

# Data Mining Research Lab at SFU

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- SFU's School of Computing Science
- Martin Ester, Jiannan Wang, Ke Wang
- 30 graduate students, undergraduate students, post-docs, visitors
- Data Mining, Machine Learning, Recommender Systems, Data Warehouses, Data Privacy
- Collaborations with Vancouver Prostate Centre, BC Children's Hospital, BC Hydro, VanCity
- SFU Omics Data Science Initiative

# Data Mining in Health Data

- Precision Oncology
- Personalized drug response prediction

Genomic profile → drug response

Use public data from The Cancer Genome Atlas



- Discovery of genomic causes of adverse drug reactions



Creation of a Canada-wide database of ADRs  
in pediatric cancer patients

Development of data mining methods

→ Bottleneck is the availability of patient  
data with genomic and clinical attributes