Jasmine Dumas

Data Scientist

jasmine.dumas@gmail.com | http://jasdumas.github.io/ | Connecticut, USA

About

I'm a Data Scientist with a background in Financial Technology, Insurance, Medical Devices, R&D, and Aerospace manufacturing. I value hard work, creativity and openness. I'm an active member of the R Programming community and have contributed as a: podcast co-host of RTalk, contributor to RWeekly, and co-organizer of R-Ladies CT.

Featured Projects

- Exploring **NASA**'s open data as a Datanauts Volunteer
- Tutorial on Web scraping craft brewery ratings from Beer Advocate with R and import.io
- Shiny app for gene expression analysis for bioinformaticians
- Dashboard app of Reported Crimes in Hartford Connecticut

Education

- **MS candidate** in Predictive Analytics at DePaul University, (2015 - on-leave until Fall 2017)

- **BSE** in Biomedical Engineering at University of Hartford, (2008 - 2012)

Data Science Experience

- **Data Scientist 2 at Simple Finance**, (October 2016 - Present)
  - Changing how people think about their finances with data science
- **Associate Data Scientist at The Hartford Financial Services**, (April 2016 - Oct. 2016)
- **Data Science Intern at The Hartford Financial Services**, (Nov. 2015 - March 2016)
  - Research & Implementation of **machine learning techniques** in **variable reduction and selection** to develop predictive models for auto insurance that improve loss ratio estimates, drive strategic pricing changes and insights on competitive position.
  - Enhancing the data science architecture by developing and maintaining an internal **R** package, writing technical documentation and tutorials.
- **Bioinformatics Intern at the University of Connecticut Institute for Systems Genomics (UCONN)**, (Sept. 2015 - January 2016)
  - Computational and command line programming to develop a gene database towards the annotation of the douglas-fir & walnut genome
- **Student Developer at Google Summer of Code**, (May 2015 - Aug. 2015)
  - Developed a web application with R & Shiny to automate differential expression and survival analysis of microarray gene expression datasets from the NIH Gene Expression Omnibus | github.com/jasdumas/shinyGEO

R Packages & Software

- `ttbbeer`: Data package of beer statistics from U.S. Department of the Treasury (TTB)
- `shinyLP`: Bootstrap Components to make landing home pages for Shiny
- `shinyGEO`: A Shiny app to analyze gene expression data

Peer-Reviewed Research Papers

- **Dumas J**, Gargano MA, Dancik GM. shinyGEO: a web-based application for analyzing Gene Expression Omnibus datasets. Bioinformatics. 2016 Aug 8. doi:10.1093/bioinformatics/btw519 | Paper link

- **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. | Paper link

Posters & Presentations

- IPA & data frames: Open Government Data and Beer Analytics | Presented Virtually to Cardiff, UK R User group, August 2016.
- useR! 2016 Conference International Annual Meeting (Stanford, CA): shinyGEO: An online tool for biomarker analysis in Gene Expression Omnibus (GEO) datasets
- American Association for Cancer Research Annual Meeting (New Orleans, LA) 2016: *An online tool for biomarker analysis in Gene Expression Omnibus (GEO) datasets*
- Northeast American Society of Engineering Education Conference (Lowell, MA) 2012: Dual Presenter - bit.ly/JMD-asee1, bit.ly/JMD-asee2
- Neonatal/Perinatal Research Symposium at Connecticut Children's Medical Center, (Hartford, CT) 2012