

# Jasmine M. Dumas

Data Scientist • Machine Learning Engineer

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## Education

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### DePaul University

Graduate Certificate in Analytics

2015 - 2017

### University of Hartford

Bachelor of Science in Engineering in Biomedical Engineering

2008 - 2012

## Experience

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### Simple Finance

Data Scientist 2

Oct. 2016 - Present

- Lead Data Scientist for the Onboarding product team: responsible for technical mentorship, data product strategy, external data integration with APIs, experimentation and analyzing product feature launches
- Developed an early detection machine learning model to monitor spikes in ACH returns leading to data-informed decisions for mitigating fraud loss
- Developed internal data science tools for power analysis and data cleaning

### The Hartford Financial Services

Associate Data Scientist

Apr. 2016 - Oct. 2016

Data Science Internship

Nov. 2015 - Mar. 2016

- Developed machine learning models for auto insurance that improved loss ratio estimates, drove strategic pricing changes and provided insights on competitive position
- Enhancing the team's data science architecture by developing an internal R package, writing technical documentation and tutorials

### University of Connecticut Institute for Systems Genomics

Bioinformatics Internship

Sep. 2015 - Jan. 2016

- Computational and command line programming to develop a gene database for the annotation of the Douglas-fir & walnut genome

### Google Summer of Code

Student Developer

May 2015 - Aug. 2015

- Developed a web application with r-shiny to automate differential expression and survival analysis of micro-array gene expression datasets from the NIH Gene Expression Omnibus

## Open Source R Software

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### Packages:

- **gramr**: Perform grammar checks in RMarkdown documents
- **ttbbeer**: Data package of beer statistics from U.S. Department of the Treasury (TTB)
- **shinyLP**: Bootstrap components to make landing home pages for shiny web apps
- **shinyGEO**: Shiny app for gene expression analysis, developed during Google Summer of Code 2015 program

### Featured Projects:

- [Deep Learning Image Classification App with Keras and r-shiny](#)
- [Web scraping tutorial of craft brewery ratings from Beer Advocate](#)

## Invited Talks

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- "R, What is it good for? Absolutely Everything" at R User Day at Data Day Texas 2018 in Austin, TX
- "Adventures in Crafting a Data Science Career" at the University of Rhode Island (URI) for the Coastal Institute and RhodyRStats Careers in R speaker series 2017
- "Extending Shiny by Enhancing User Experience with shinyLP" in Portland, OR for the R User Group, 2017
- "Open Government Data & Beer Analytics" at Open Data Science Conference 2017 in Boston, MA

## Research Publications

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- Stella Bollmann, Dianne Cook, **Jasmine Dumas**, John Fox, Julie Josse, Oliver Keyes, Carolin Strobl, Heather Turner and Rudolf Debelak. '[Forwards Column](#)'. The R Journal, Volume 9/2, December 2017.
- **Dumas J**, Gargano MA, Dancik GM. '[shinyGEO: a web-based application for analyzing Gene Expression Omnibus datasets](#)'. Bioinformatics. 2016 Aug 8.
- **Dumas J**, et.al., '[Feasibility of an electronic stethoscope system for monitoring neonatal bowel sounds](#)'. Connecticut Medicine, Volume 77, Number 8, pp. 467-471, September 2013.