[Department of Statistics] Msc Progress Report

Research Student: Junhuang Xue

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Proposed Title: Anomaly Detection in Emergency Department Arrival, with Bayesian

Hierarchical Models

Main Supervisor: Thomas Lumley, Professor of Bio-statistics, University of Auckland

Project objectives

Week 1	Stage Literature reviews	Article/Stage Report Literature notes
12	Research proposal	Research proposal
18	Methodologies	Bayesian Notes
24	Pilot test/Simulation	R-Codes
28	Main test/ ED Data	R-Codes
36	LateX Report	Draft Thesis
48	Touch up	Draft Thesis
52	Submission	Thesis

Completed objectives

Literature reviews 60+literature and notes in several separate word documents.

Research proposal submitted

Simulation completed data generation, still working on JAGS

ED Data obtained MIMIC, requesting NMDS and may need to look for gene-expression data.

Latex report 48 pages of drafts and notes here and there, background section 70% done, other section 10% ish.

Problems

Spent too much time on simulations Doesn't seem to have enough material for a good Thesis. Behind in progress Further work planned Need to speed up progress	ne expressi		
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Further work planned	ne expressi		
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Need to speed up progress	ne expressi		
	ne expressi		
Need to close off simulation in 2 weeks max	ne expressi		
Need to finish results in 8 weeks max (MIMIC, NMDS, Ge		on)	
Start cleaning up notes and work on latex.			
Student :	Date:	/	/
Main Supervisor :	Date:	/	/
Accepted:			
PG Coordinator :	Date:	/	/
rg Cooldinator:	Date:	—/—	<u> </u>