Alexander Ryan – alexanderjamesryan@gmail.com

Dual citizenship Australia and Ireland

ALEXANDER RYAN

EXPERIENCE	
2017 - CURRENT	**Master of Statistics** – KU Leuven – (Leuven, Belgium) • Modelling Personality using the Big Five Factor Model • Logistic model of Kidney Transplant success rate • Measuring effectiveness of treatment for Epilepsy • Analysis of the Belgian Health Information Survey
2016 - 2017	**English Teacher** – Adomlingua Language School – (Paris, France) • Provided business English training for French professionals • Created business English language program designed for native French speakers • Consulted for a Management Consulting firm, designing SCRUM English seminars Currently collaborating with a team in the development of an English Language Course book (link to sample)
2014 - 2016	**Co - Founder** – Medicine.com.au – (Melbourne, Australia) *Co-founded online E-commerce pharmacy* • Led a team in the development of a 7000-product E-commerce website • Stakeholder Management – built partnership with large pharmacy chain in Sydney • Data analysis and research – Built a dataset of the Australian pharmacy market and developed statistical pricing strategies across our product range Currently minority shareholder and member of the advisory board.
2013 - 2014	**Associate – Product Manager** – Melbourne Accelerator Program *Managed and hosted the events for a Startup Accelerator program in Melbourne.* • Managed and hosted all entrepreneurial engagement events • Lead a team in the development of the *Startup Velocity Program* • Investment Advisory - Part of startup investment advisory board • Mentored startups in the MAP program and the startup ecosystem in Melbourne
2010 - 2012	**Assistant Accounts Manager** – Ryan Insolvency – (Melbourne, Australia) *Bookkeeping for one of Australia's largest insolvency Trustee firms.* • Prepared technical Insolvency reports for Australian Government departments • Maintained financial accounts for clients

EDUCATION	
2017 - CURRENT	**Master of Statistics** KU Leuven (Belgium)
2011 - 2015	**Bachelor of Commerce (B.Com.)** University of Melbourne Majoring in: Finance and Marketing

SKILLS	
Excel & PowerPoint	Expert
Web Scraping	Experience
Statistics & Data Analysis	Advanced
Data Wrangling	Advanced
R & R Markdown	Advanced
Python	Experience
Data Visualization	Experience
Git & GitHub	Advanced
Teaching & Training	Advanced
French Language	Experience
German Language	Beginner
Creative Writing	Expert

PROJECTS		TOOLS
2015 - 2018	**Dystopian Novel** · Wrote a dystopian future novel about the trend of rapid automation throughout the world and the ever increasing abstraction of jobs.	**R & R-Markdown** **Git & GitHub**
2018	**Sentiment Analytics Web Application of Australian Politicians** *Built a web application using Dash and Natural Language Processing to compare the sentiment of Australian politicians from newspaper articles* · Used API to retrieve newspaper articles on politicians · Built application with Dash to map sentiment across time	**Python** **Dash** **NLP** **SQL** **Apache Server**
2018	**Modelling Personality using the Big Five Factor Model** · Built Structural Equation Models to estimate the psychological personality traits Extraversion, Openness, Agreeableness, Conscientiousness, and Neuroticism · Results derived were congruent with previous studies on personality using the Big Five Factor Personality Model	**R & R-Markdown** **Git & GitHub** **Structural Equation Model (SEM)** **Five Factor Personality Model**
2018	**Logistic model of Kidney Transplant success rate** · Modeled the probability of Kidney Transplant success using Logistic Regression	**R & R-Markdown** **Git & GitHub** **Logistic Regression**
2018	**Measuring effectiveness of treatment for Epilepsy** · Modeled number of seizures suffered by two patient groups to determine the effectiveness of treatment, Progabide	**R & R-Markdown** **Git & GitHub** **Poisson Regression**
2018	**Blablacar Mapping Visualization Tool** *Identified market need for visualizing the most convenient locations to pick-up and drop-off passengers in foreign cities using the Blablacar service.* · Utilized Blablacar API to build dataset of 5000 pick-up/drop-off locations · Used Python for requesting trip data from Blablacar API · Built R Shiny application to visualize the clusters	**R & R-Markdown** **Git & GitHub** **Python** **Blablacar API** **R Shiny**
2014 - 2017	**Predictive Modelling of Sporting Events** *Successfully identified arbitrage gambling opportunities in the Australian Football gambling markets.* · Built large dataset of the Australian Football League player statistics, using web-scraping tools, with data sourced from Wikipedia, gambling and sporting sites · Built Linear Regression and Logistic Regression models to predict football games	**Excel** **R** **Git & GitHub** **Linear Regression** **Logistic Regression**