Zhenwei YANG

MSc Method&Statistics | Research Intern at Utrecht University

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Ravenoord 67, 3523DB, Utrecht, the Netherlands
Combined background of Medicine and Data analytics

Education

2019 - present	MSc in Method & Statistics at Utrecht University, the Netherlands (present avg. score : 8.43/10)
2017 - 2018	Exchange Program at VU Amsterdam, the Netherlands (statistical methods 9.0)
2014 - 2019	BMed in Preventive Medicine (5-year) at Fudan University, China (GPA : 3.3/4.0)

Research Experience

Present – September 2020 | **Combining Latent Budget Analysis with Neural Networks for Compositional data, UU, the Netherlands**
Supervisors : Ayoub Bagheri, Prof. dr. Peter van der Heijden
- Use neural networks to interpret the framework of Latent Budget Analysis (LBA)
- Plan to develop a function in R to predict prospective cases in the context of compositional data

R | package : lba | package : keras

November 2020 – September 2020 | **Content-Based Shape Retrieval System, UU, the Netherlands**
Course : Multimedia Retrieval
- Preprocessed 3D shapes in Labeled PSB dataset and extracted 10 features from normalized meshes
- Built a query system on a graphic user interface through customized matching techniques and scalability techniques (K nearest neighbours)

Python | package : open3D | package : Trimesh | package : Scikit-learn | package : Tkinter

July 2020 – February 2020 | **Methods for "Treatment Paradox" Correction in a Time-dependent Cox Model, LUMC, the Netherlands**
Supervisor : Prof. dr R.H.H. Groenwold | Manuscript in preparation
- Conducted a simulation study to implement six techniques for "treatment paradox" in a prognostic model (i.e., a time-dependent Cox model)
- Studied the factors that could impact the performance of the six techniques

R | package : rms | package : pec | package : survival

June 2019 – March 2019 | **Prognostic Factors for the Cognitive Function Development of Parkinson's Disease, FDU, China**
Supervisor : Jianfeng Luo
- Built a mixed model based on PPMI dataset to explore the development of cognitive function of patients with Parkinson's Disease
- Found that complications and medicine usage (e.g. CCB) will influence the overall cognitive function indicated by MoCA over 5 years

R | package : nlme | package : lattice

Work Experience

Programme Advisory Committee Member 09/2019 - Present
Evaluate the setting and teaching of the programme; Organize programme activities, e.g. Open Master Day, Christmas Dinner

Graduate Teaching Assistant at UMCU 04/2020 - 06/2020
Helped assist students from BMSc for Bioinformatics in theoretical lectures and computer practicals; Mainly focus on R programming skills, supervised learning and statistical concepts, etc.

Part-time Analyst in IQVIA 11/2018 - 05/2019
Supported two projects about launching two innovative medicine in Chinese market; Conducted desktop research, KOL interview and market prediction

References

Prof. dr R.H.H. Groenwold
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