analysis tools, APIs, and data exchange between systems using standard data structures like JSON. Installation and maintenance of Linux servers, including the setup and testing of data analysis tools and pipelines. Collaborate with colleagues in other departments and sites across the globe. Write and present experimental results through reports and presentations.

- Design, develop and support scalable data acquisition and analysis pipelines using Python, SQL, and Jupyter notebooks. Leveraged data assets in the company's DataLake to provide access to data via SQL views, APIs using cURL, data-driven dashboards using Plotly Dash, larger applications using Django, JMP, and Tableau.
- Implemented data security measures for highly confidential information assets identified by management. Defined security groups to control access to these assets. Restructured system update procedures to ensure data systems are up-to-date with the latest security patches.
- Collaborated with stakeholders on projects anchored locally as well as projects that spanned groups across the global organization. Served as the local expert for data acquisition from disparate databases, file shares, providing a means to aggregate and

analyze these data sets. Defined data capture standards by developing project-specific data plans aligning with the project's goals and the organization's path towards digitalization.

- Led an introductory course in Python Programming for local scientific staff. This initiative supported the organizational goal of increasing scientists' computational competencies, ensuring researchers are well prepared for increased data generation through automation and digitalization. More than seventy-five percent of the scientific staff participated.

- Provided training through cooperative mentorship of both senior and junior staff members. Unlocked non-technical staff by providing easy-to-use data aggregation and analysis tools, leading to increased availability of actionable datasets. Led project meetings and directed staff on specific project tasks.

Research Associate II   2007-2014

Protein Chemistry

Experimental design and analysis supporting several different projects and departments with an emphasis on biochemical assays. Develop novel assays for products and activities of interest. Purified proteins and characterized using assays and mass spec analysis. Documented experimental design and research in an ELN. Served as the local HPLC expert for the Davis site.

- Developed a miniaturized screening assay utilizing fluorescence decay that could be run on a high throughput robotics system. All aspects of the assay were completely automated, which increased daily screening throughput 10-fold.
- Implemented new procedures for submitting, analyzing, and processing HPLC samples resulting in a thirty percent gain in sample throughput. These procedures decreased wait times and increased data availability while maintaining quality standards.
- Developed custom excel macros to import data from external sources and automated data processing and reporting functions.

Education

Master of Science in Information Systems, 2011
Emphasis: Database Design and Management
Drexel University, Philadelphia, Pennsylvania
Bachelor of Science in Biochemistry and Molecular Biology, 2007
University of California, Davis, Davis, California

Honors and Awards

Above and Beyond—Best Team player, Novozymes   2019
- Voted best team player by colleagues in Davis

Technology Development of the Year, Novozymes   2019
- Amplicon library preparation using an acoustic liquid handler