

# ISFG Short Term Fellowship report

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I have visited Professor James Curran and his research group at Department of Statistics, The University of Auckland, New Zealand, from February 2018 to July 2018.

The scope of the collaboration was statistics for forensic genetics. We were planning on doing research in statistical methods for interpretation of results from lineage markers.

The main outcome was a new method to estimate Y-STR population frequencies using Chow-Liu trees. Our results were documented in a peer-reviewed paper (“Modelling the dependence structure of Y-STR haplotypes”) that has been accepted in the *Forensic Science International: Genetics* journal.

We also initiated further collaboration that we hope will result in one or more peer-reviewed papers in the future.