

Patrick Larkin

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Portfolio site: <https://github.com/plarkin13>

I'm a driven culture captain: a teamwork oriented leader who strives to improve everything he can. I'm well equipped to overcome obstacles with my background in data science and my 5 years experience in research management consulting. I focus on leading teams to overcome problems in my passion areas: biotech, scientific research, and finance.

SKILLS

Analysis Tools: Numpy, Pandas, Matplotlib, Seaborn, SQL, AWS, web scraping, git, Scikit-learn, Tensorflow, and Spark.

Microsoft Office products (Advanced): Excel, PowerPoint, Word, SharePoint, Access, Visio.

Other: Project Management Certification, Final Cut Pro, Spanish, and programming (Java, Javascript, Python).

PROJECTS- DATA SCIENCE

- **Are You Prone To A Stroke?** *Classification, OverSampling, UnderSampling, SMOTE, RandomizedSearchCV*
 - *Top Models: Decision Tree, Support Vector Machine, ExtraTrees*
- **Predicting the S&P 500 from News' Sentiment** *Classification, NLP, Sentiment Analysis, CountVectorizer*
 - *Top Models: TFIDF with Multinomial Bayes, Long Short Term Memory (LSTM) neural network*

EXPERIENCE

Huron Consulting Group

Higher Education and Research Consultant

Jan 2019 – Jun 2021

- Led year-long workstreams to optimize research systems at 2+ higher-education institutions.
- Managed team on a project workstream for an Ivy League University to reconcile financial accounts of 3000+ grants containing total expenditures of >\$750M.
- Created an automated quality assurance system to ensure deliverables met clients' exact expectations.
- Reconciled a university's general ledger, created standardized policies and procedures, and implemented an improved collections strategy.

Analyst

May 2016 – Dec 2018

- Interviewed 20+ client-site personnel and assessed their on-site organizational structure. Then provided the executive leadership with 10-15 actionable recommendations and a roadmap to implement the improvements.
- Performed a due-diligence audit for 100+ clinical trials as a regulatory expert for the acquisition of private clinical research sites.
- Eliminated >\$2M dollar internal holds on clinical trial bills through a reassessment and prioritization of a research center's financial processes and prioritization structure.

University of Chicago

Clinical Research Associate (CRA)

Sep 2014 – Apr 2016

- Managed patients and data for 30+ clinical trials in compliance of IRB, FDA, GCP/ICH requirements.
- Conducted PSIVs, SIVs, monitoring visits, and patient visits according to each protocol.

Ventana Medical Systems (Roche)

Research Associate I

Aug 2013 – Aug 2014

- Completed 100's of guard band studies in a lab to develop scalable staining formulations by testing variables (e.g. mixing speed, time, concentration) to ensure a quality product for mass manufacturing.
- Identified 25% cost reduction for production by removing inefficient steps via a post-product analysis.
- Authored Poster: *Managing Quality through Test Method Capability & Analysis for ATLAS Nuclear Stain.*

EDUCATION

General Assembly, Data Science Immersive, September 2021

University of Arizona: Environmental Science Major B.S. (Biology focus)