Stephanie Kobakian

A critical thinker and engaged collaborator delivering business insights. I am dedicated to solving problems, using data analysis and visualisation to develop and effectively communicate data driven solutions.

Technical Skills

- **Programming:** R, LaTex, SQL and python
- **Data science:** web scraping, data collection, analytics and visualisation
- **Software Development:** collaborative version control and continuous integration
- **Communication:** conference presentations, reports for commercial and non-profits

Education

2018 - 2020 **Master of Philosophy (Statistics)**
Queensland University of Technology, Brisbane, Australia
A New Algorithm For Effectively Visualising Australian Spatio-Temporal Disease Data.

2014 - 2017 **Bachelor of Commerce and Bachelor of Economics**
Monash University, Melbourne, Australia
Majors: Econometrics and Business Modelling.

Experience

Jan. 2019 - Present **Lead Data Scientist**, *WhyHive*, Remote.
- Use R to manage data, perform high quality data cleaning, conduct statistical analysis, modelling and generate data visualisations
- Create and present analytical findings in written and visual data driven research reports and presentations
- Perform program evaluation and use evidence to measure and report on outcomes

Jan. 2019 - Present **Editorial Assistant for the R Journal**, *R Consortium*.
- Proofread submissions for issue publication
- Plan projects and set milestones to ensure objectives are achieved
- Evaulate the shifting priorities of various stakeholders and adapt projects accordingly
- Liase with team memebers to plan and negotiate targets
- Write R functions to automate checks of submissions

Jan. 2016 - Present **Research assistant to Prof. Dianne Cook**, *Monash University*, Clayton.
- Create and effectively manage project priorities
- Manage hours and priorities to acheive project deadlines
- Develop an R package to create Shiny Applications that produce tidy data sets from image based surveys

Teaching associate, *Monash University*, Clayton, Australia.
- ETC1010: Introduction to data analysis, 2018 - 2020
- ETC5510: Introduction to data analysis, S1 2020
- ETC5513: Collaborative and reproducible practices, S1 2020
- ETC5512: Wild-caught data, S1 2020
- ETX2250: Data Visualisation and Analytics, Summer 2017

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Publication

1. Kobakian, S., Cook, D., & Roberts, J. (2020). Mapping cancer: The potential of cartograms and alternative map displays. *Annals of Cancer Epidemiology*, *4*(0). http://ace.amegroups.com/article/view/6040

Authored Software

2019 **sugarbag**: Author. Kobakian, Stephanie. 2018. sugarbag: Create Tessellated Hexagon Maps of Australia. Each polygon is represented by a hexagon tile, placed as close to it's original centroid as possible, with a focus on maintaining spatial relationship to a focal point.

2018 **taipan**: Author. Kobakian, Stephanie and O'Hara-Wild, Mitchell. 2017. taipan: Tool for Annotating Images in Preparation for Analysis. Generates shiny apps for annotating images, these annotations are typically used for training and evaluating machine learning models.

Presentations

2019 *An Australian alternative to choropleth maps; visualising geo-spatial disease data:* Alternative map displays for presenting spatial distributions in Australia. WOMBAT 2019.

2019 *An Australian alternative to choropleth maps; visualising geo-spatial disease data:* Alternative map displays for presenting spatial distributions in Australia. Masters symposium, Queensland University of Technology.

2019 *Maps, hexagons and life in Australia:* An algorithm to create tesselated hexagon tile maps for Australia. Young Statisticians Conference 2019.

2019 *Taipan: Woman Faces Machine:* Storing information from images. useR!2018.

2018 *Tidy data structures and image analysis:* A real example of tidy data creation, highlighting the differences between variables and observations. ETX2250 Data Visualisation and Analytics.

2017 *Sports Analytics:* Emotions in tennis. Wombat MeDaScIn.

Awards

2018 **Championship Team**, *UseR!2018 Datathon*, Atlas of Living Australia.

- A Shiny app to aid in the exploration of animals in Australia. Displaying sightings of bee species across Australia in a colourful and interactive application.

2016 **Championship Team**, *Analytics Competition*, SAP University Alliances.

- Created an infographic presenting the state of homelessness in Australia. Recommended solutions to address the drivers of homelessness for various age groups.

2016 **Scholarship Awardee and Internship**, *Monash Winter Research Program*, Dep. of Econometrics and Business Statistics.

- Worked under Dr Stephanie Kovalchik and Prof. Dianne Cook to begin a research project within the Game Insight Group to analyse the emotional experience of elite tennis players and develop statistics to incorporate in the television coverage of the Australian Open. Applying the facial recognition software, and performing statistical analyses to determine the performance accuracy.