

PATRICK DUFFY

I have worked in R and SQL extensively to design analytical tooling, create and maintain ETL pipelines, develop insightful models, analyze product data, and create lightweight web applications for a variety of purposes.

Currently searching for a position that allows me to use these skills and continue providing value to analytics and business teams.



EDUCATION

2015
|
2013



M.S. Chemistry

University of North Carolina Wilmington

📍 Wilmington, NC

- Thesis work on understanding how undergraduates worked with chemical representations.

2013
|
2010



B.S. Chemistry

University of North Carolina Wilmington

📍 Wilmington, NC



INDUSTRY EXPERIENCE

current
|
2018



Data Associate

Allovue

📍 Baltimore, MD

- Maintaining and writing ETL processes in R and SQL for new and existing customers
- Contributed to multiple production, client-facing shiny apps
- Performed ad hoc analyses for internal and external stakeholders
- Used product event data to inform design decisions and identify user patterns and use cases
- Contributed to internal package development and maintenance

2018
|
2016



Development Editor

Soomo Learning

📍 Asheville, NC

- Led analysis for presentation to Southeastern Educational Data Symposium 2018
- Analyzed event data to understand user behavior and student outcomes
- Developed models to target student interventions
- Designed dashboards to aggregate and visualize student and instructor data
- Led development of an undergraduate natural sciences course for a public university with a large online presence



SELECTED PUBLICATIONS, POSTERS, AND TALKS

2019



Form versus Function: A Comparison of Lewis Structure Drawing Tools and the Extraneous Cognitive Load They Induce'

Journal of Chemical Education



View this CV online with links at
github.com/plduffy/resume/master/raw/pld_resume.html

CONTACT

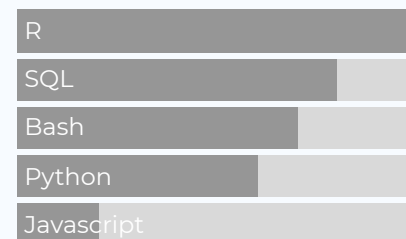
✉ plduffy@hey.com

🐙 github.com/plduffy

in

<https://www.linkedin.com/in/patrickduffy-471a86a8/>

LANGUAGE SKILLS



Made with the R package [page-down](#).

The source code is available on github.com/plduffy/resume.

Last updated on 2020-07-27.

2017

- **Unraveling the Complexities: An Investigation of the Factors That Induce Load in Chemistry Students Constructing Lewis Structures²**
Journal of Chemical Education



- 1: <https://pubs.acs.org/doi/10.1021/acs.jchemed.8b00574>
- 2: <https://pubs.acs.org/doi/abs/10.1021/acs.jchemed.6b00363>