

PATRICK WALES-DINAN

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I am a data scientist with a background in education and competitive sports who is excited to challenge the status quo with analytically driven ideas. I thrive in fast-paced environments where people work collaboratively to inspire the best work from each other. As a data scientist, teacher, and coach, my goal is to provide meaningful insights backed by data to those who strive for excellence in any pursuit, whether in developing technology products, explaining statistics, or leading teams of driven people.

SKILLS, TOOLS & LANGUAGES:

Python • SQL • Postgres • Scala • Spark • Pandas • Flask • AWS • Regression & Classification modeling: Random Forests, Logistic Regression, Decision Trees, SVM's, Gradient Decent • Clustering: PCA, DBSCAN, Kmeans • API integration • NLP • Pipelines • Time Series Analysis: ARIMA, SARIMAX • Naïve Bayesian Inference & Regression: MCMC • Neural Networks • Deep Learning • Scikit-Learn • PyMC3 • Keras • StatsModels • Seaborn • Matplotlib • Tableau • BeautifulSoup

DATA SCIENCE & STATISTICAL EXPERIENCE:

Data Science Immersive Instructor, General Assembly, San Francisco, CA, May 2019 – Present

Completed a full-time Data Science Immersive focused on real-world applications of data science principles and best practices with Python, SQL, and Scala. Experience included data acquisition and cleaning, predictive modeling, and visualization techniques. Extensively used Scikit-Learn, Keras and Spark to implement machine learning techniques to model complex datasets. Used Matplotlib and Seaborn to generate visualizations of findings to present as deliverables. Developed a portfolio of individually and collaboratively focused projects and findings. Was hired following the course to teach future cohorts. Publications via: [Towards Data Science](#)

Statistics & Calculus Teacher, Noble High School, North Berwick, ME, April 2006 – June 2009

Taught AP Statistics and Calculus to high school students. Developed and implemented curriculum that went into depth of regression and classification analysis, hypothesis testing, confidence intervals, central limit theorem, linearity, probability, biased sampling statistical error, Chi-Squared Testing for Homogeneity, vector calculus, eigenvalues and eigenvectors, linear transformations and irrational numbers.

Insurance Underwriter, Unum Corp, Portland, ME July 2005 – April 2006

Analyzed census data from individual companies to model price outcomes for long term disability, short term disability and life insurance plans. Partnered with sales staff to create proposals to leverage new business. Used actuarial tables to create recommendations for future prices models.

LEADERSHIP & MANAGEMENT EXPERIENCE:

Collegiate Track & Field / Cross Country Coach: Duke University, Harvard University, Williams College, Long Beach State University, July 2009 – September 2017

Coached over 15 NCAA All-Americans and 10 Olympic Trials & US Track and Field Championships Qualifiers. 2016 Ivy League Cross Country Coach of the Year. Responsible for managing teams and programs of 30-60 athletes. Part of giving campaign which raised \$200,000 for the program.

High School Track & Field / Cross Country Coach: Monte Vista High School, November 2018 – Present

Manage a staff of 6 coaches and a budget of \$50,000 annually to direct a team of 130+ athletes. Work with administrative staff and parents to build a positive environment to allow young people to thrive and reach their goals.

EDUCATION:

Bates College, Lewiston, ME | Bachelor of Arts, May 2005 Major: Economics

Coursework: Statistics, Econometrics, Multivariable Calc, Linear Algebra, Differential Equations