

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
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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
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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

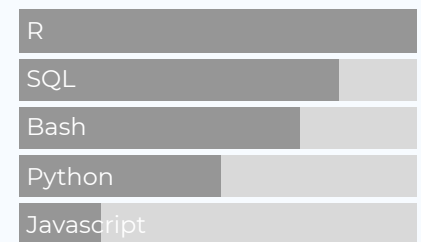
- 2019
- **Form versus Function: A Comparison of Lewis Structure Drawing Tools and the Extraneous Cognitive Load They Induce'**
Journal of Chemical Education

View this resume online with links at
[_https://github.com/plduffy/resume/blob/master/index.html](https://github.com/plduffy/resume/blob/master/index.html)

CONTACT

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in [linkedin.com/in/plduffy](https://www.linkedin.com/in/plduffy)

LANGUAGE SKILLS



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

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

Last updated on 2020-08-04.

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 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>