


# RYAN S. LAIRD

## PROFESSIONAL EXPERIENCE


current  
|  
2018

- **Post-Bachelor Fellow**  
National Human Genome Research Institute  Bethesda, MD
  - Designed REDCap database to document clinical history of patients with VEXAS, a novel autoinflammatory syndrome.
  - Defined requirements for study management database with stakeholder input. Planned for downstream queries, reporting, legacy data import, and team workflows.
  - Analyzed EHR data including: clinical labs, HPO terms, and COVID-19 incidence for an autoinflammatory cohort of 2,000 patients.
  - Managed intake and processing of adult referrals to a natural history study<sup>1</sup>.

2018  
|  
2017


- **Fuel Your Future Associate, AmeriCorps**  
United Way of King County  Seattle, WA
  - Piloted 'Breakfast After the Bell' program following No Kid Hungry guidelines, which resulted in new state legislature affecting over 400 schools in Washington by 2020
  - Distributed free meals to anyone under 18 through the Child and Adult Care Food Program with a 25% increase of meals served.

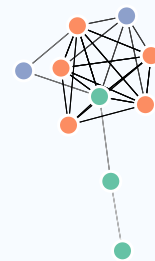
2017  
|  
2017

- **Emergency Medical Technician**  
Olympic Ambulance; American Medical Response  King County, WA
  - Provided medical care and comfort to patients in a fast-paced environment.
  - Developed professional communication and rapport with patients, fire departments, law enforcement, and hospital staff.
  - Maintained HIPAA compliance and documented patient consent for treatment/transport.

## EDUCATION

2020  
|  
2020

- **Data Science CoLab**  
Department of Health and Human Services  Washington D.C.
  - Highly competitive 8-week series on data analysis, natural language processing, and machine learning.
  - Capstone Project: Utilized NLP tools to extract clinical data from EHRs, in order to cluster undifferentiated patients by phenotypic similarity.



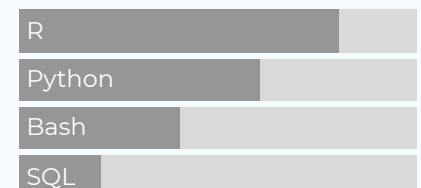
Above network graph shows connections between experiences.

View this CV online with links at [nickstrayer.me/datadrivencv/](https://nickstrayer.me/datadrivencv/)

## CONTACT

✉ [Ryan.Laird@outlook.com](mailto:Ryan.Laird@outlook.com)  
📞 (717)-330-4658  
🌐 [GitHub](#)  
[ORCID](#)

## LANGUAGE SKILLS



Made with R packages [pagedown](#) and [datadrivencv](#).

The source code is available on [GitHub](#).

Last updated on 2021-03-15.

- 2019  
|  
2019

●

**Foundation for Advanced Education in the Sciences**  
 Select Graduate Courses

Bethesda, MD

- Experimental Statistics with R
  - Introduction to Python for Bioinformatics
- 2016  
|  
2016

●

**EMT-Basic Certification**  
 Tacoma Community College

Tacoma, WA

- Met training requirements for Emergency Medical Technician employment in Washington State.
- 2016  
|  
2012

●

**B.S. Molecular Biology**  
 Messiah University

Mechanicsburg, PA

- Graduated *cum laude*



## PUBLICATIONS, TALKS, AND POSTERS

- 2021

●

**Somatic Mutations in UBA1 Define a Distinct Subset of Patients with Relapsing Polychondritis**  
 Under-Review

- Authored with Marcela A. Ferrada, M.D., Keith A. Sikora, M.D., Yiming Luo, M.D., Kristina V. Wells, B.Sc., Bhavisha Patel, M.D.
- 2020

●

**Somatic Mutations in UBA1 and Severe Adult-Onset Autoinflammatory Disease<sup>2</sup>**  
 New England Journal of Medicine

- Authored with David B. Beck, M.D., Ph.D., Marcela A. Ferrada, M.D., Keith A. Sikora, M.D., Amanda K. Ombrello, M.D., Jason C. Collins, Ph.D, et al.
- 2020

●

**Using Unsupervised Machine Learning to Find Clinical Patterns of Autoinflammatory Disease**  
 Invited speaker, HHS Data Science CoLab Symposium
- 2020

●

**Discovering Novel Patterns of Autoinflammation via Phenotype-First Unsupervised Machine Learning**  
 NIH Post-bac Poster Day
- 2019

●

**TNF Inhibitor Treatment and Dramatic Stroke Risk Reduction in Patients with Deficiency of Adenosine Deaminase 2<sup>3</sup>**  
 Oral Presentation, American College of Rheumatology Conference



## LINKS

- 1: <https://clinicaltrials.gov/ct2/show/NCT00001373>
- 2: <https://www.nejm.org/doi/full/10.1056/NEJMoa2026834>
- 3: <https://acrabstracts.org/abstract/tnf-inhibitor-treatment-and-dramatic-stroke-risk-reduction-in-patients-with-deficiency-of-adenosine-deaminase-2/>