

# 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.

View this CV online with links at [github.com/plduffy/resume/master/raw/pld\\_resume.html](https://github.com/plduffy/resume/master/raw/pld_resume.html)

## EDUCATION

- 2015  
|  
2013
- **M.S. Chemistry**  
University of North Carolina Wilmington 📍 Wilmington, NC
    - Thesis work on understanding how undergraduates worked with chemical representations.
  - **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
  - **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

## CONTACT

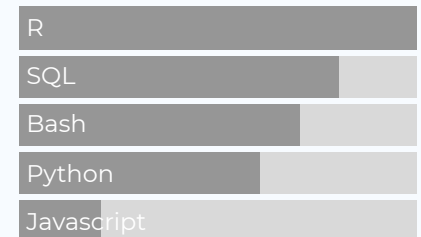
✉ [plduffy@hey.com](mailto:plduffy@hey.com)

🐙 [github.com/plduffy](https://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](https://github.com/plduffy/resume).

Last updated on 2020-07-27.

2018 ● **Course Design with Learning Analytics: A case-study in using data to identify problems and measure improvements.**  
Southeastern Educational Data Symposium  Atlanta, GA

2017 ● **Unraveling the Complexities: An Investigation of the Factors That Induce Load in Chemistry Students Constructing Lewis Structures<sup>2</sup>**  
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>