Stephanie Kobakian

Technical Skills

- **Programming:** R, LaTex, SQL and python
- **Data science:** web scraping, data collection, analysis and visualisation
- **Statistics:** generalised linear regression and additive models
- **Software Development:** collaborative version control and continuous integration
- **Communication:** conference presentations, data driven 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.

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`

Work Experience

Jan. 2019 - Present **Editorial Assistant for the R Journal**, *R Consortium*.
- Proofread submissions for issue publication
- Write R functions to automate initial checks of submissions

Jan. 2016 - Present **Research assistant to Prof. Dianne Cook**, *Monash University*, Clayton, Australia.
- Develop the taipan R package to create Shiny Applications that produce tidy data sets from image based surveys

Jan. 2019 - Present **Data scientist**, *WhyHive*, Remote, Australia.
- Perform data cleaning and generate data visualisations for a variety of clients, including substantial spatio-temporal visualisations

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

0433 699 797 • *srkobakian* • *srkobakian*
srkobakian@outlook.com

Authored Software

2019 **sugarbag**: Author
Kobakian, Stephanie. 2018. sugarbag: Create Tessellated Hexagon Maps of Australia.
https://CRAN.R-project.org/package=sugarbag.

2018 **taipan**: Author
Kobakian, Stephanie and O'Hara-Wild, Mitchell. 2017. taipan: Tool for Annotating Images in Preparation for Analysis.
https://CRAN.R-project.org/package=taipan.

Presentations

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, 2019.

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, 2018.

Facial Recognition: Emotions in tennis. Tennis Australia, 2017.

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

Awards

2018 **Championship Team**, *UseR!2018 Datathon Competiton*, 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 Competiton*, 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.

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