Adam J. Trexler, PhD

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Skills

- **Programming languages**: Python, R, MATLAB
- **Analytics**: Supervised (support vector machines, naïve Bayesian, trees, ensemble methods) and unsupervised (NMF, PCA, clustering) machine learning methods, image processing, natural language processing (NLTK), statistics, correlation methods, data visualization, SQL, MongoDB.
- **Communication**: Experience briefing senior leadership and large audiences, with five presentations (100+ attendees) at large international scientific conferences and numerous presentations at smaller (<50 attendees) events.
- **Leadership**: Co-mentored three junior scientists for one-to-two year research projects. Working group lead on data science and modeling.

Experience

Data Scientist, *2018-*
Elder Research, Arlington, VA.

- Supporting the Data Science team at the Office of People Analytics: performing exploratory data analysis, building R package for fuzzy text and unit code matching, and building model components for the force resilience project efforts.

Data Scientist, *2017-2018*.
Research Facilitation Laboratory, Northrop Grumman Corporation.

- Built predictive models using a variety of machine learning methods for clearance adjudication support in US Army population. Core contributor to software development of data science pipeline tools. Lead author for two year-end technical report deliverables.

Postdoctoral Researcher, *2013-2017*.
National Institutes of Health, Bethesda, MD. Advisor: Dr. Justin Taraska.

- Investigated the molecular details of insulin release and diabetes using fluorescence microscopy and large-scale image processing and quantitative analysis.
- Wrote two first-author publications; three total publications in peer-reviewed journals.

Education

Yale University, PhD, Molecular Biophysics and Biochemistry**, *2013***.

- Received the Mary Ellen Jones Dissertation Award for top departmental dissertation in 2013.

McDaniel College, BA, Biology and Biochemistry, ***2007***.

- GPA 4.06/4.30**,** GRE: 640V, 690Q, 5.5W
- Summa Cum Laude, Phi Beta Kappa.