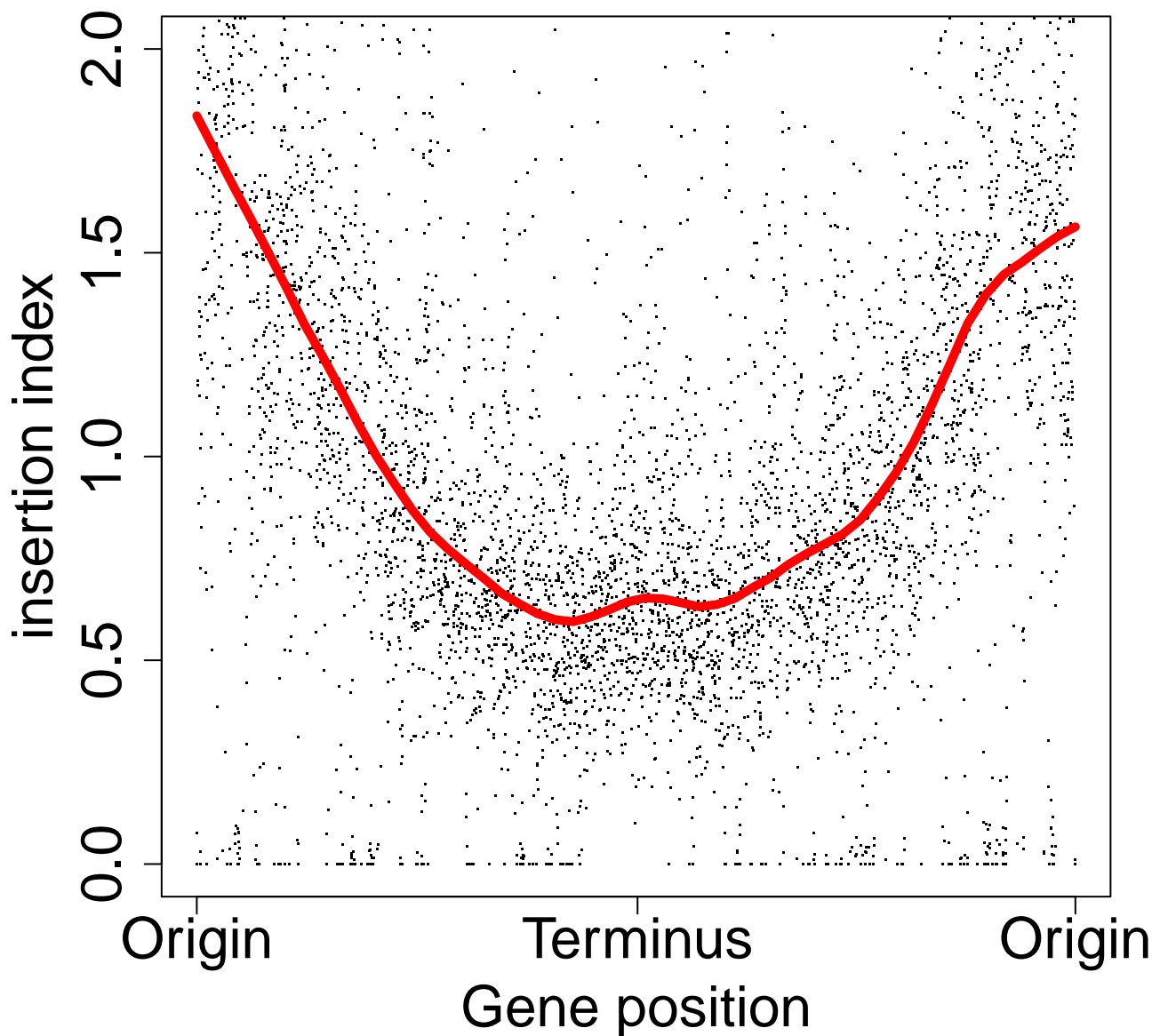
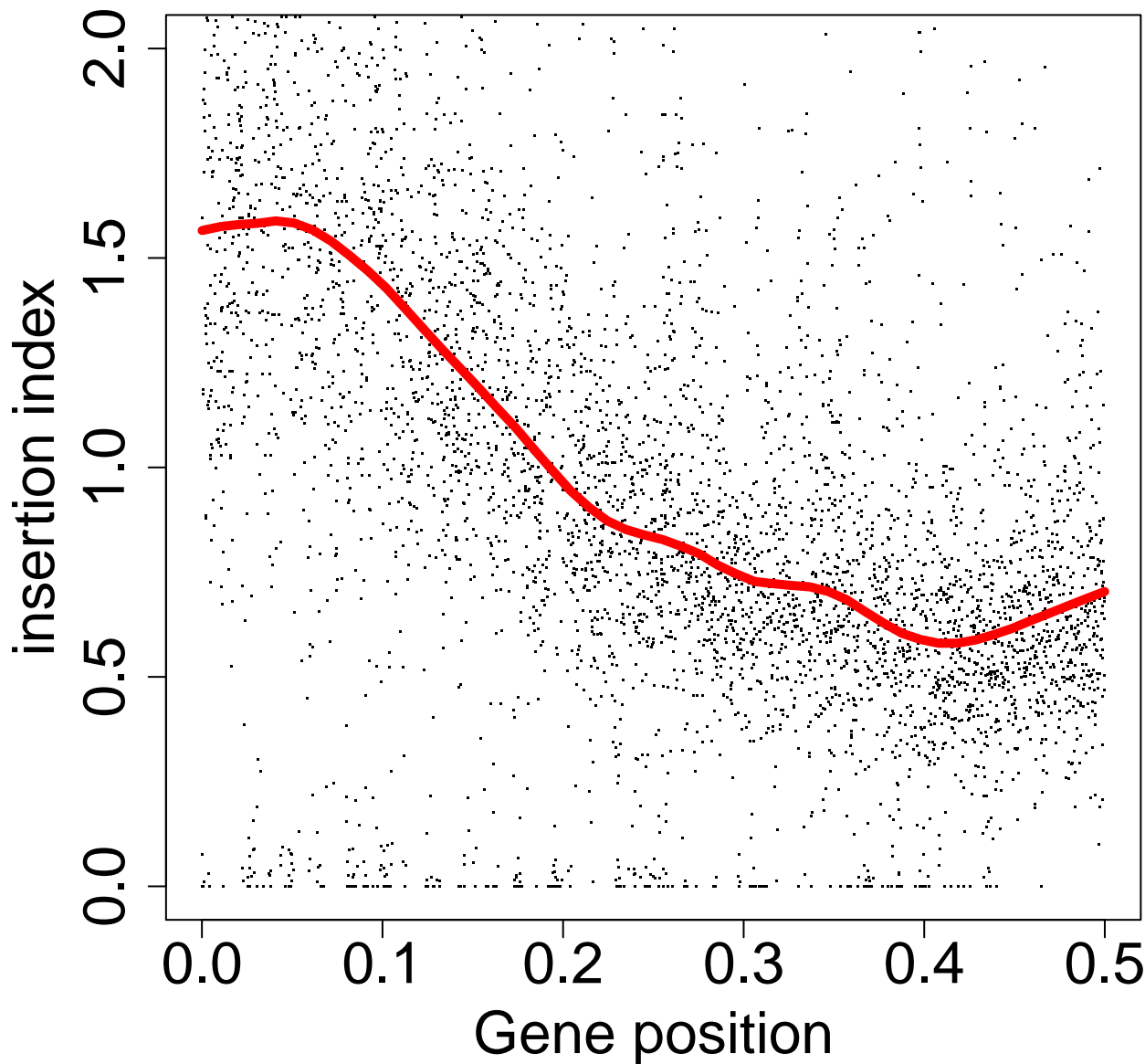


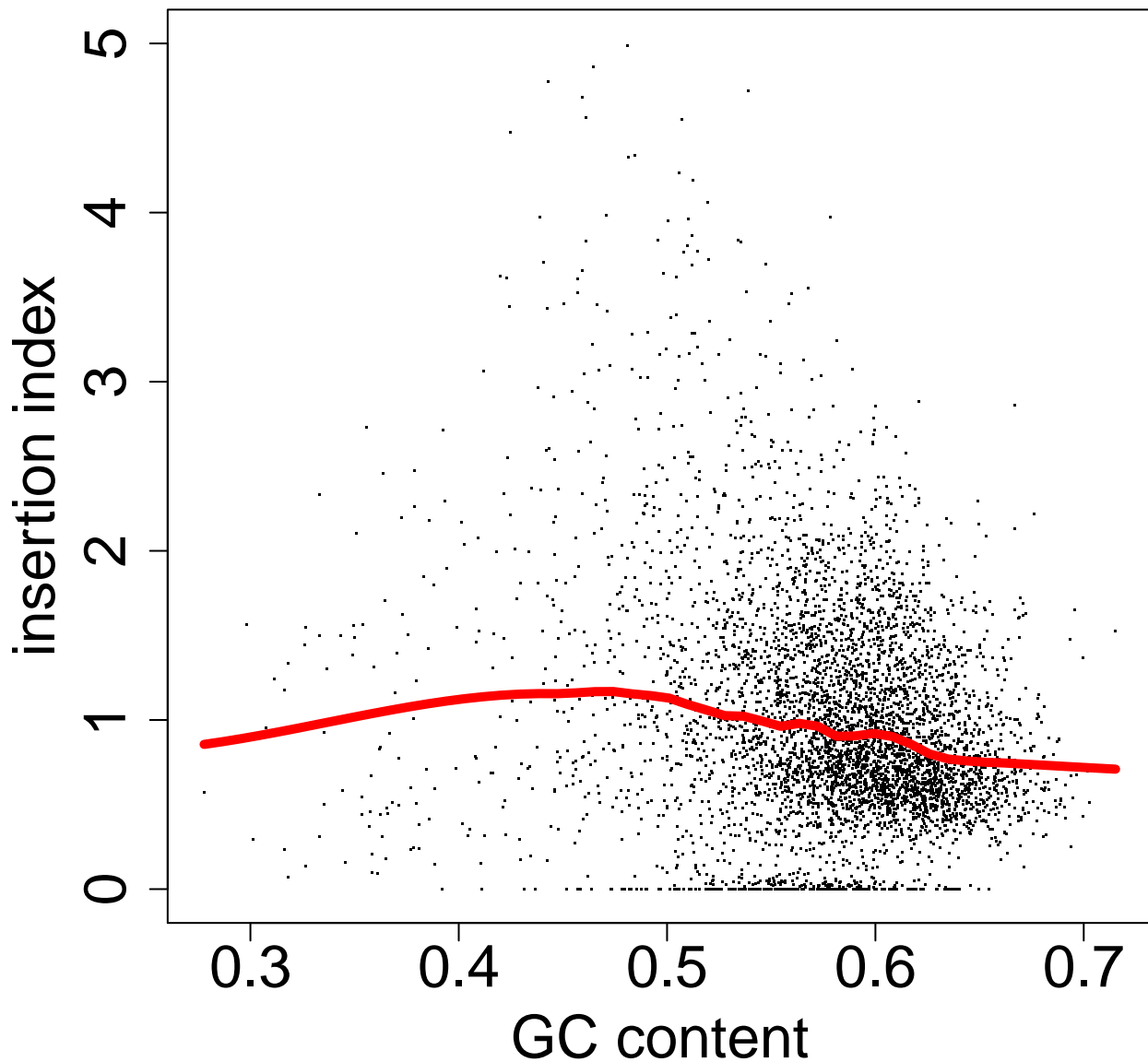
Distance bias – *Klebsiella pneumoniae* Ec



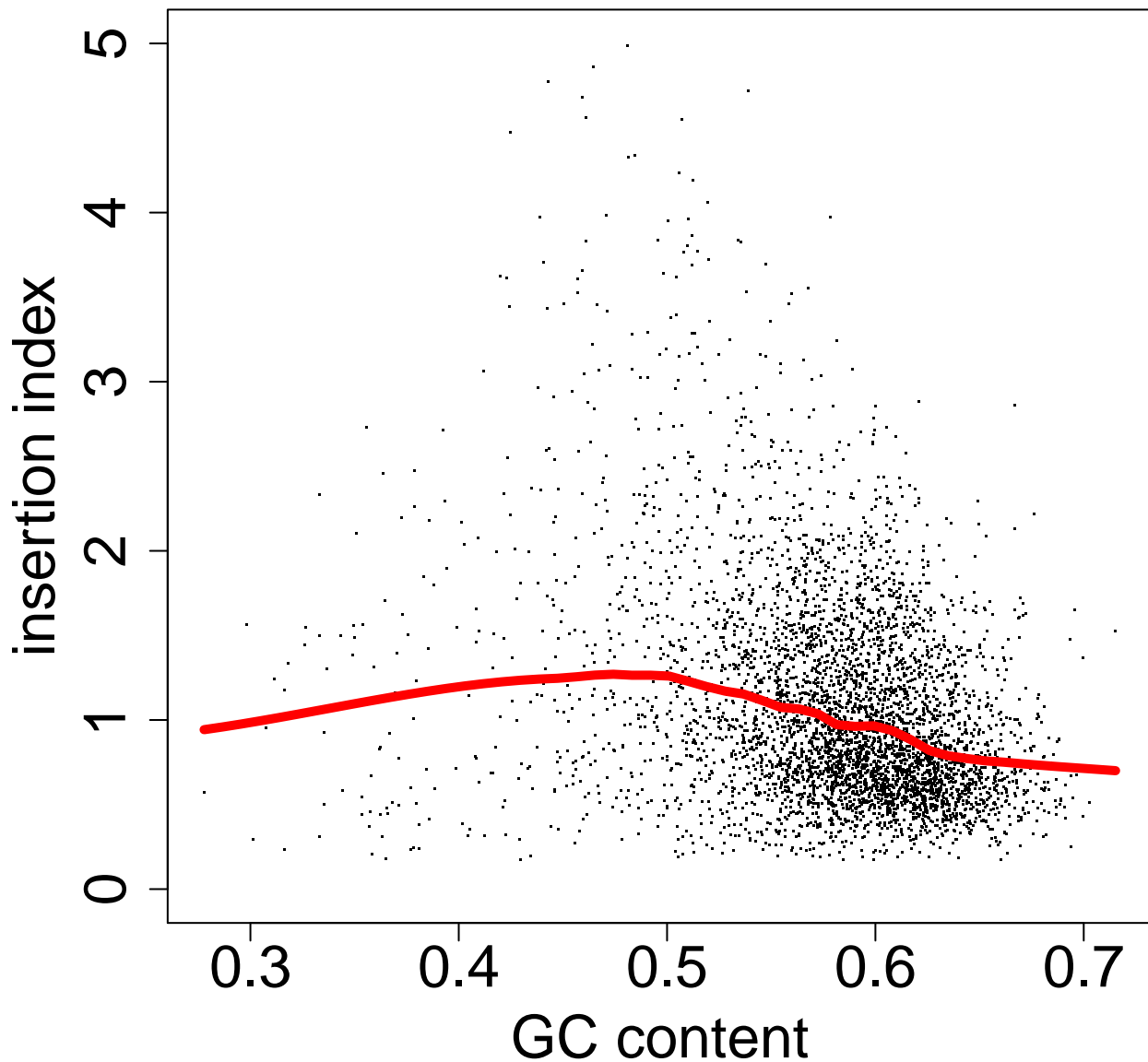
Distance bias – *Klebsiella pneumoniae* Ec



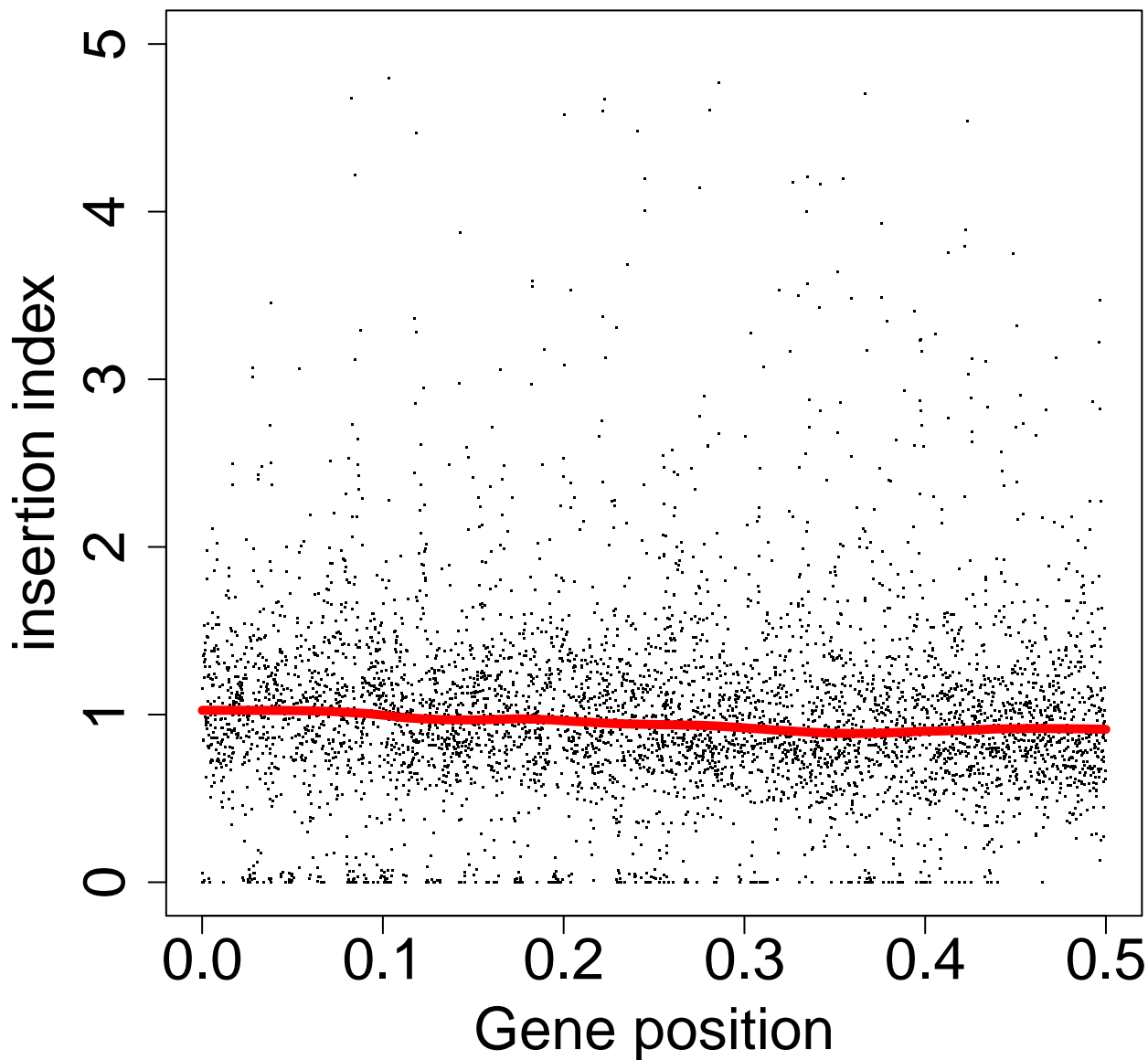
GC bias – *Klebsiella pneumoniae* Ecl8



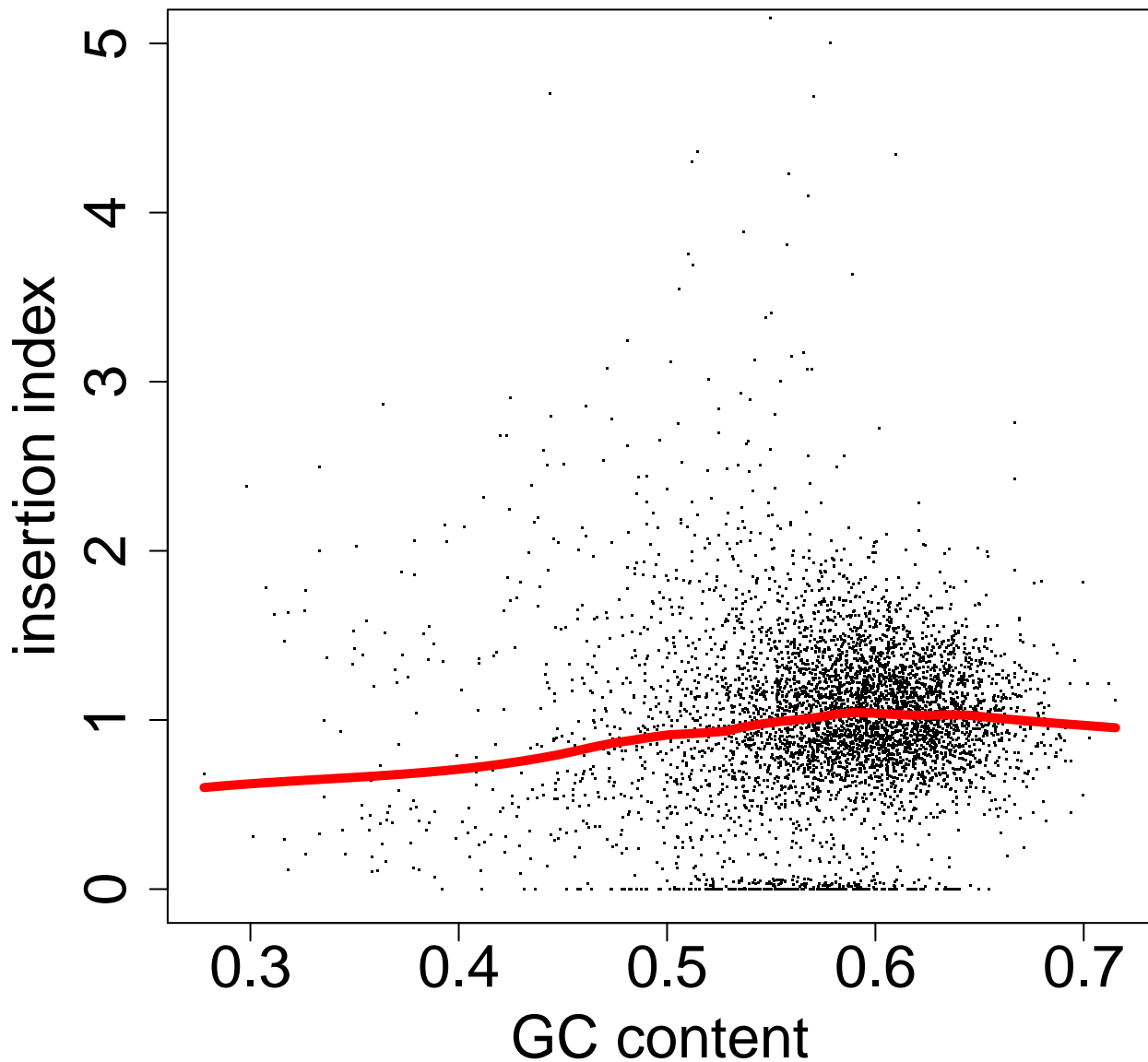
s without essential genes – *Klebsiella pneumoniae*



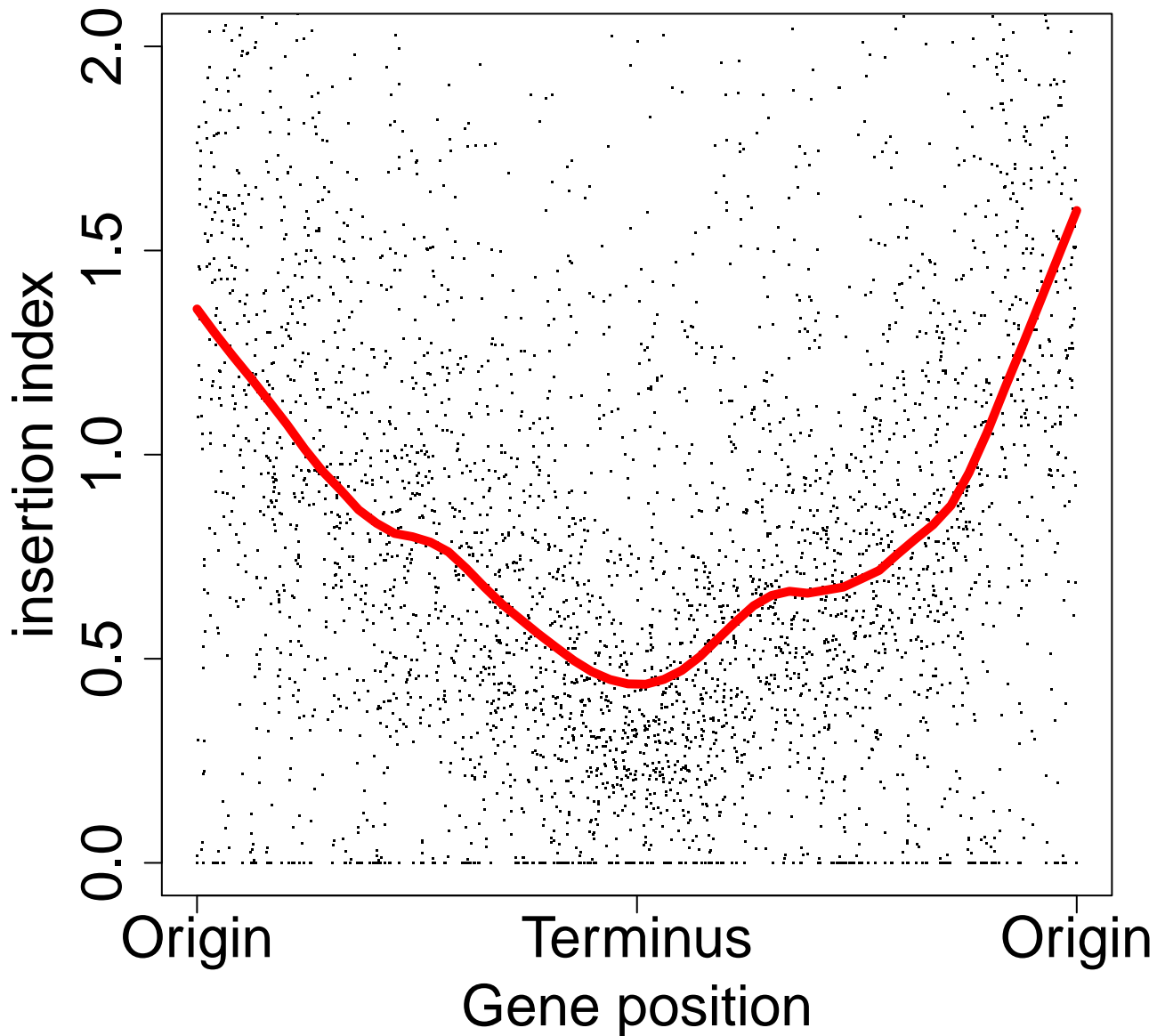
Klebsiella pneumoniae Ecl8 – normalised dist



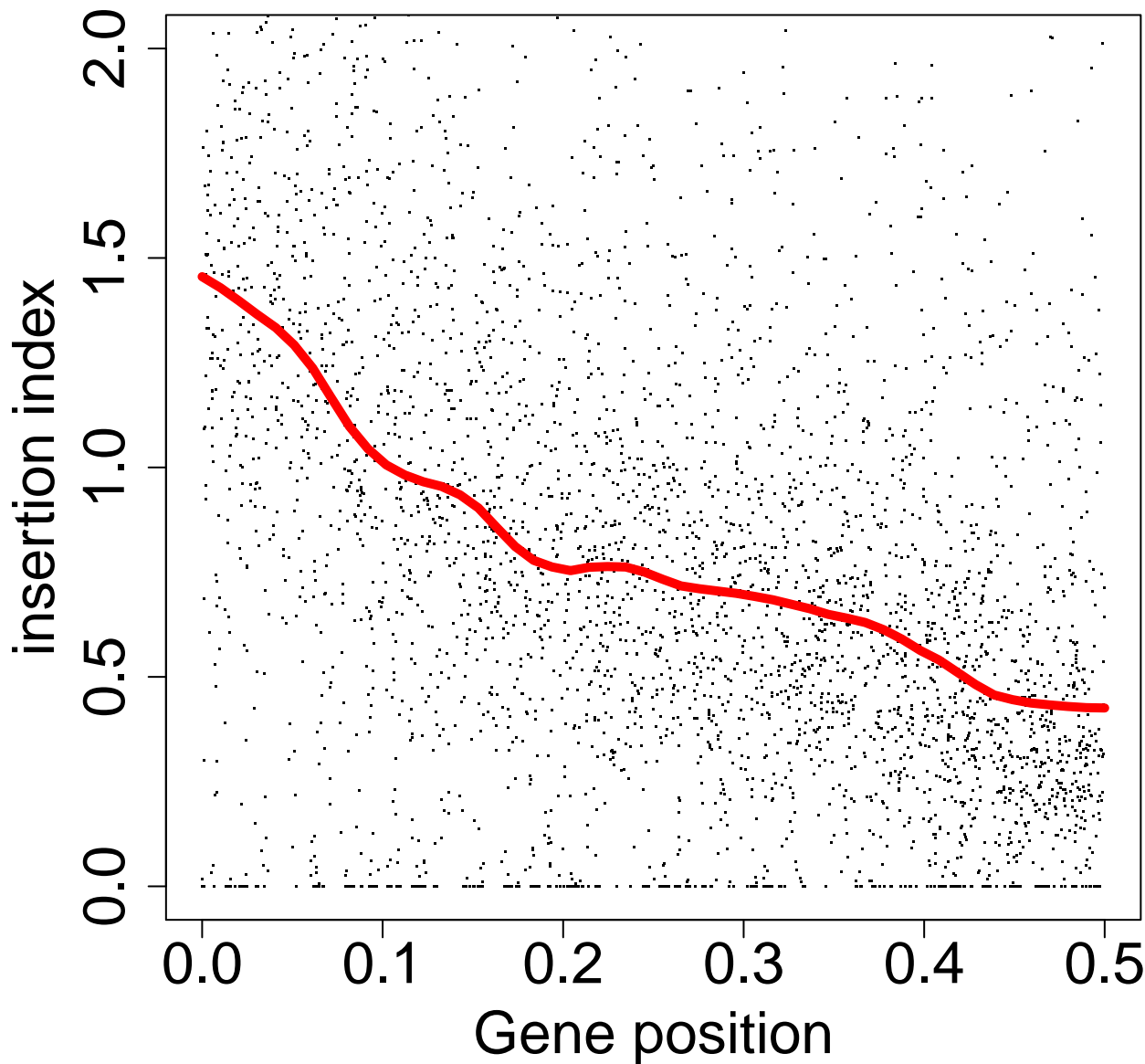
Klebsiella pneumoniae Ecl8 – normalised C



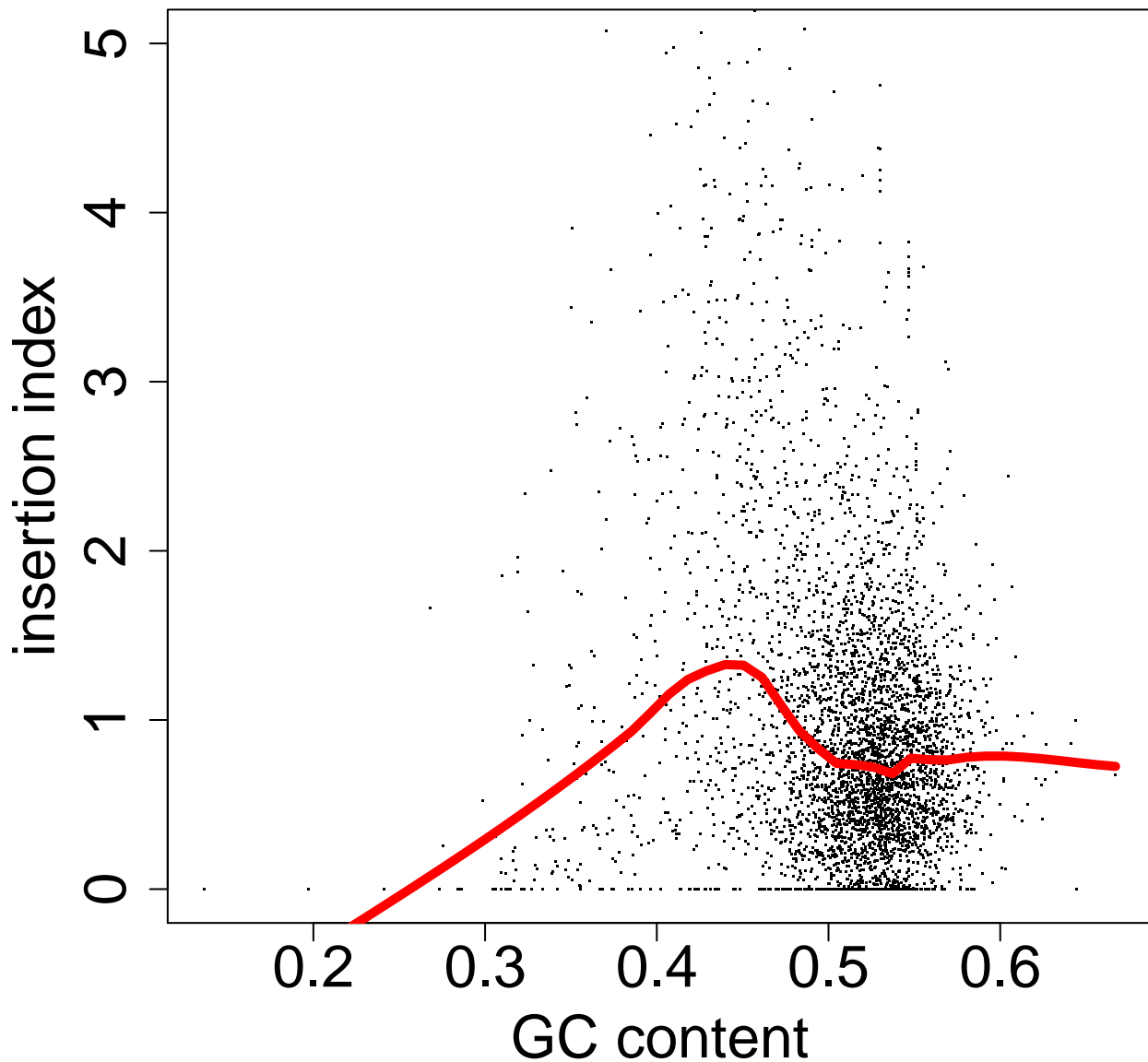
Distance bias – *Escherichia coli* BW25113



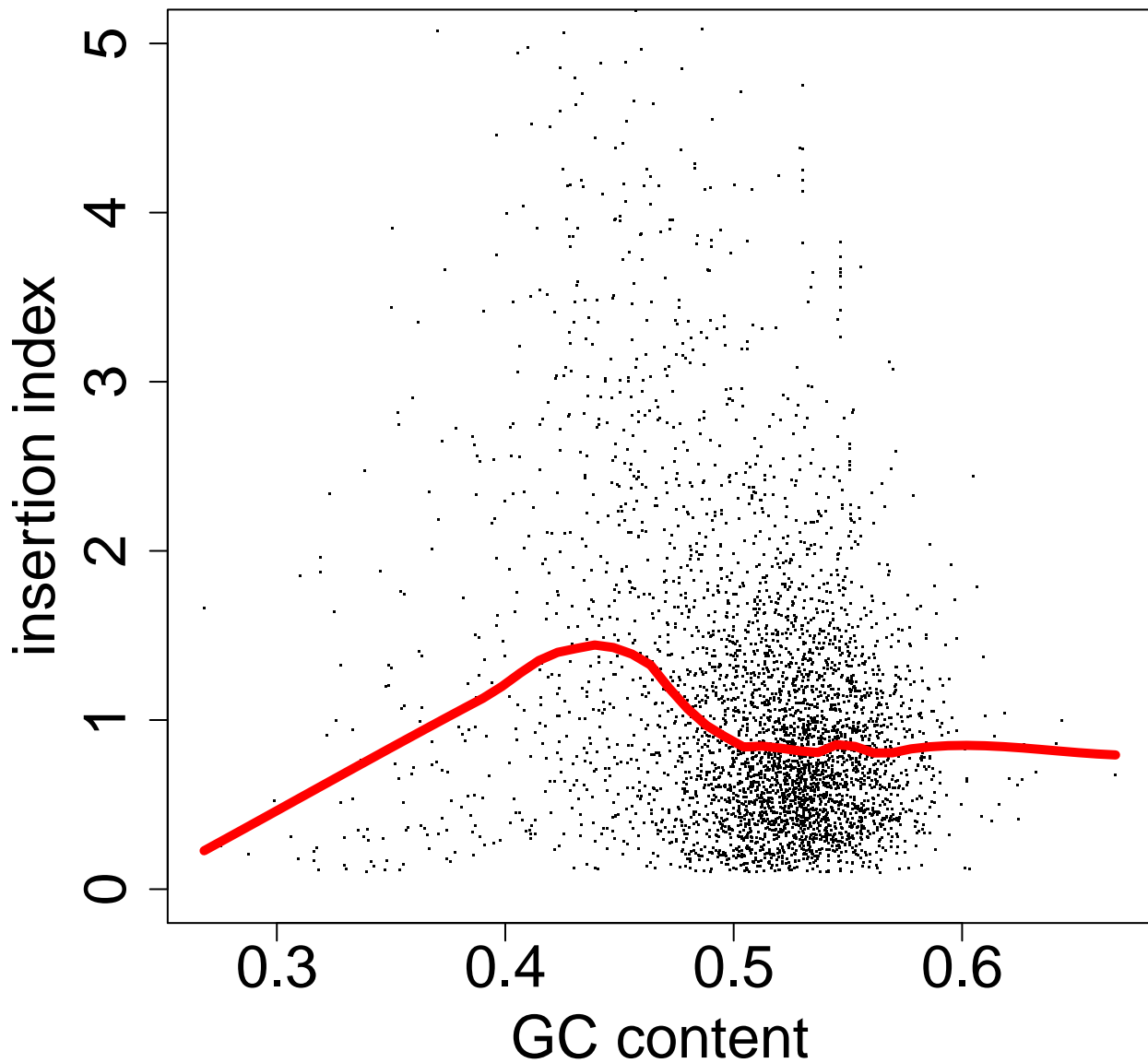
Distance bias – *Escherichia coli* BW25113



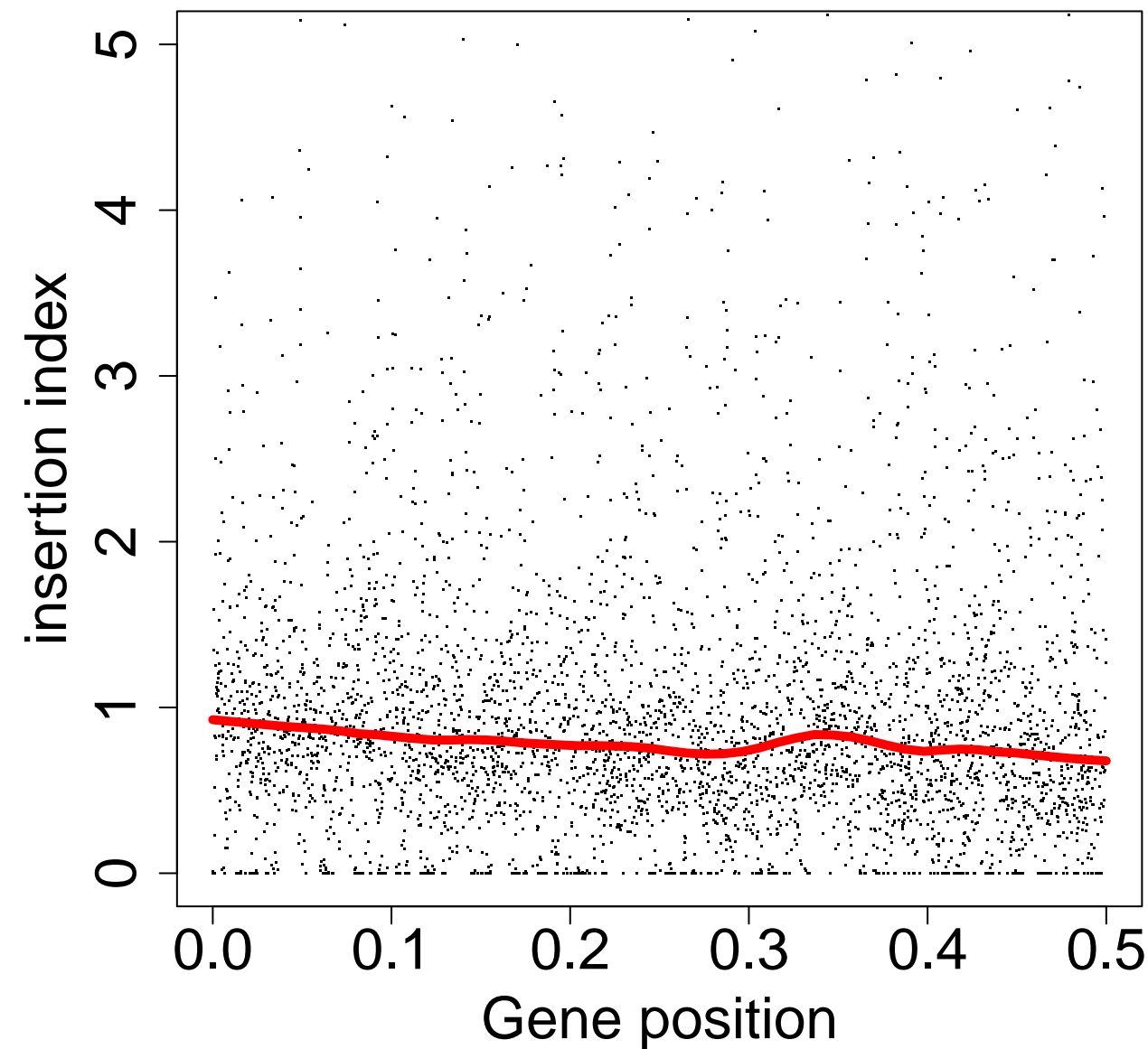
GC bias – *Escherichia coli* BW25113



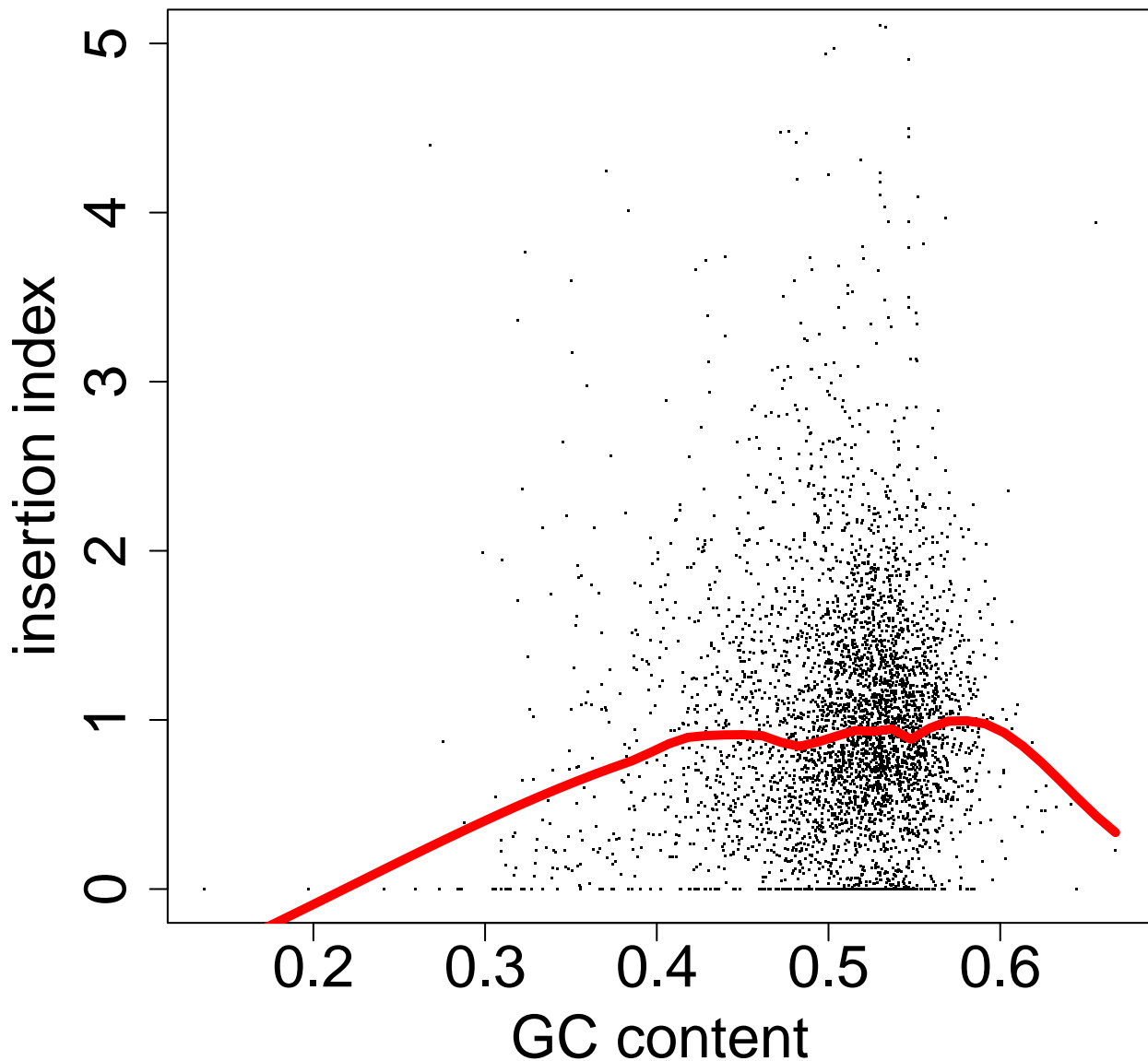
as without essential genes – *Escherichia coli*



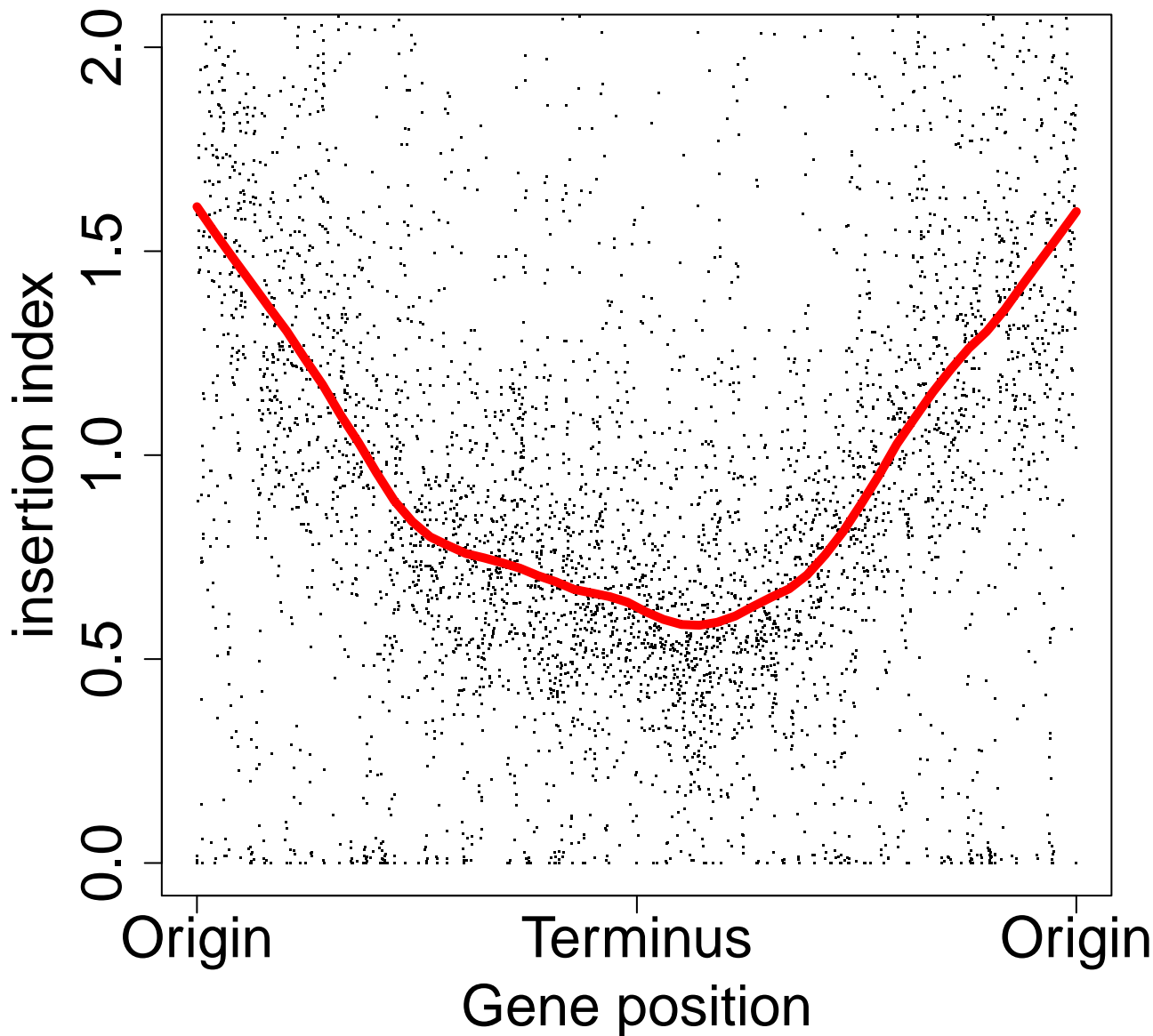
Escherichia coli BW25113 – normalised dista



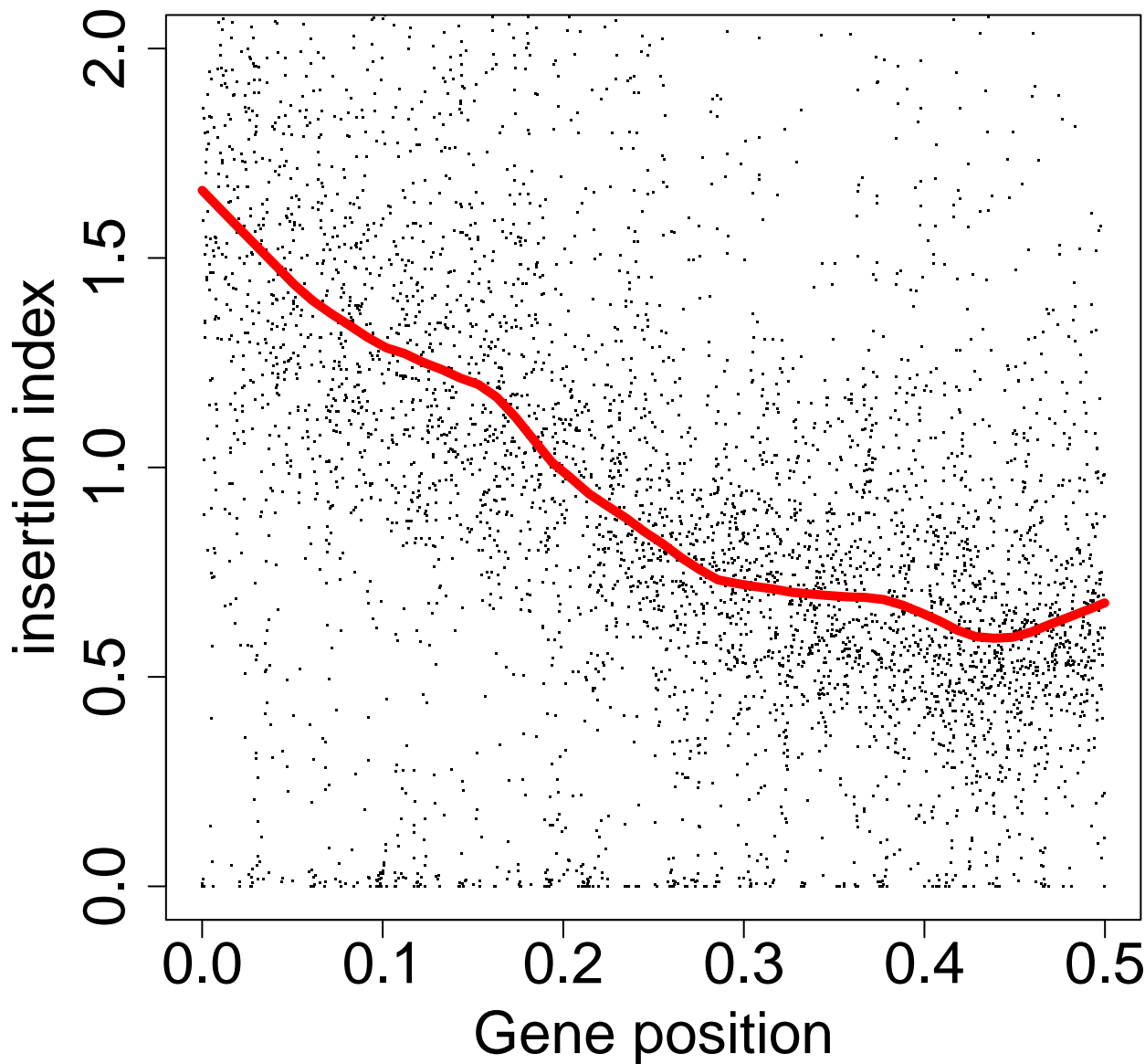
Escherichia coli BW25113 – normalised G



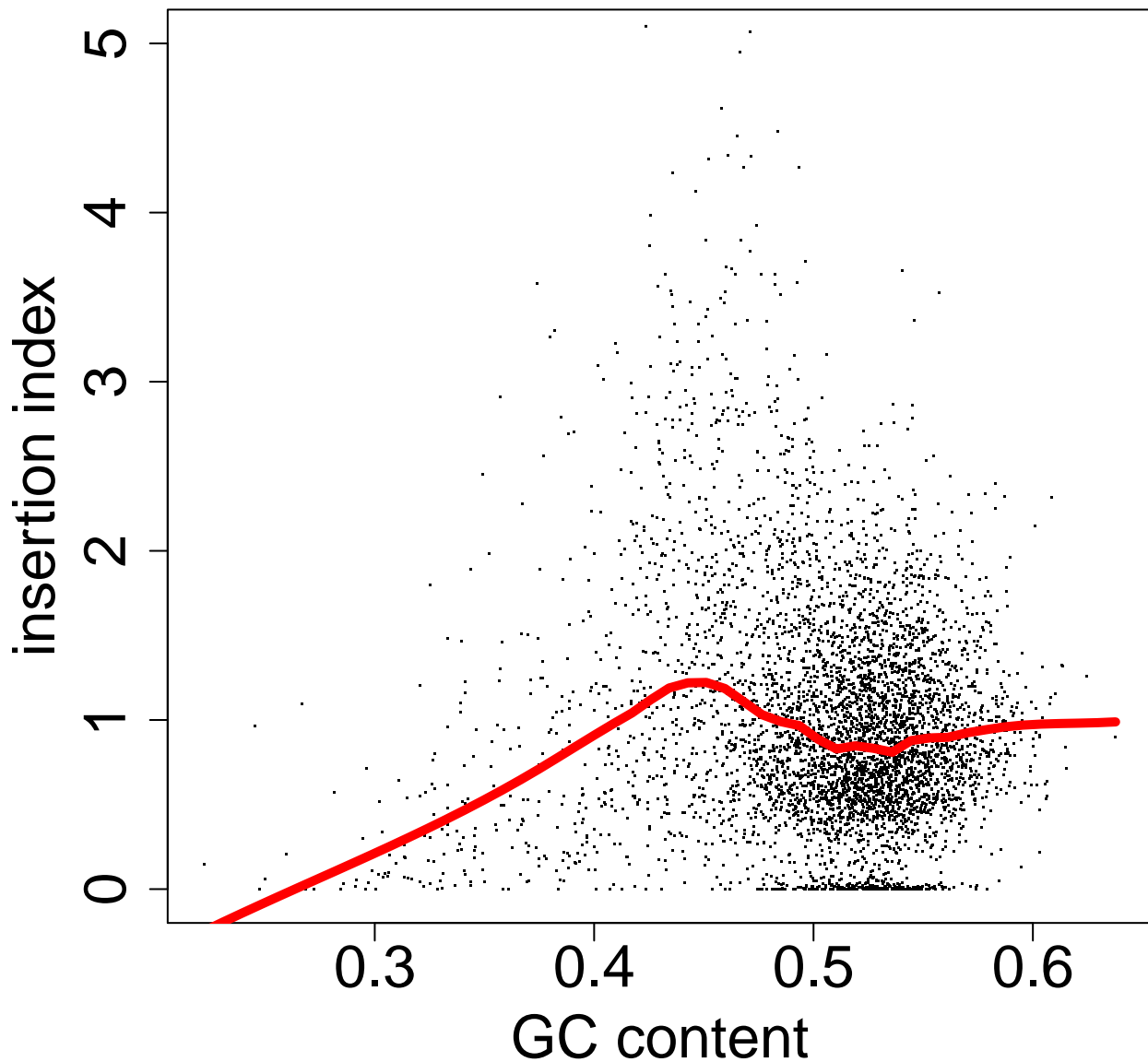
Distance bias – *Escherichia coli* ST131 EC9



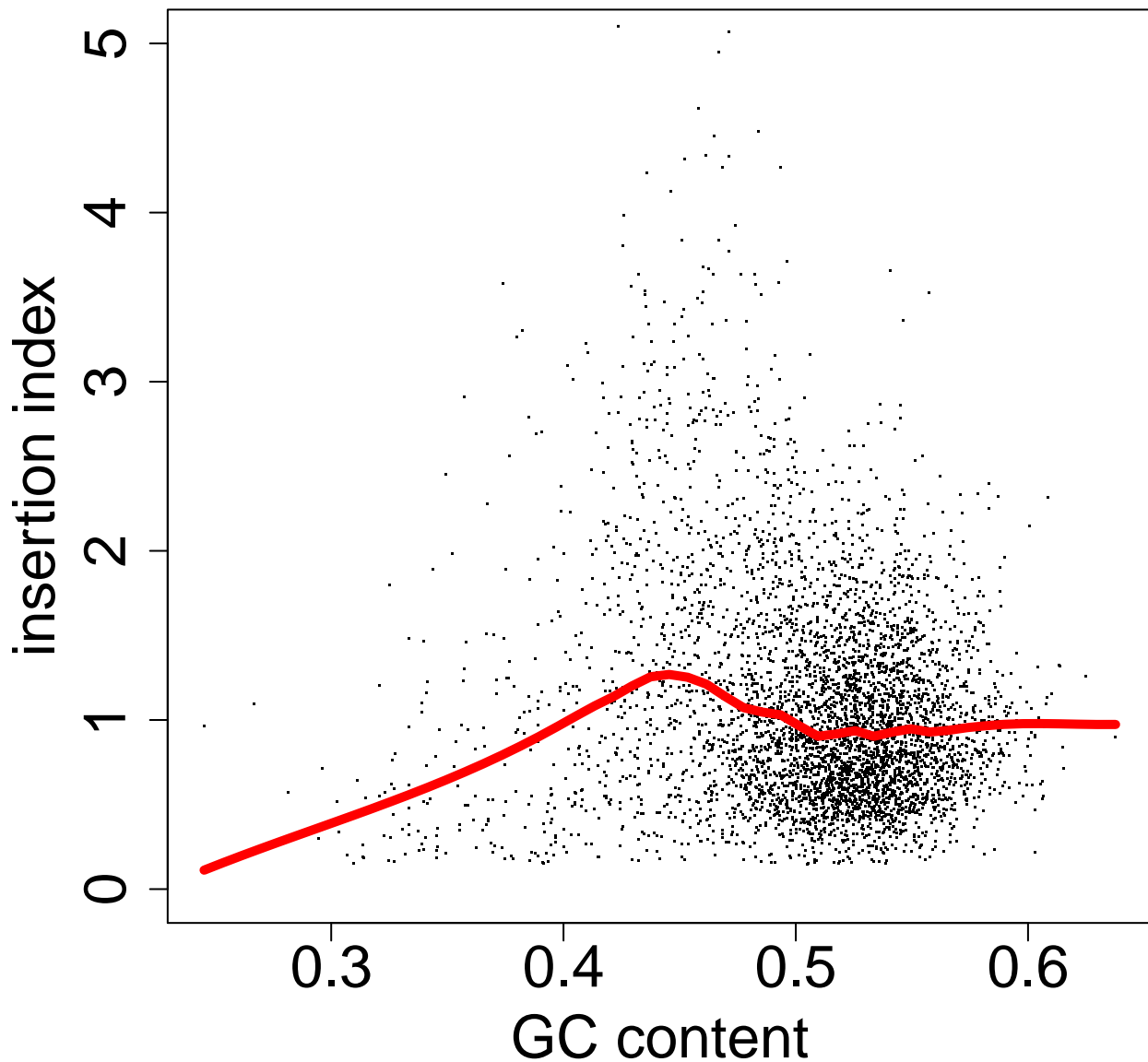
Distance bias – *Escherichia coli* ST131 EC9



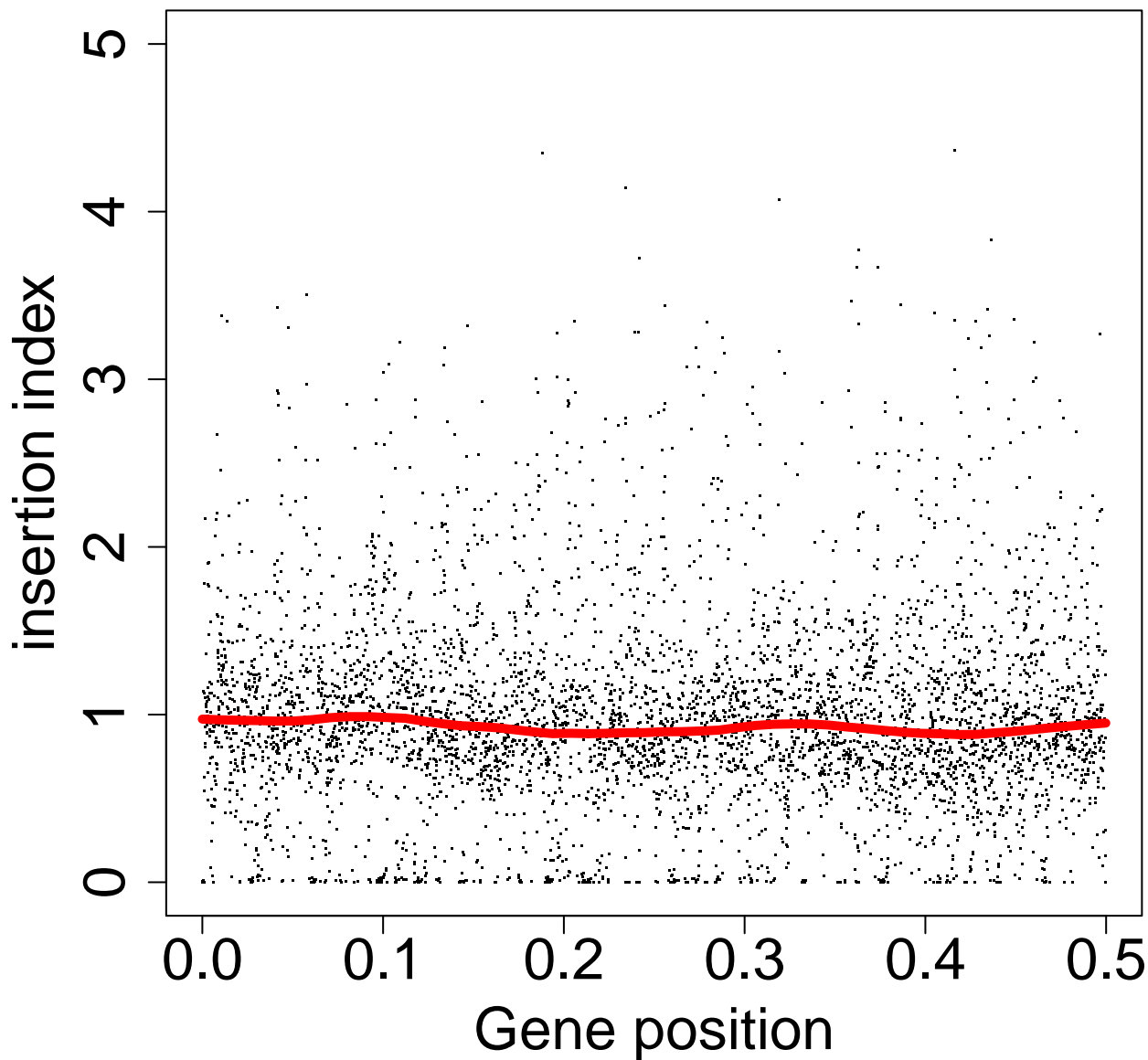
GC bias – *Escherichia coli* ST131 EC958



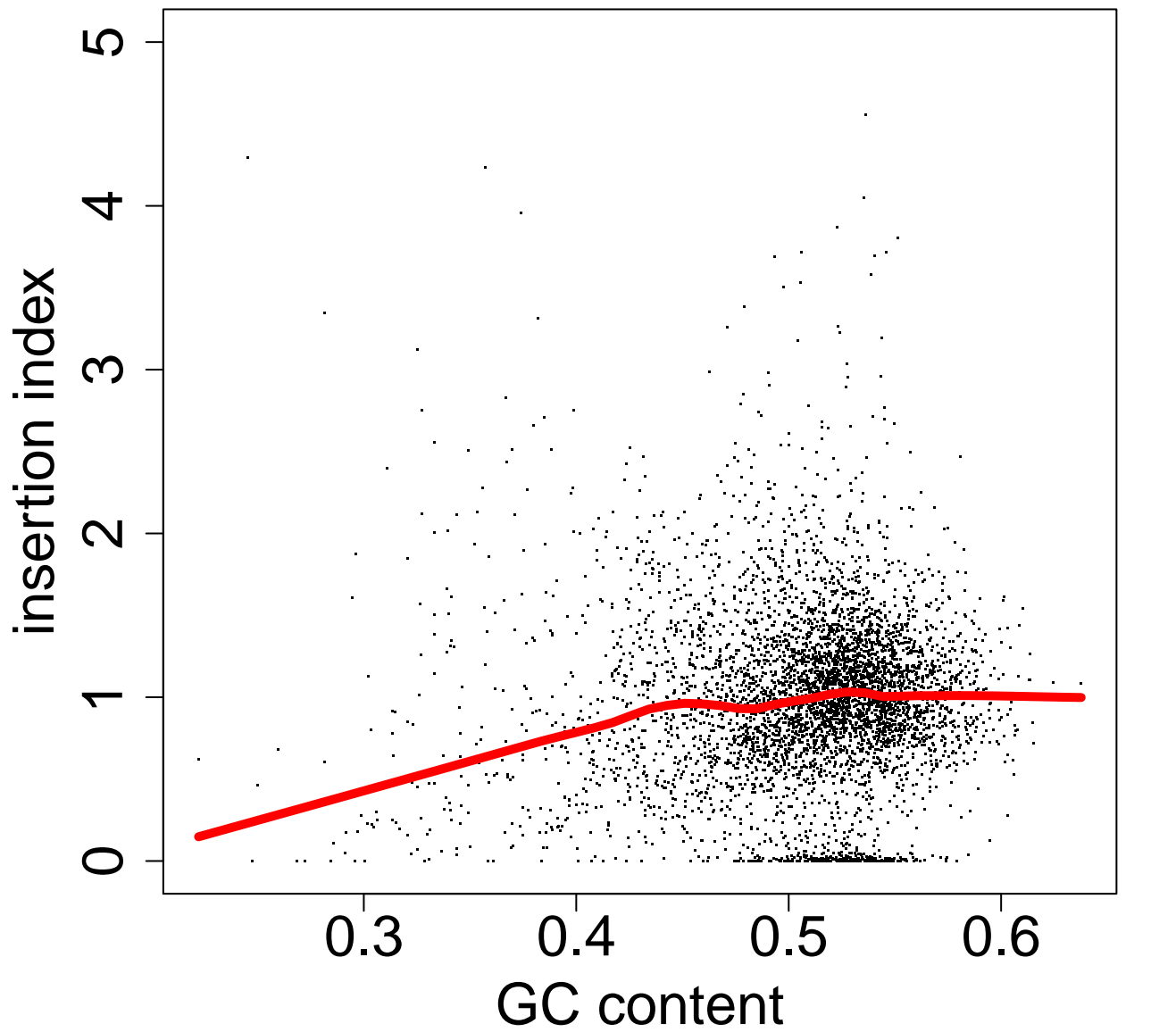
without essential genes – *Escherichia coli* S



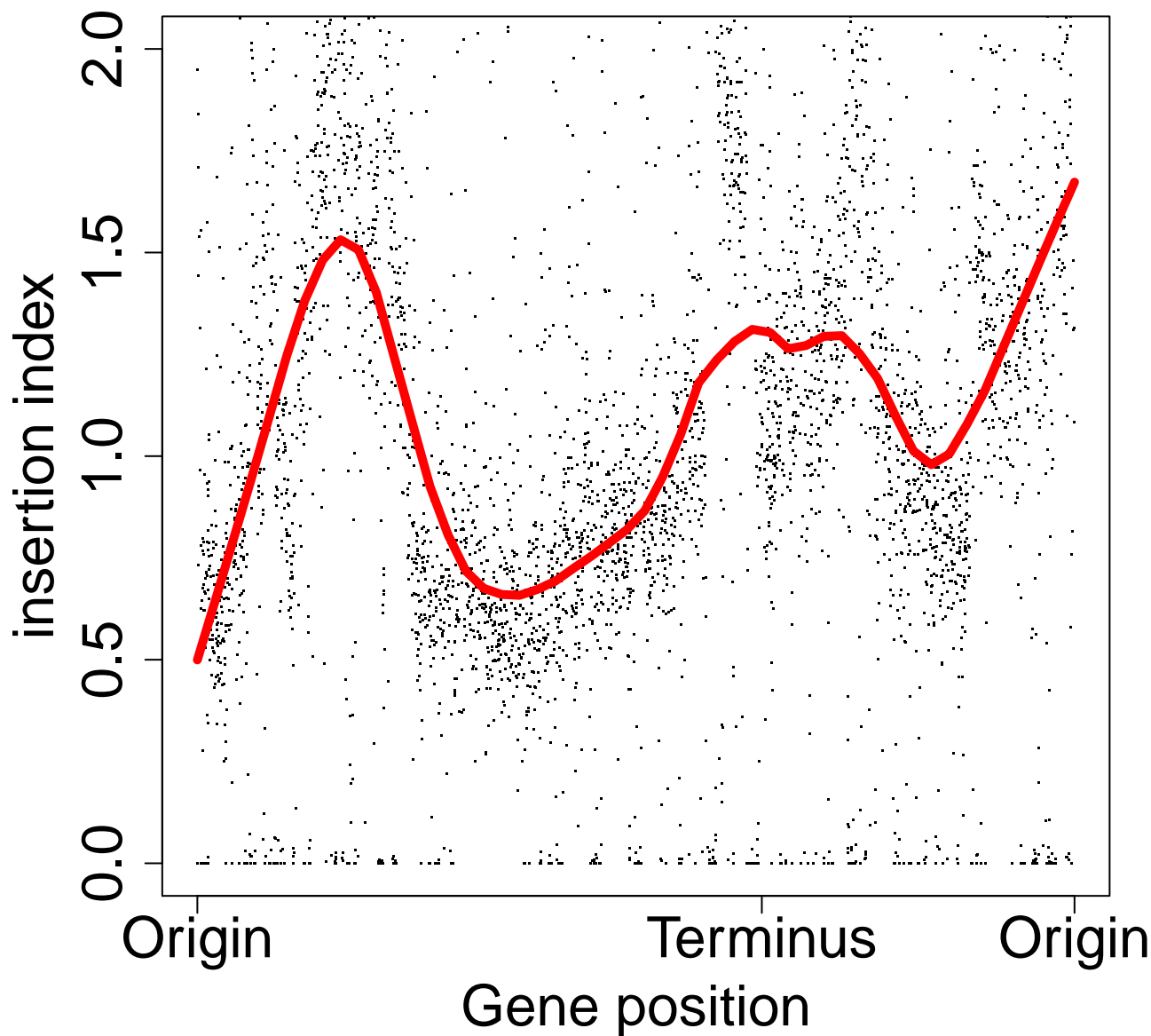
Escherichia coli ST131 EC958 – normalised dis



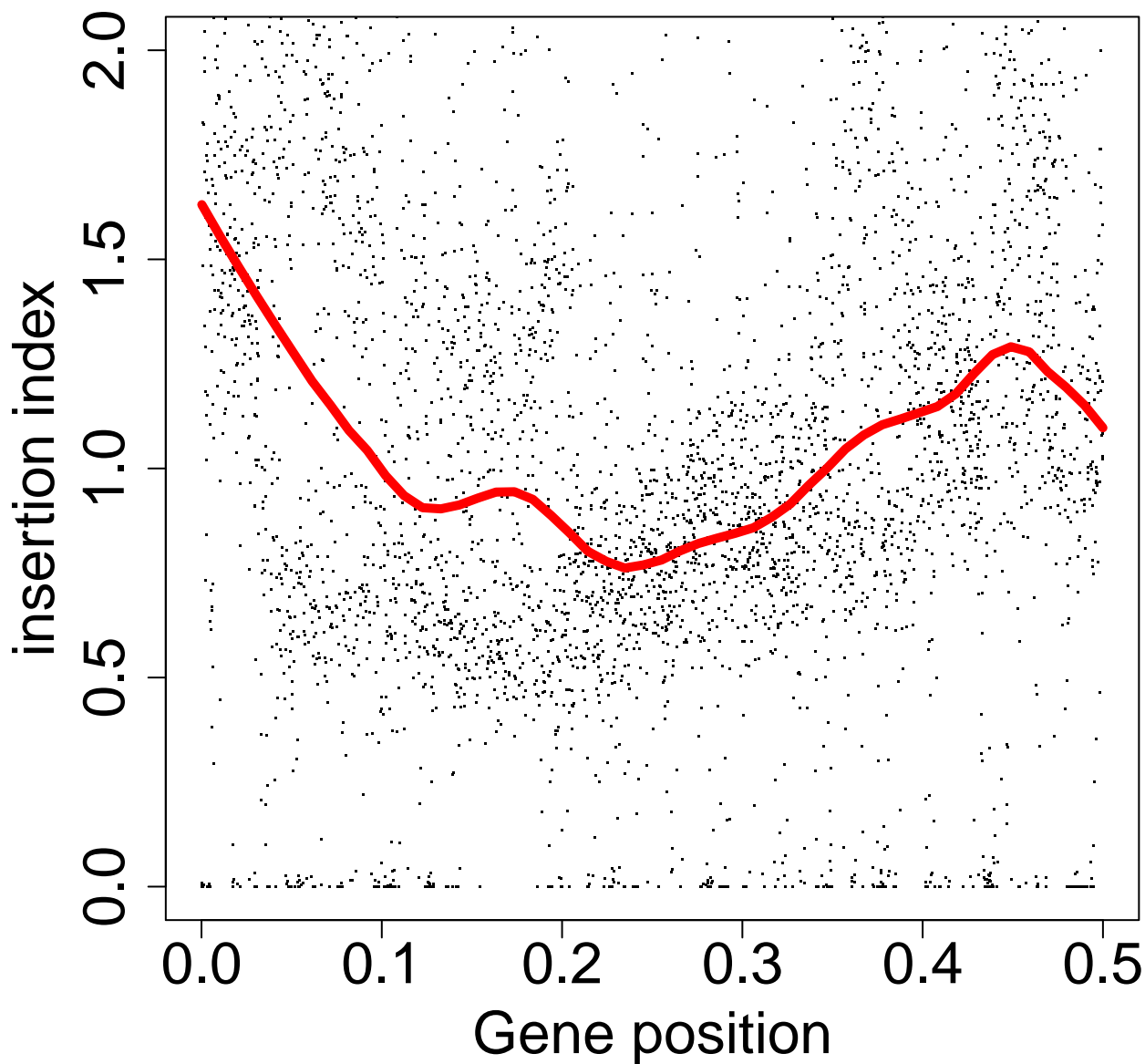
Escherichia coli ST131 EC958 – normalised



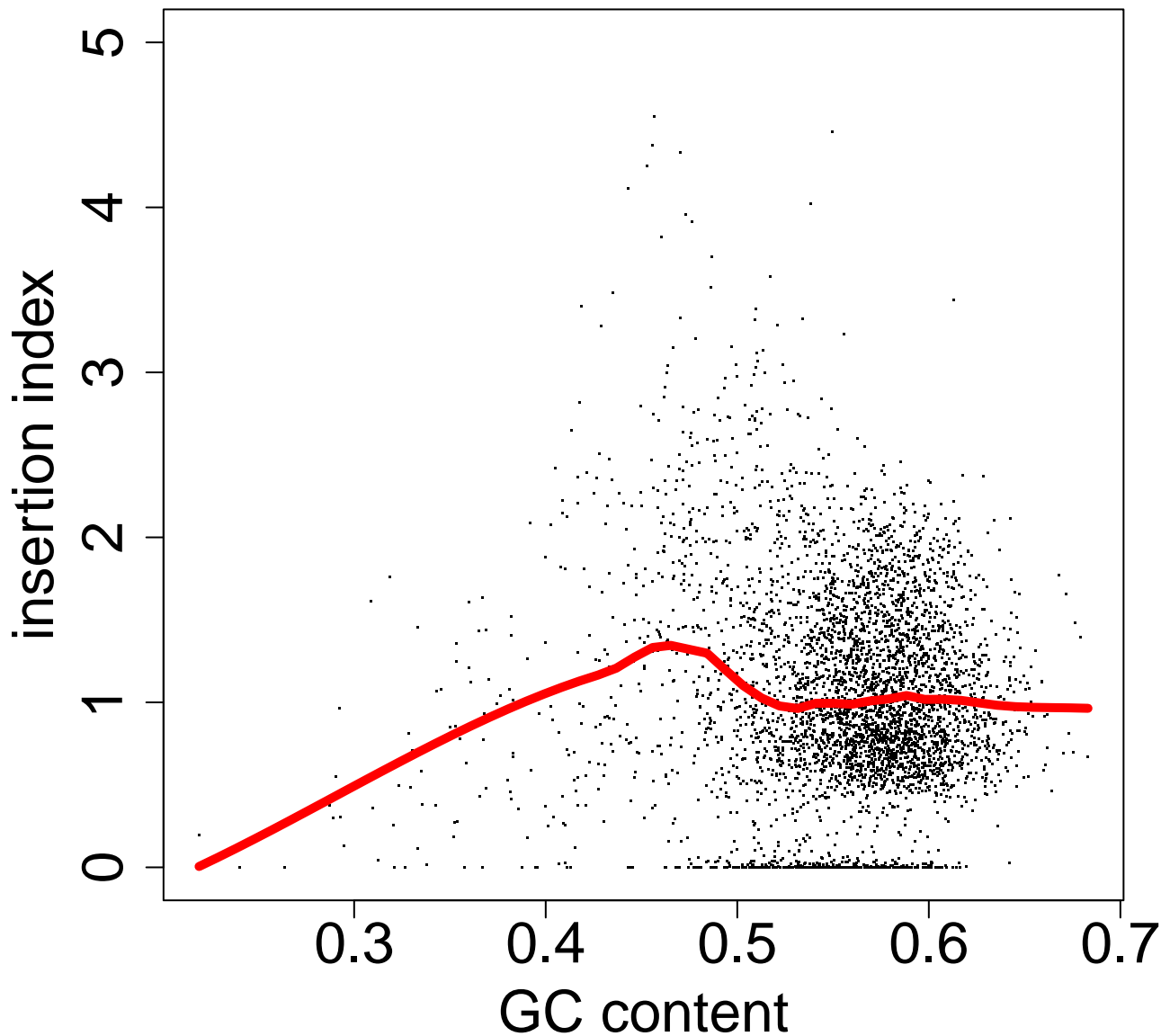
Distance bias – Enterobacter



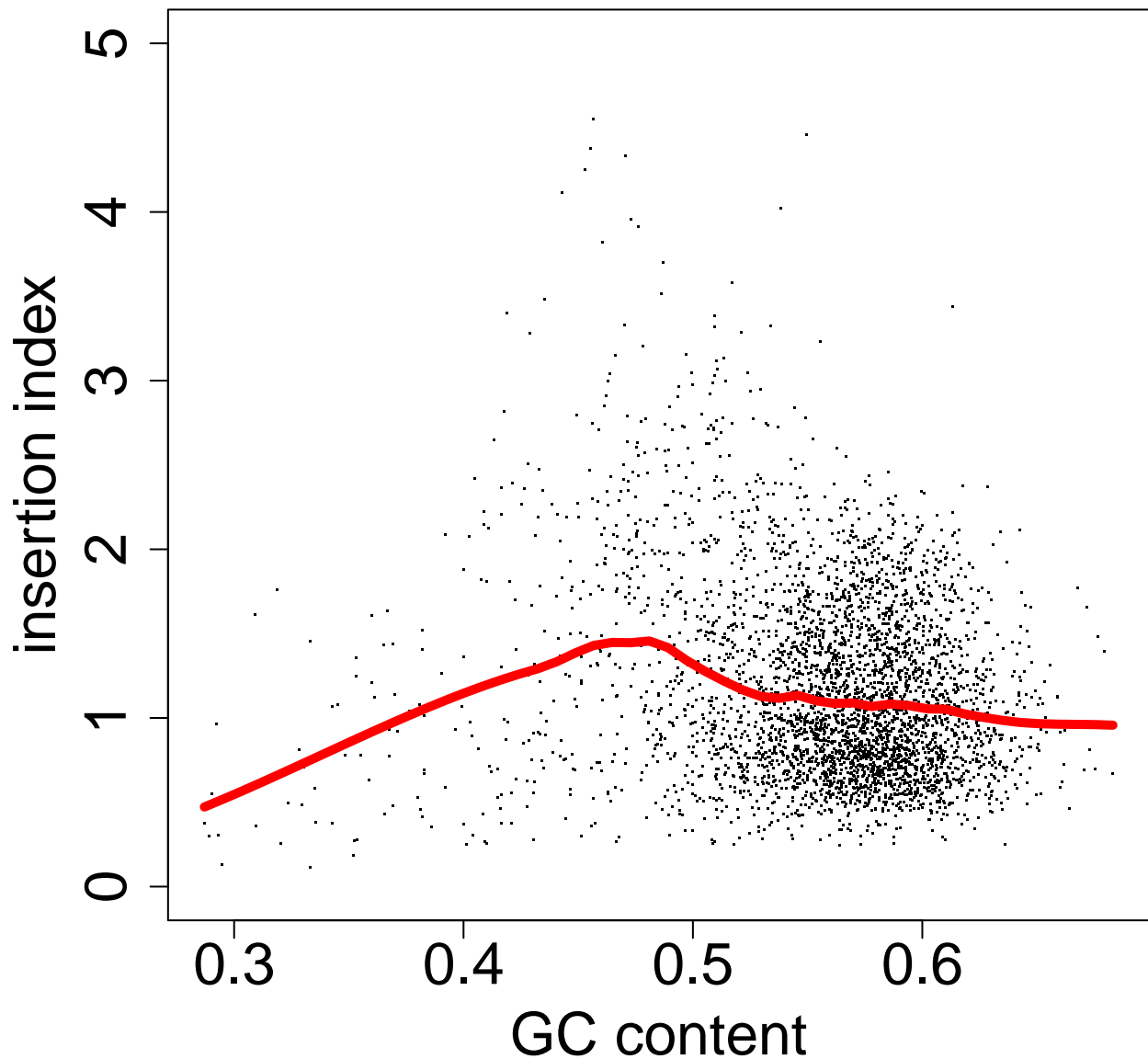
Distance bias – Enterobacter



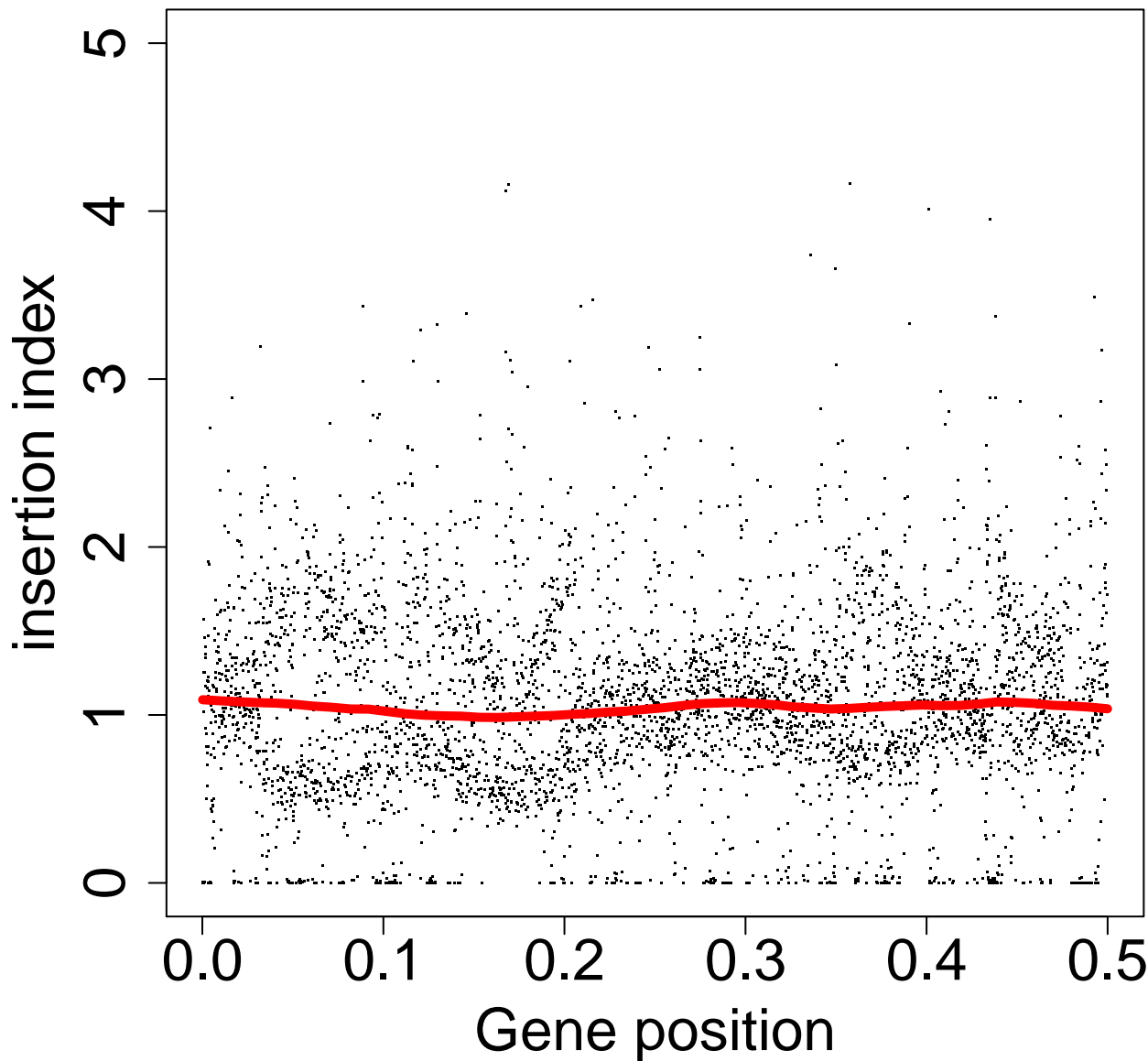
GC bias – Enterobacter



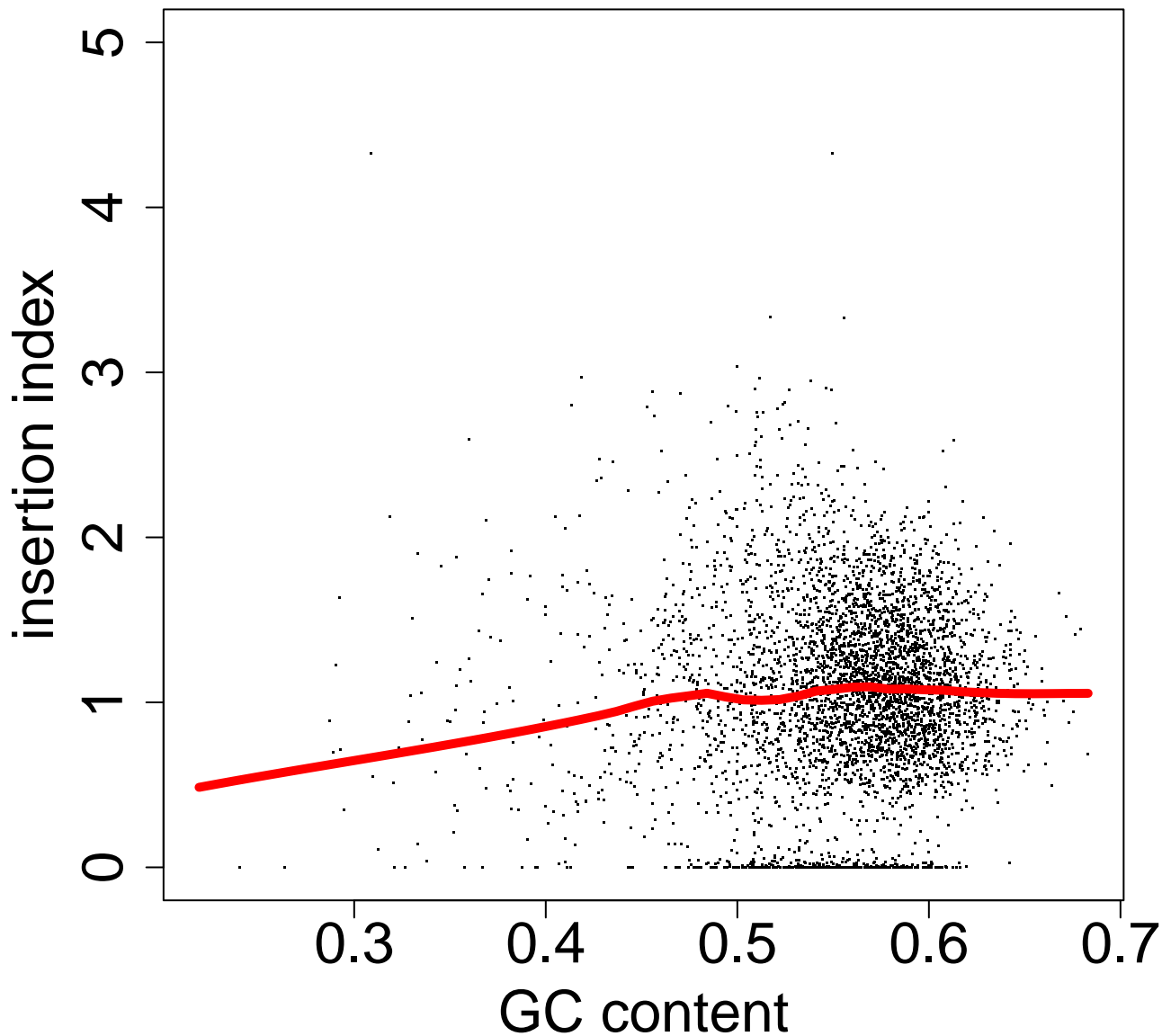
GC bias without essential genes – Enterobac



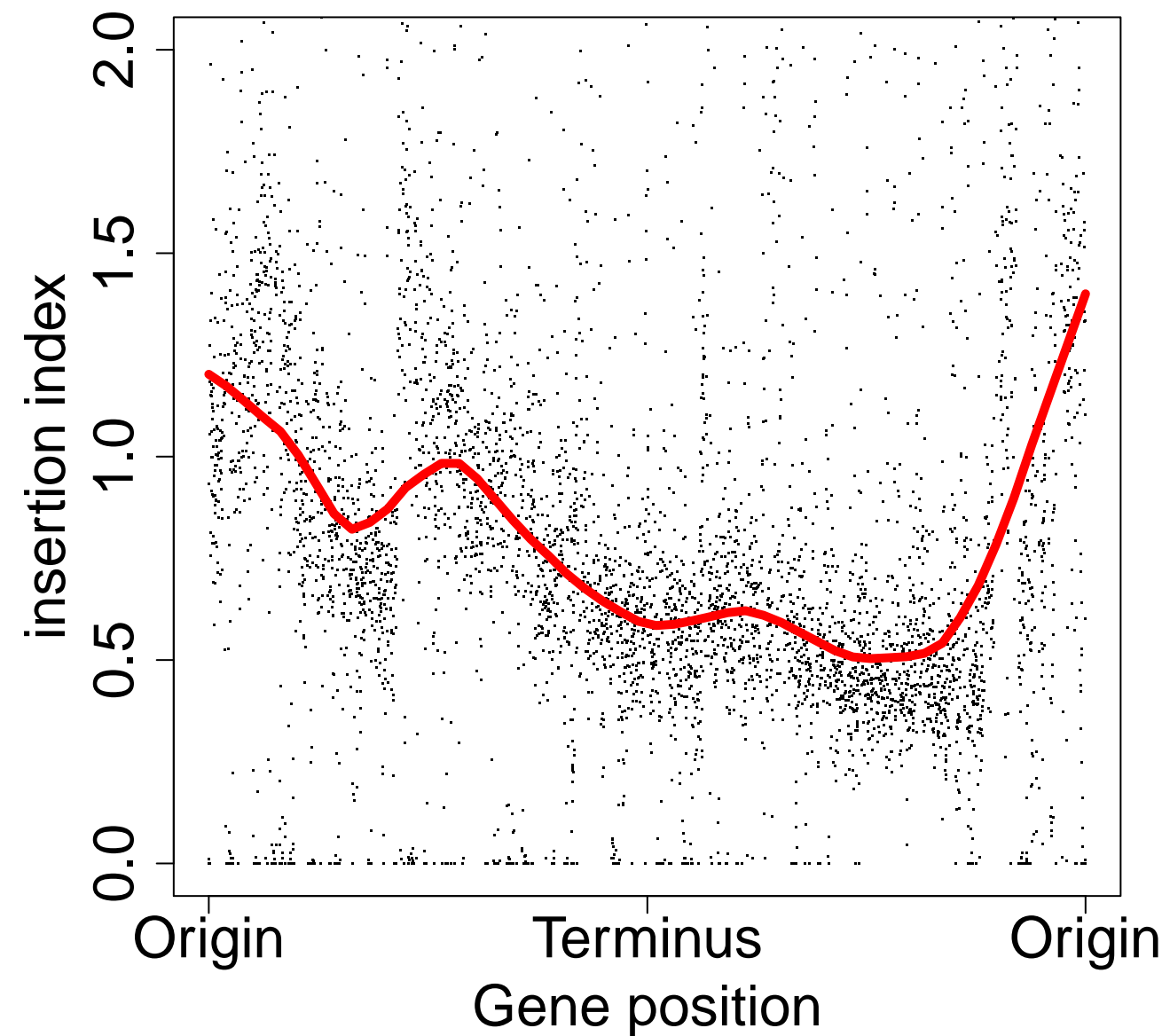
Enterobacter – normalised distance



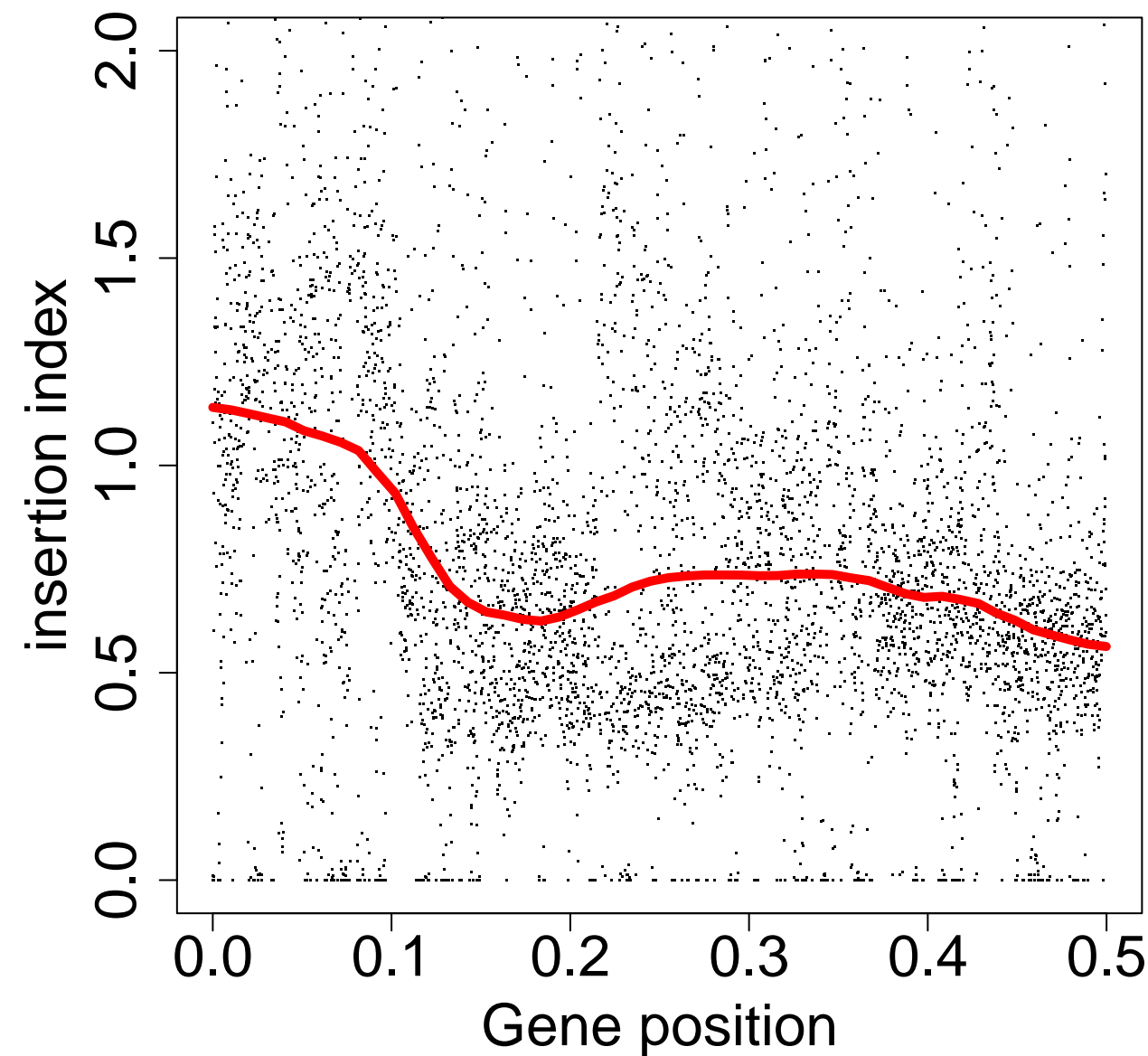
Enterobacter – normalised GC



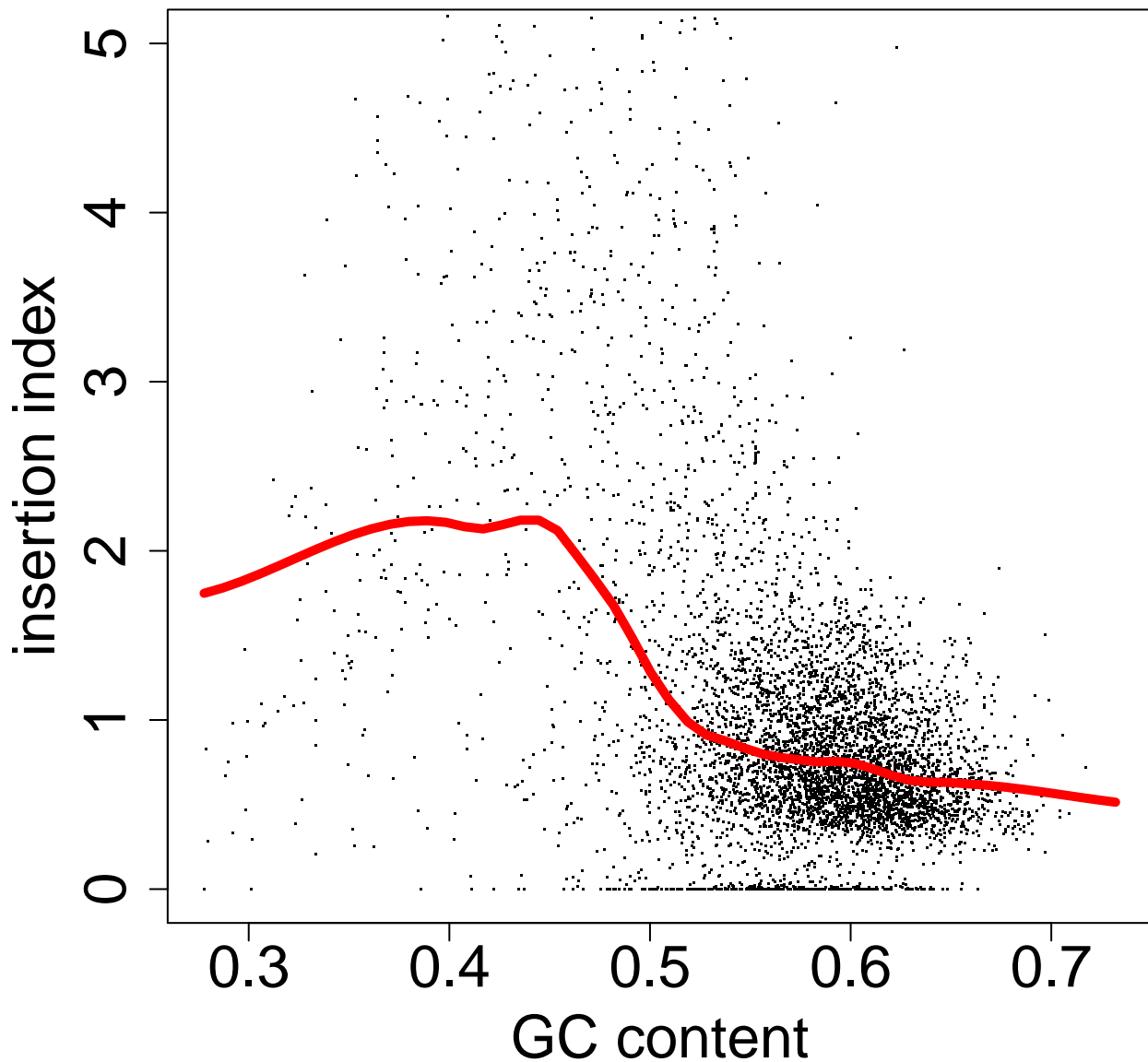
Distance bias – *Klebsiella pneumoniae* RH20



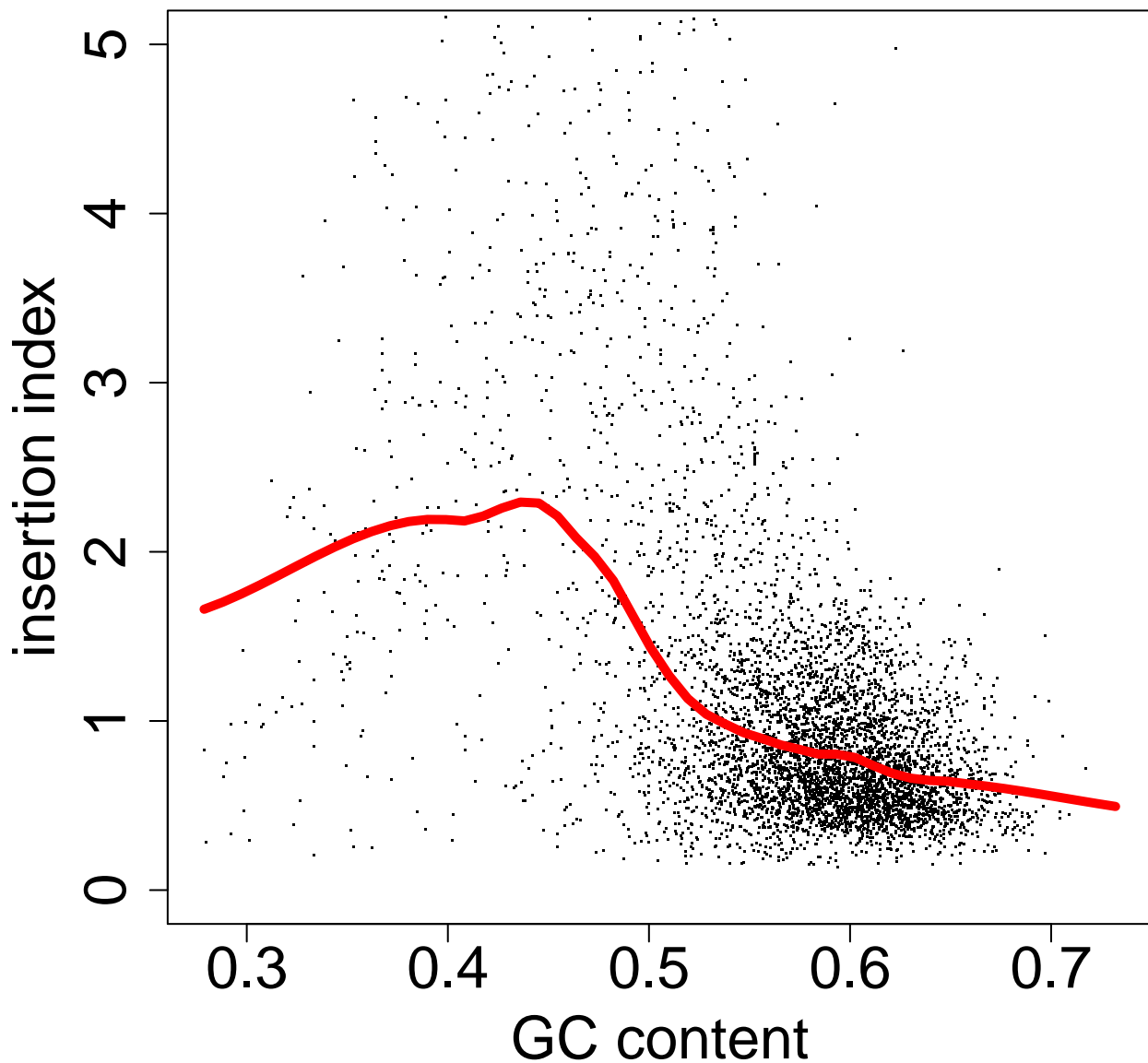
Distance bias – *Klebsiella pneumoniae* RH20



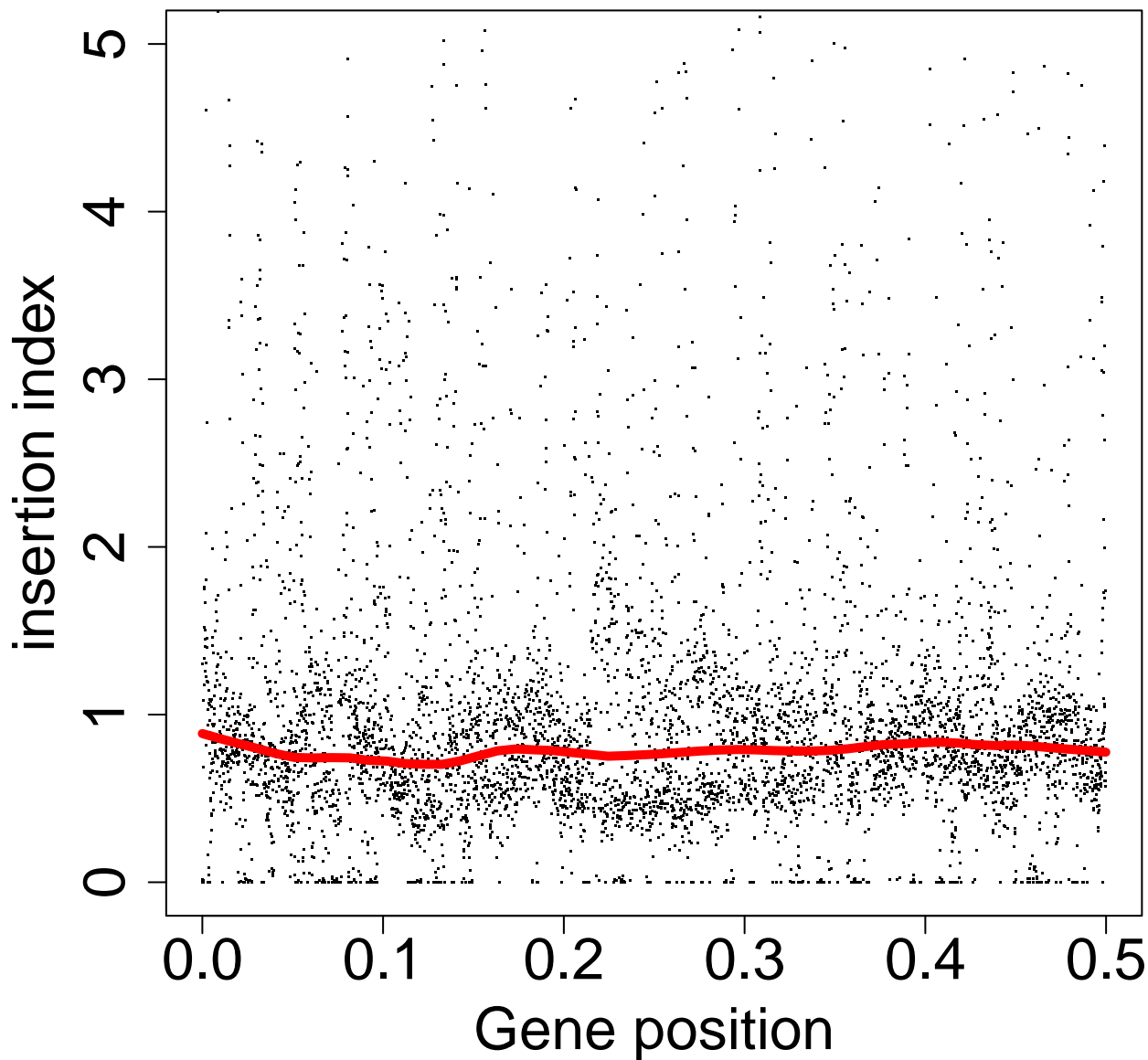
GC bias – *Klebsiella pneumoniae* RH20120



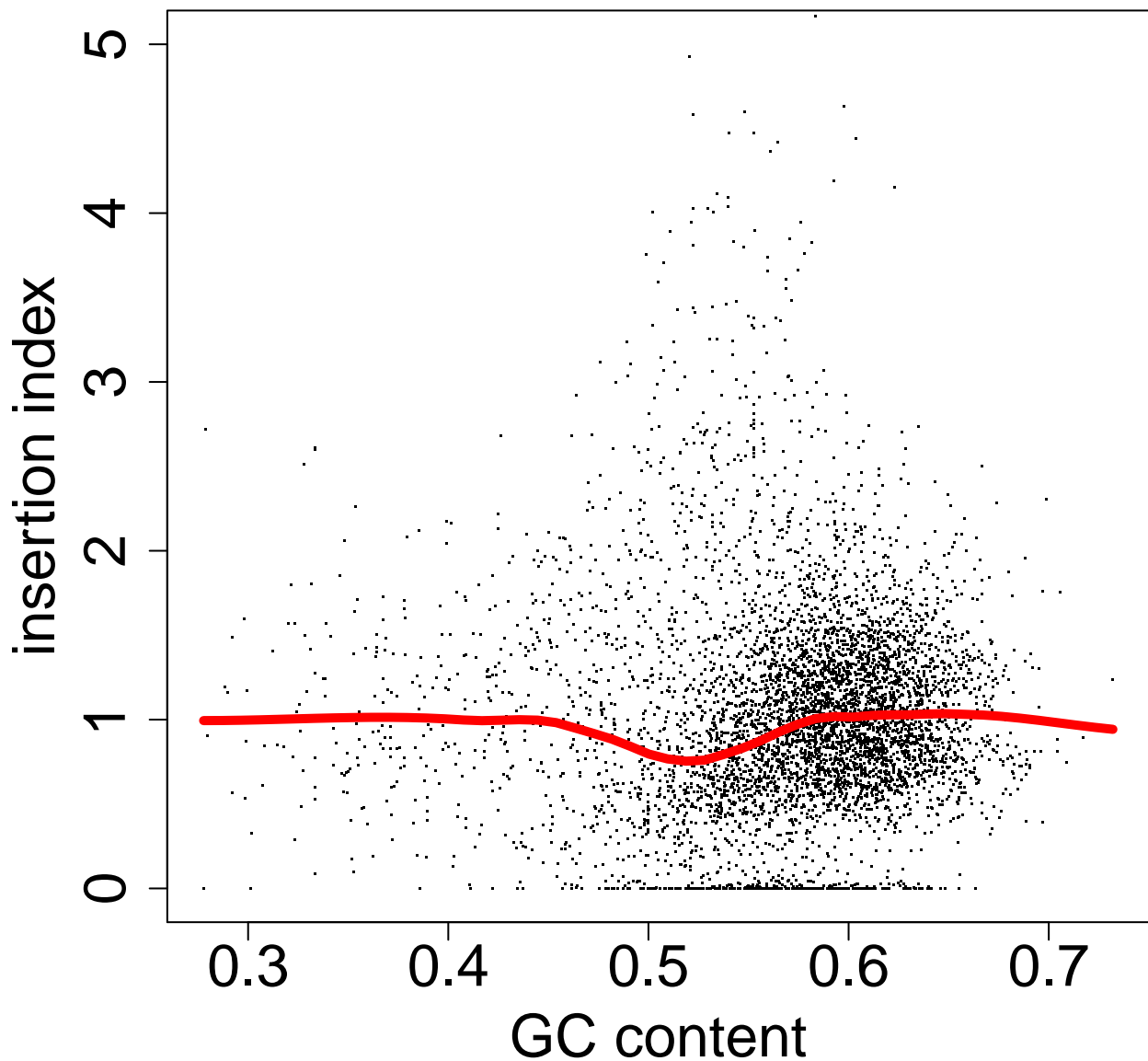
without essential genes – *Klebsiella pneumoniae*



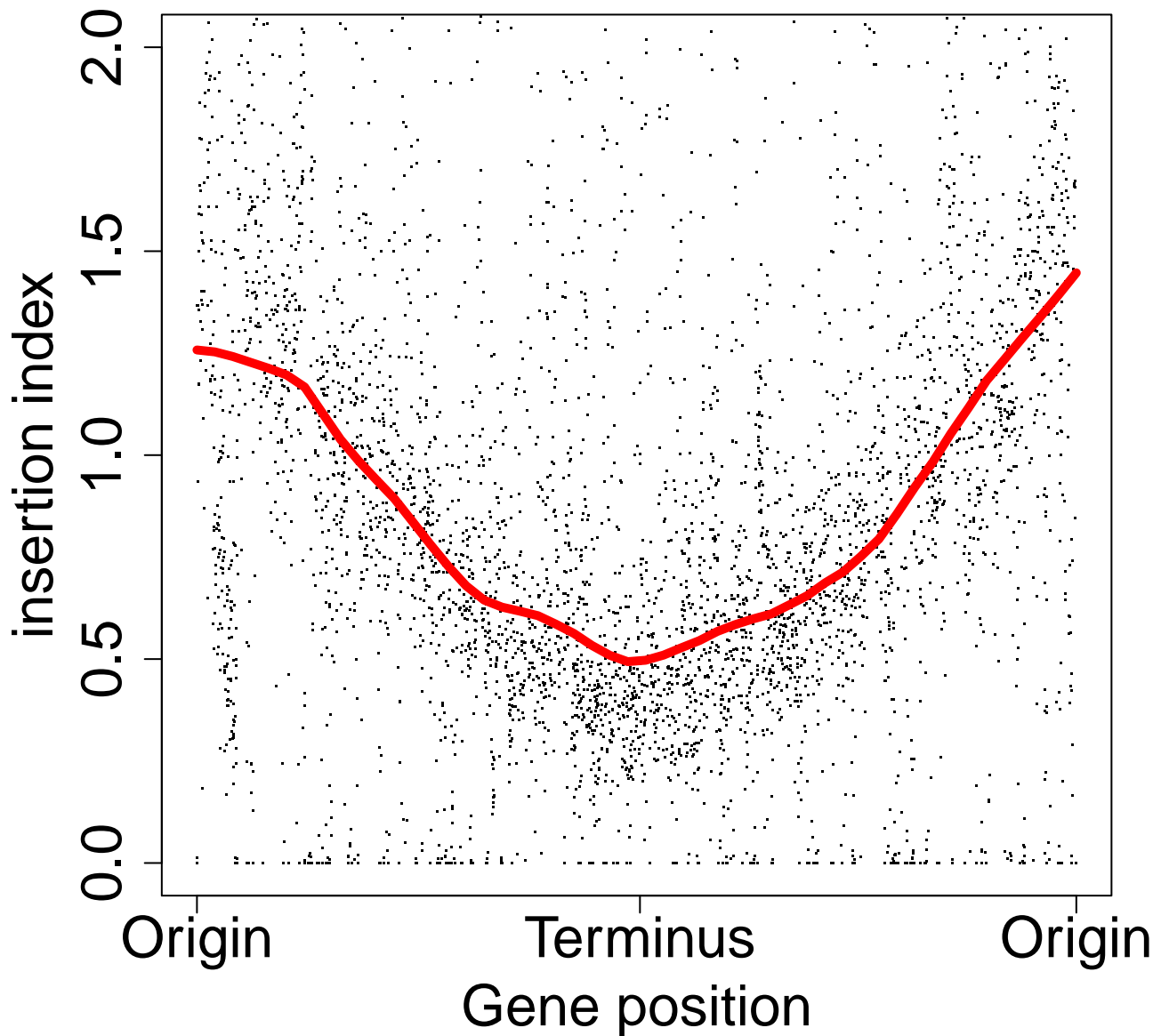
Streptococcus pneumoniae RH201207 – normalised c



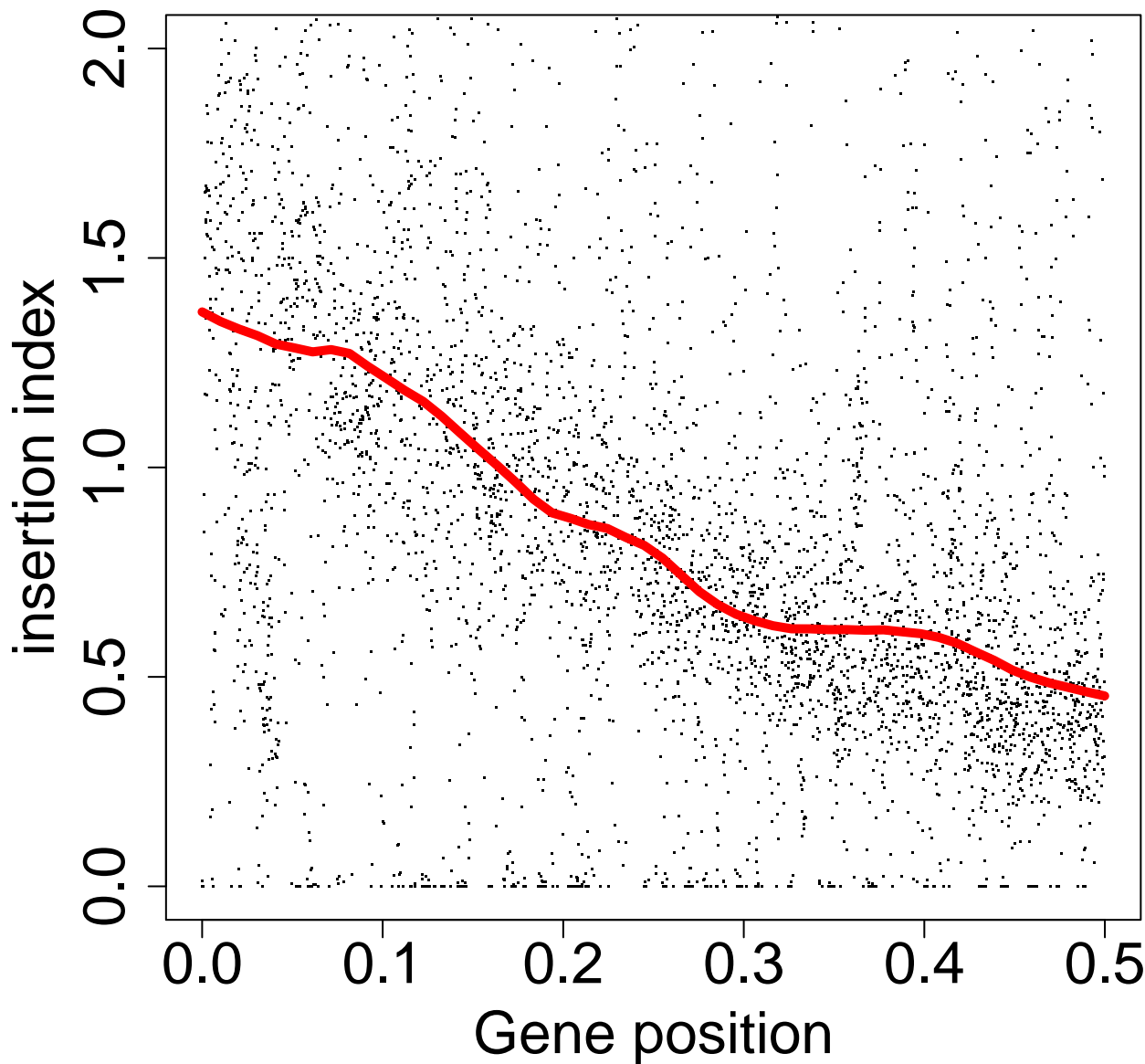
lebsiella pneumoniae RH201207 – normalise



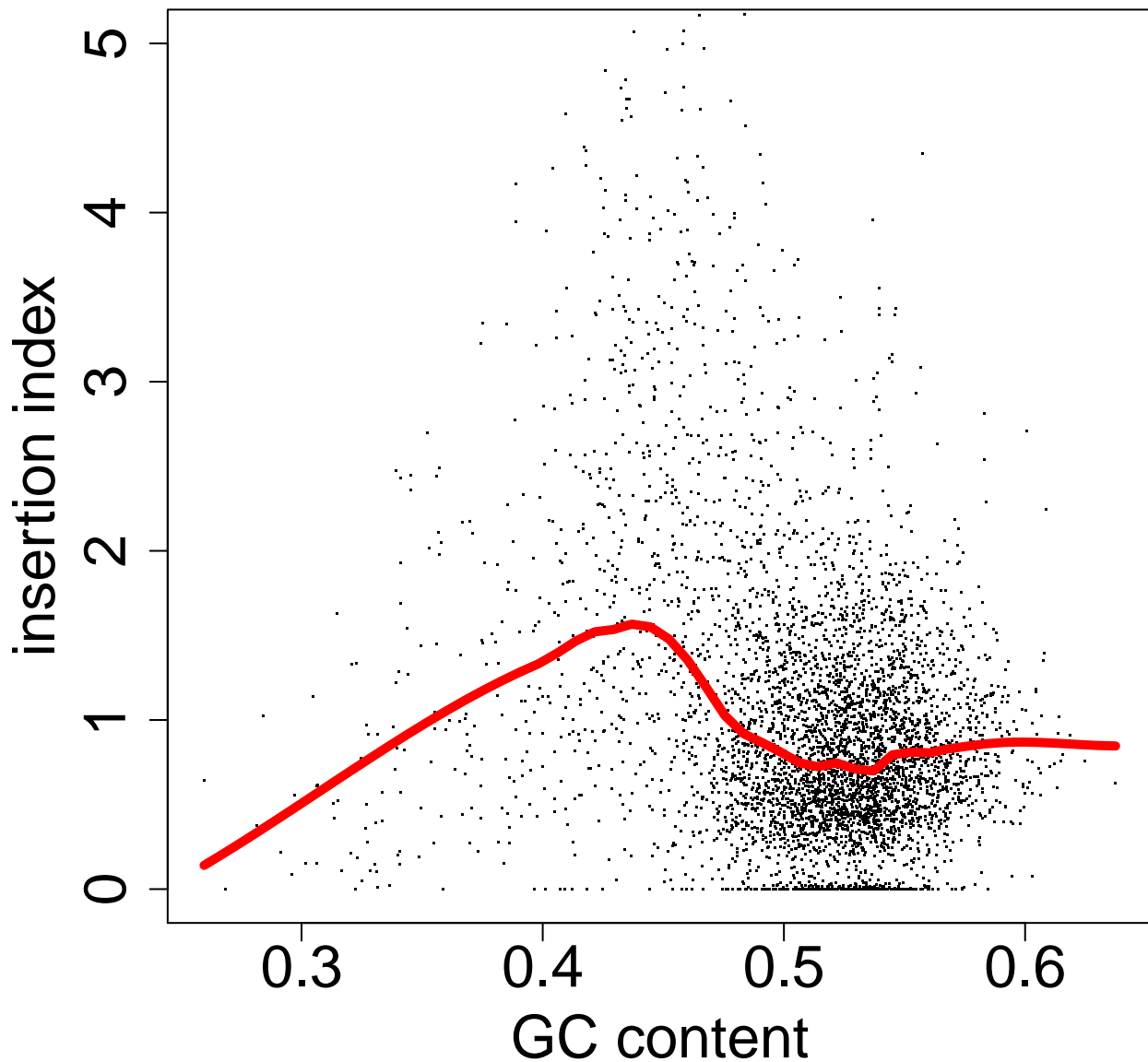
Distance bias – Escherichia coli UPEC



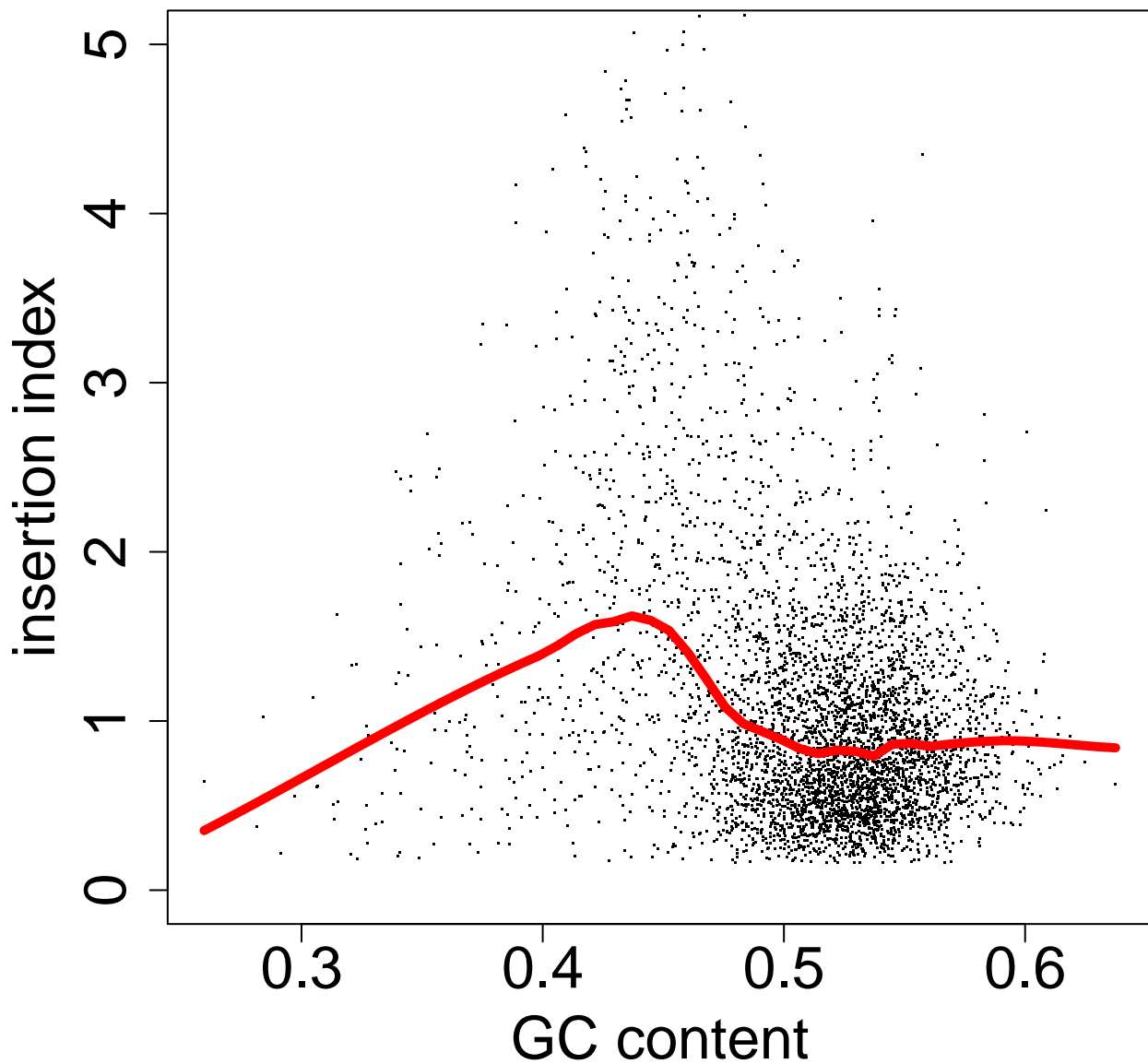
Distance bias – Escherichia coli UPEC



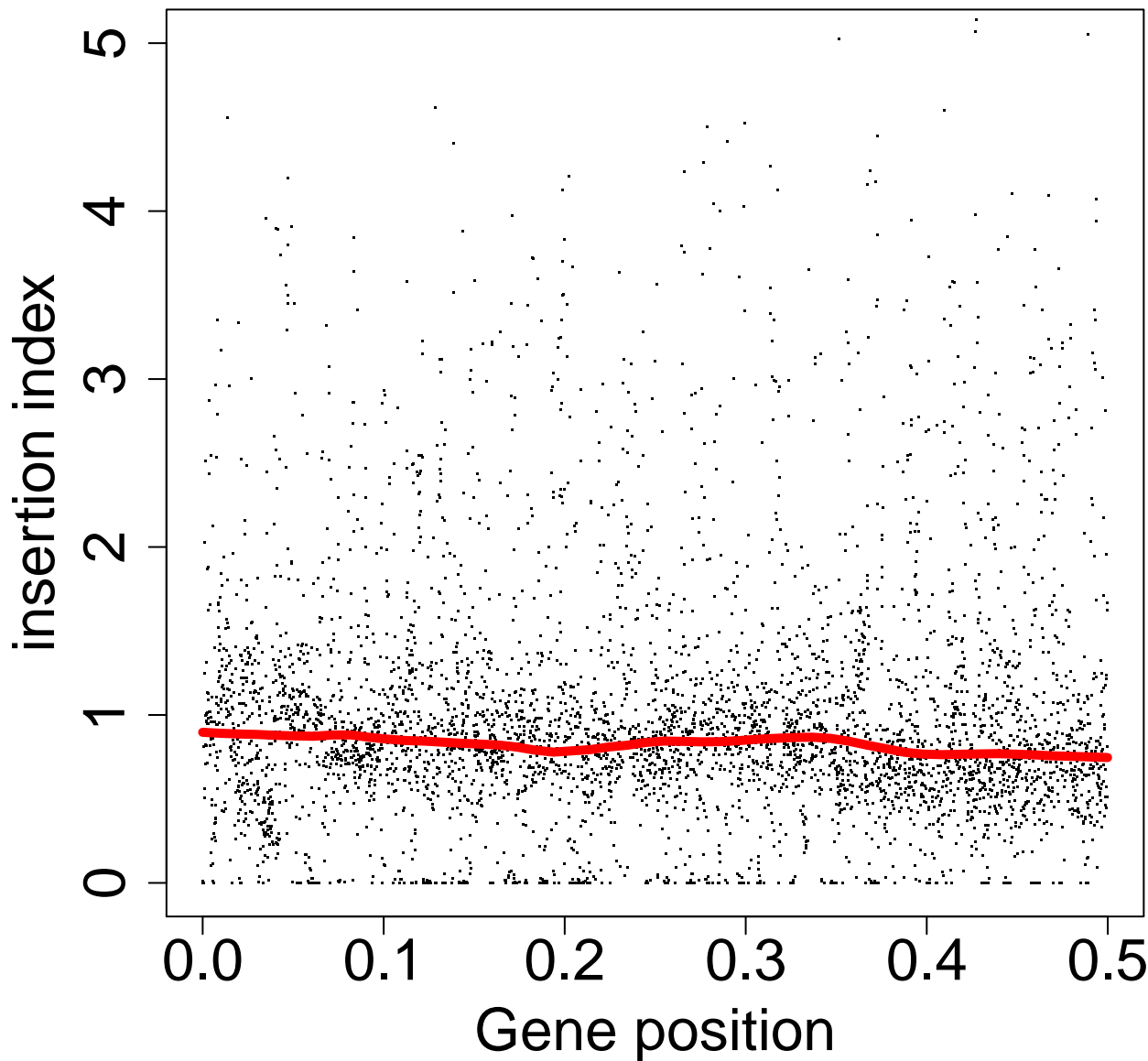
GC bias – *Escherichia coli* UPEC



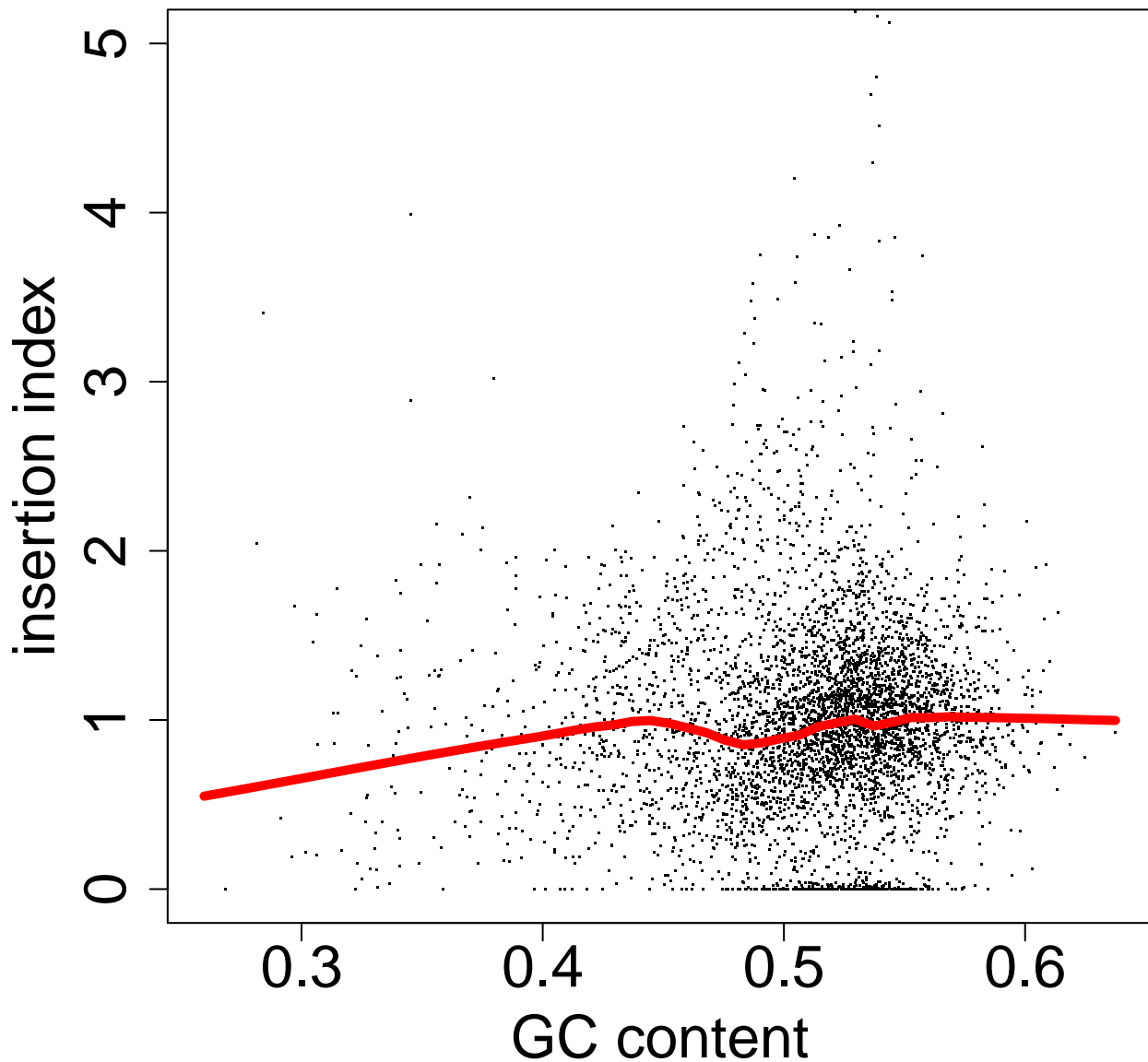
Genomes without essential genes – Escherichia coli



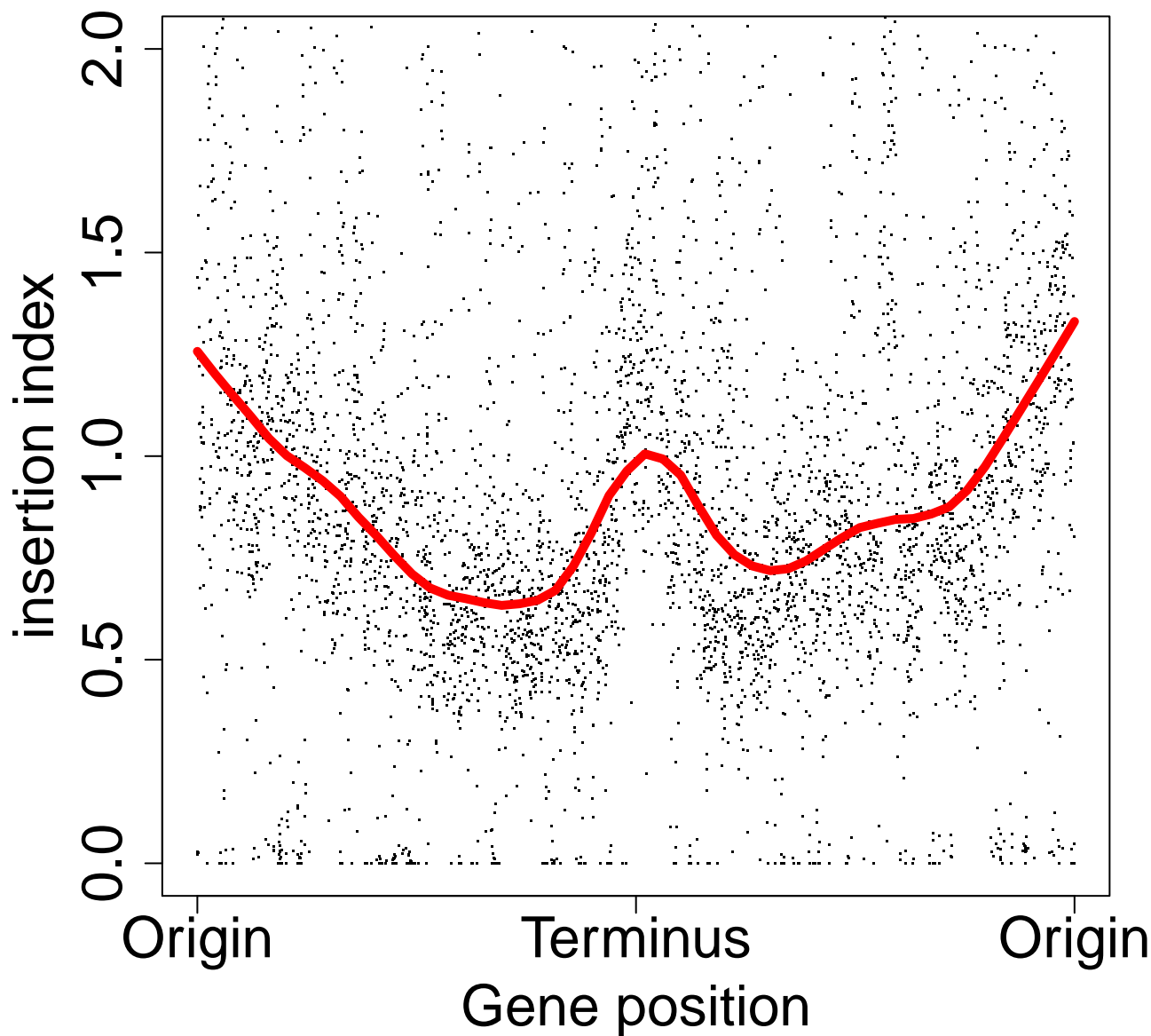
Escherichia coli UPEC – normalised distan



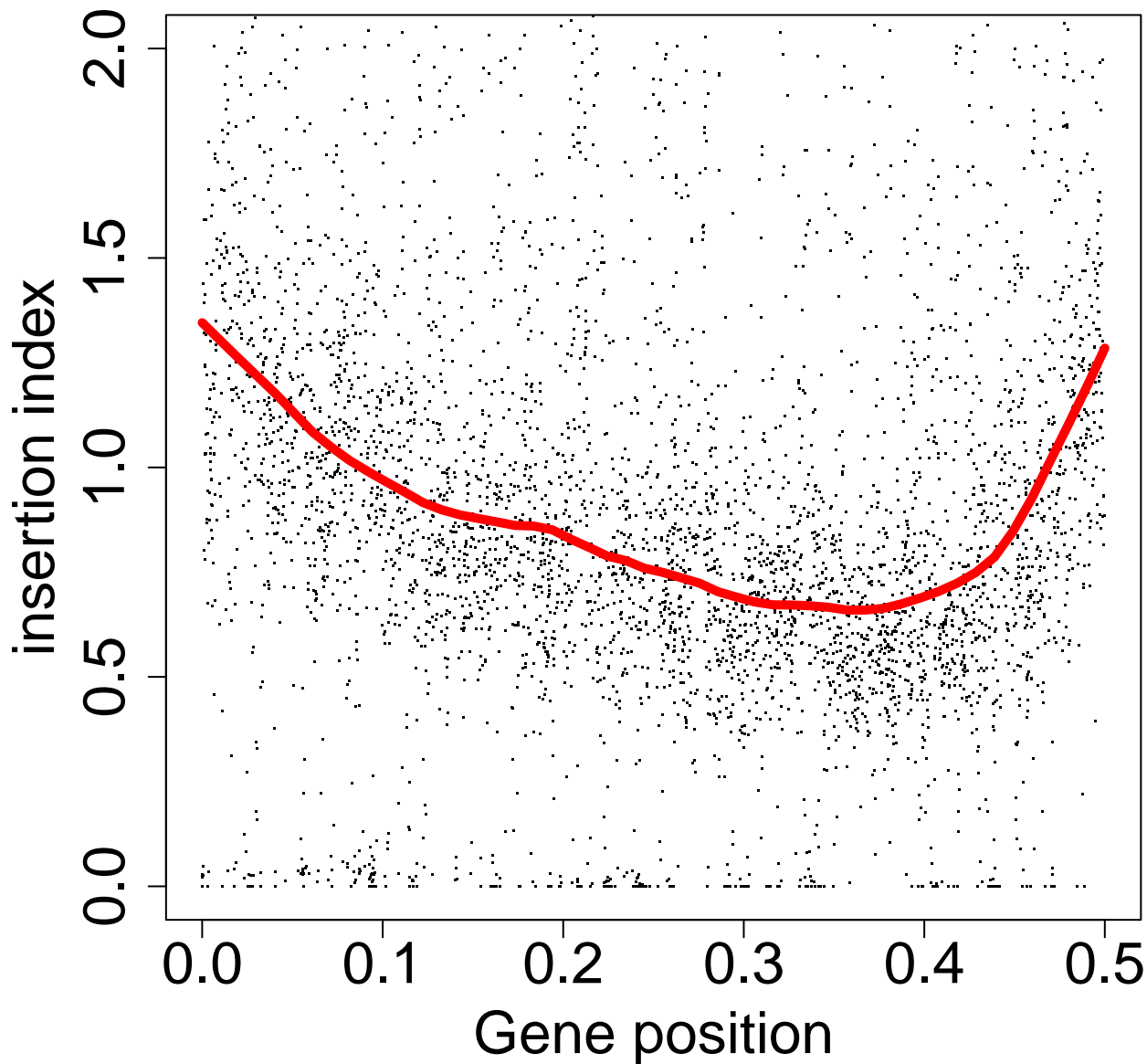
Escherichia coli UPEC – normalised GC



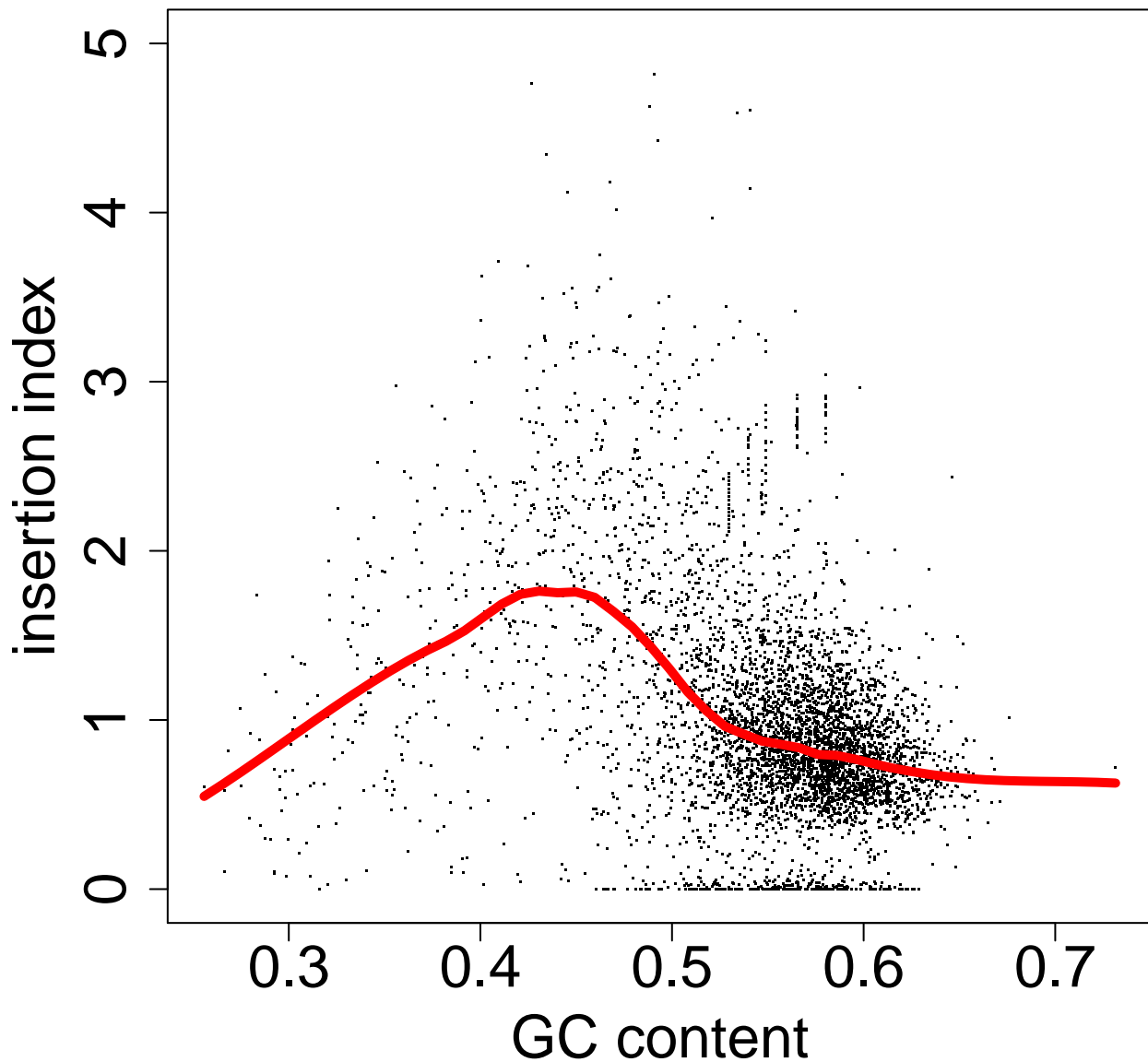
Distance bias – Citrobacter



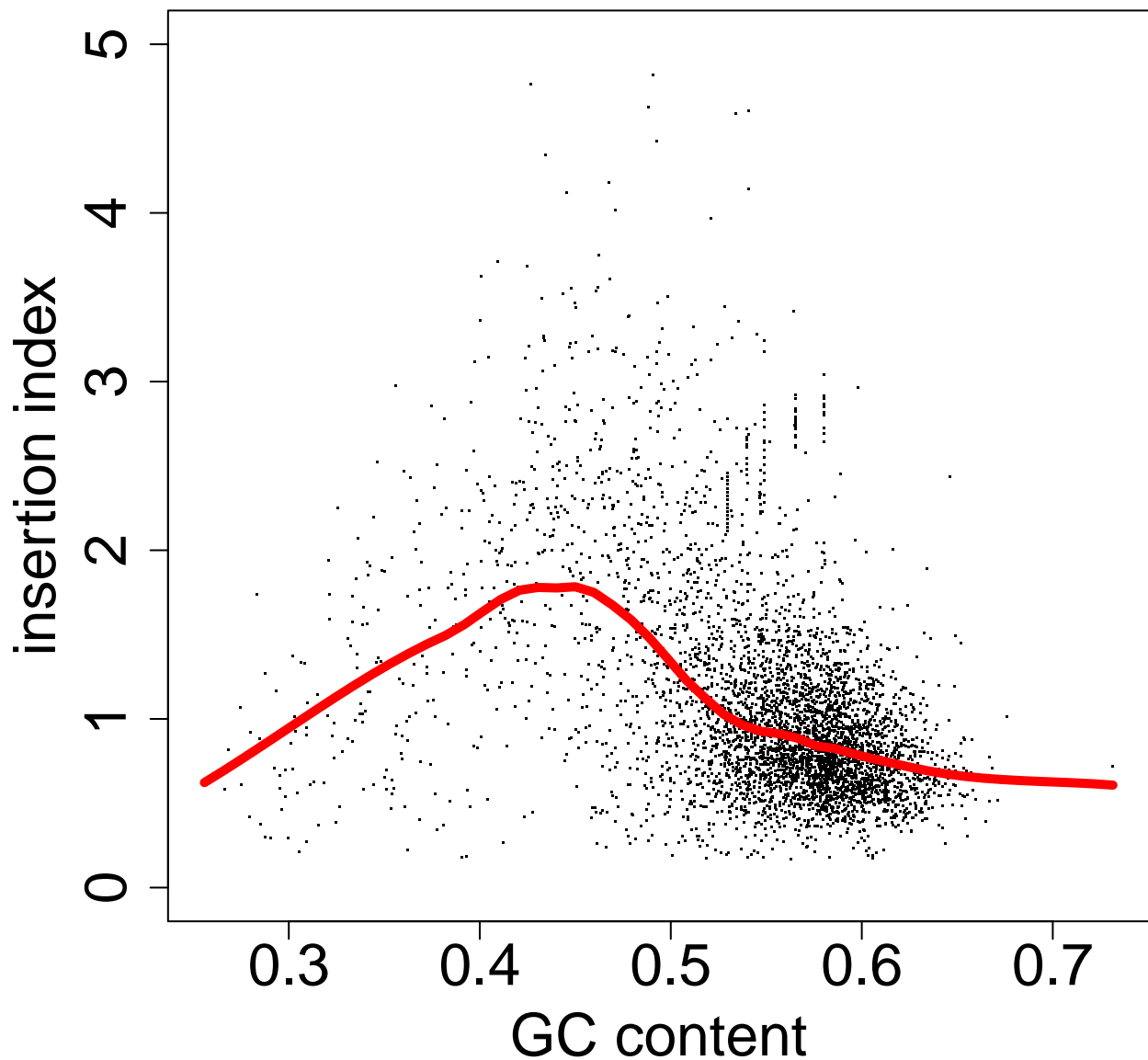
Distance bias – Citrobacter



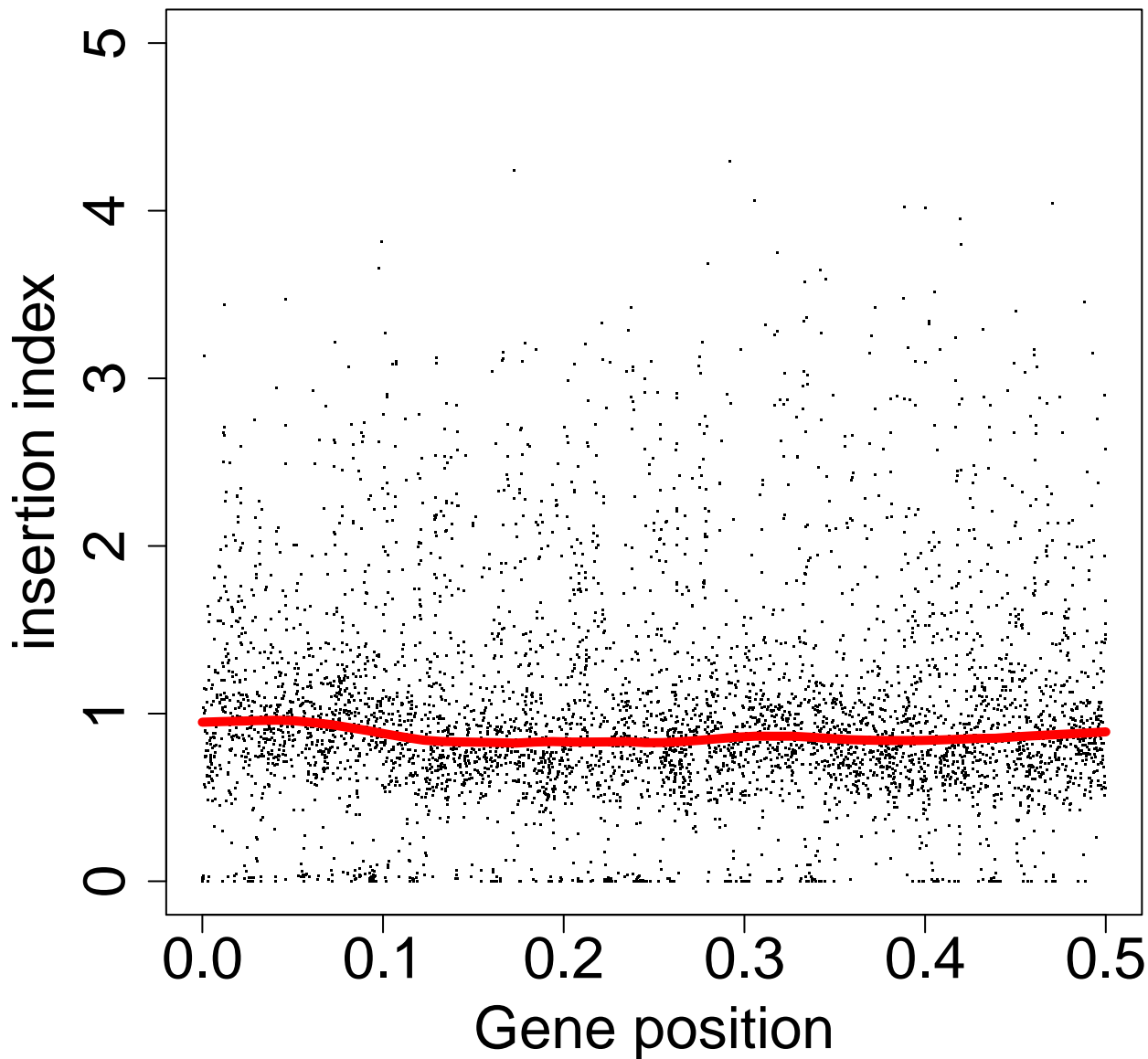
GC bias – *Citrobacter*



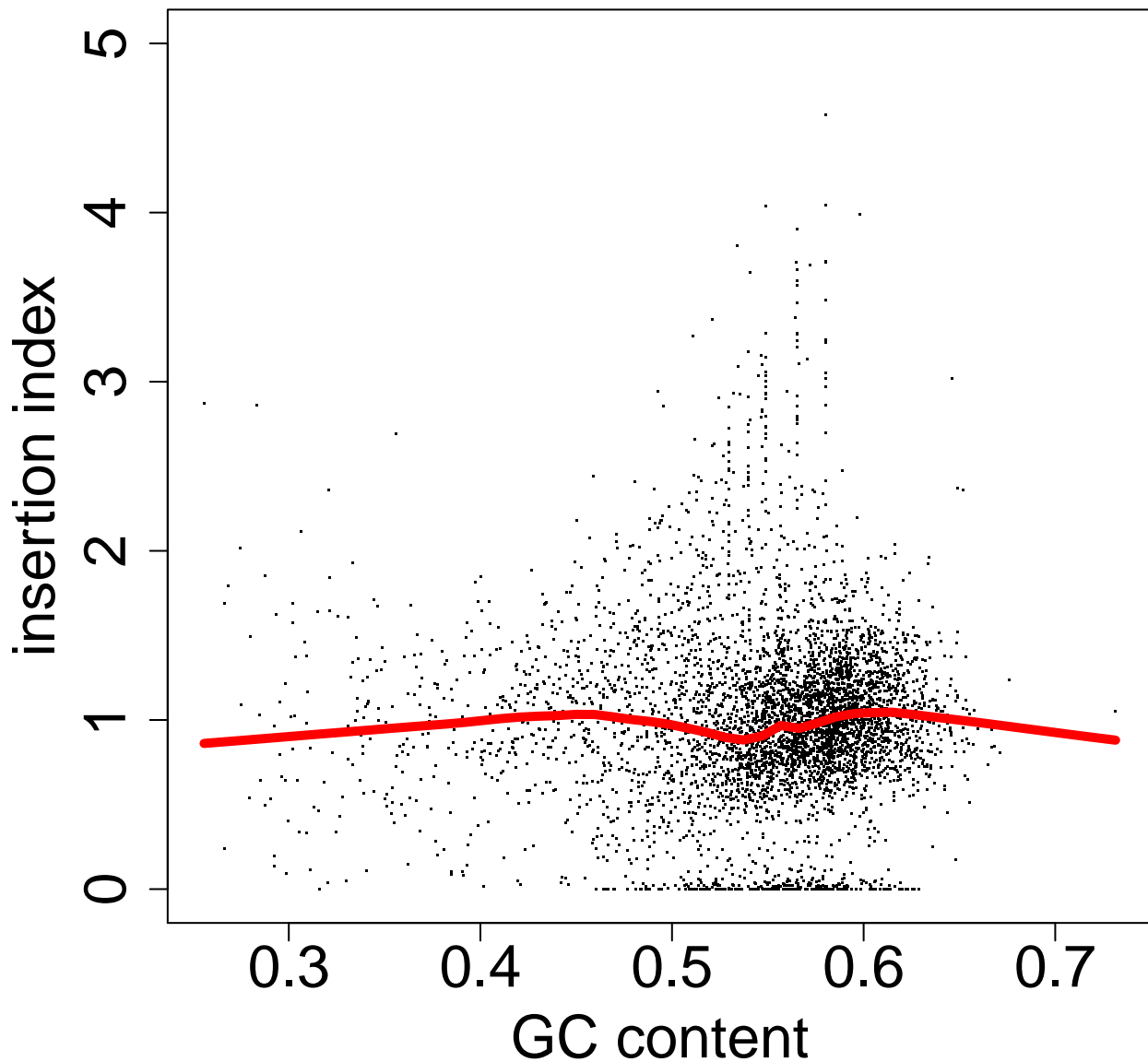
GC bias without essential genes – Citrobac



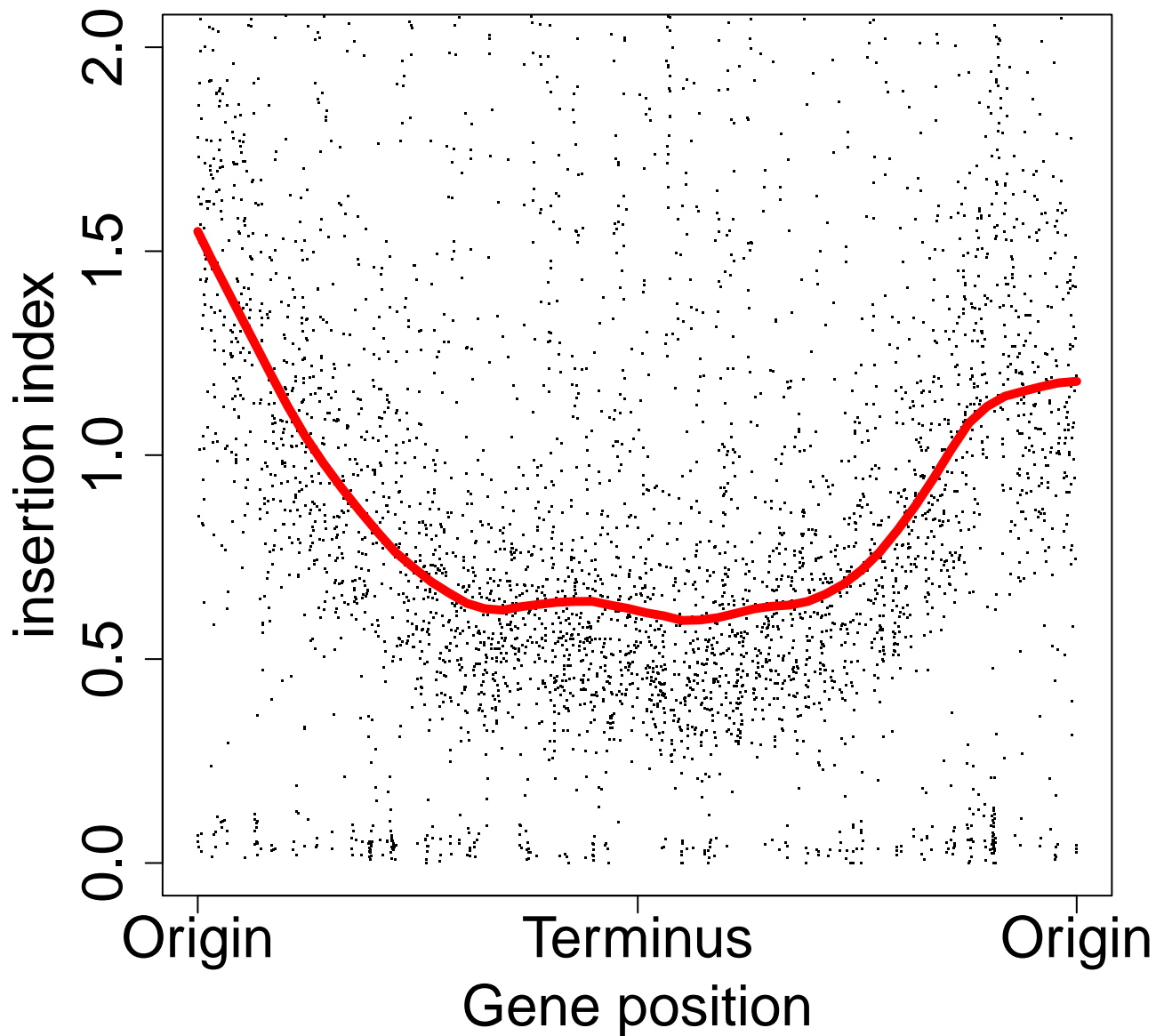
Citrobacter – normalised distance



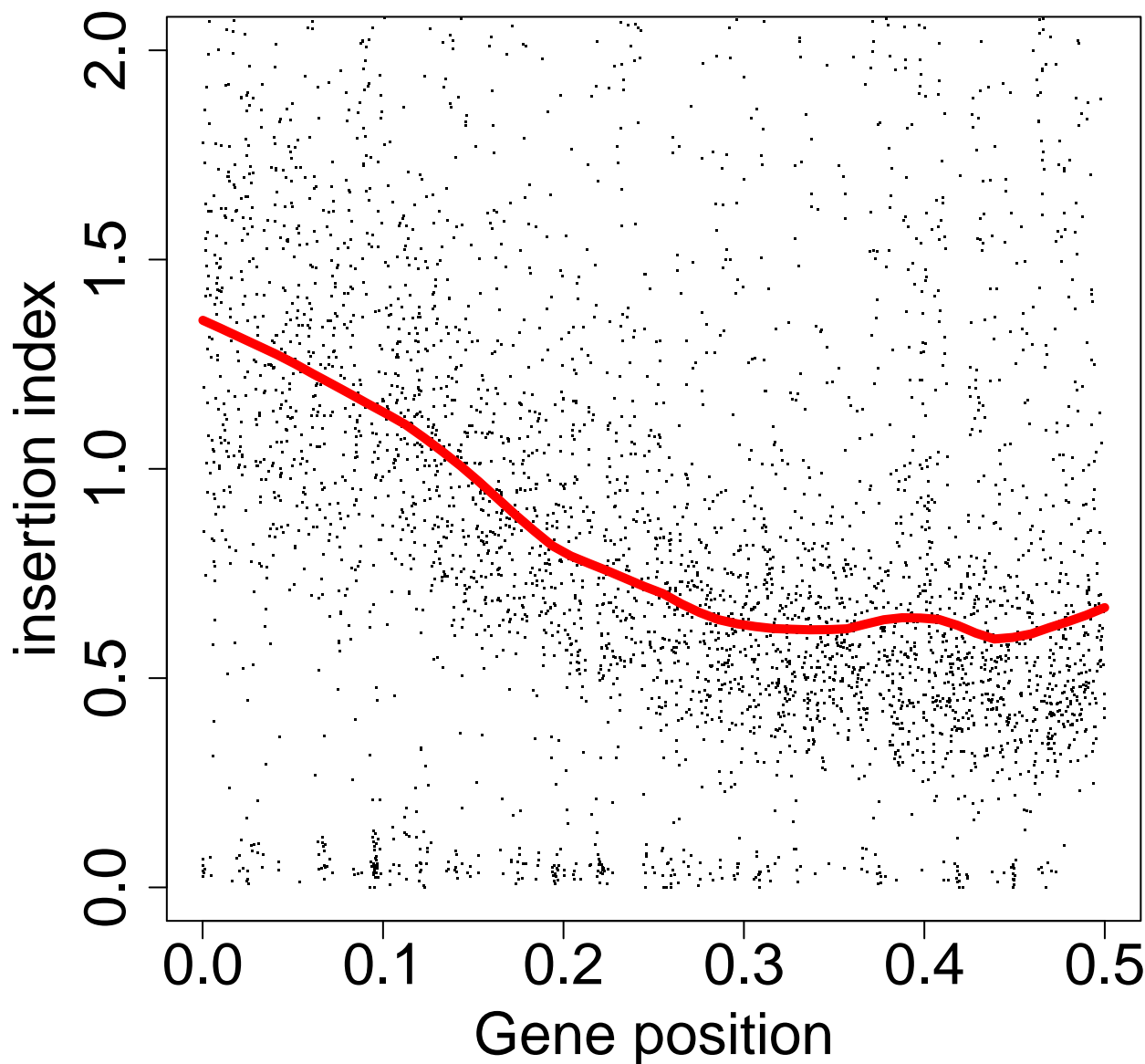
Citrobacter – normalised GC



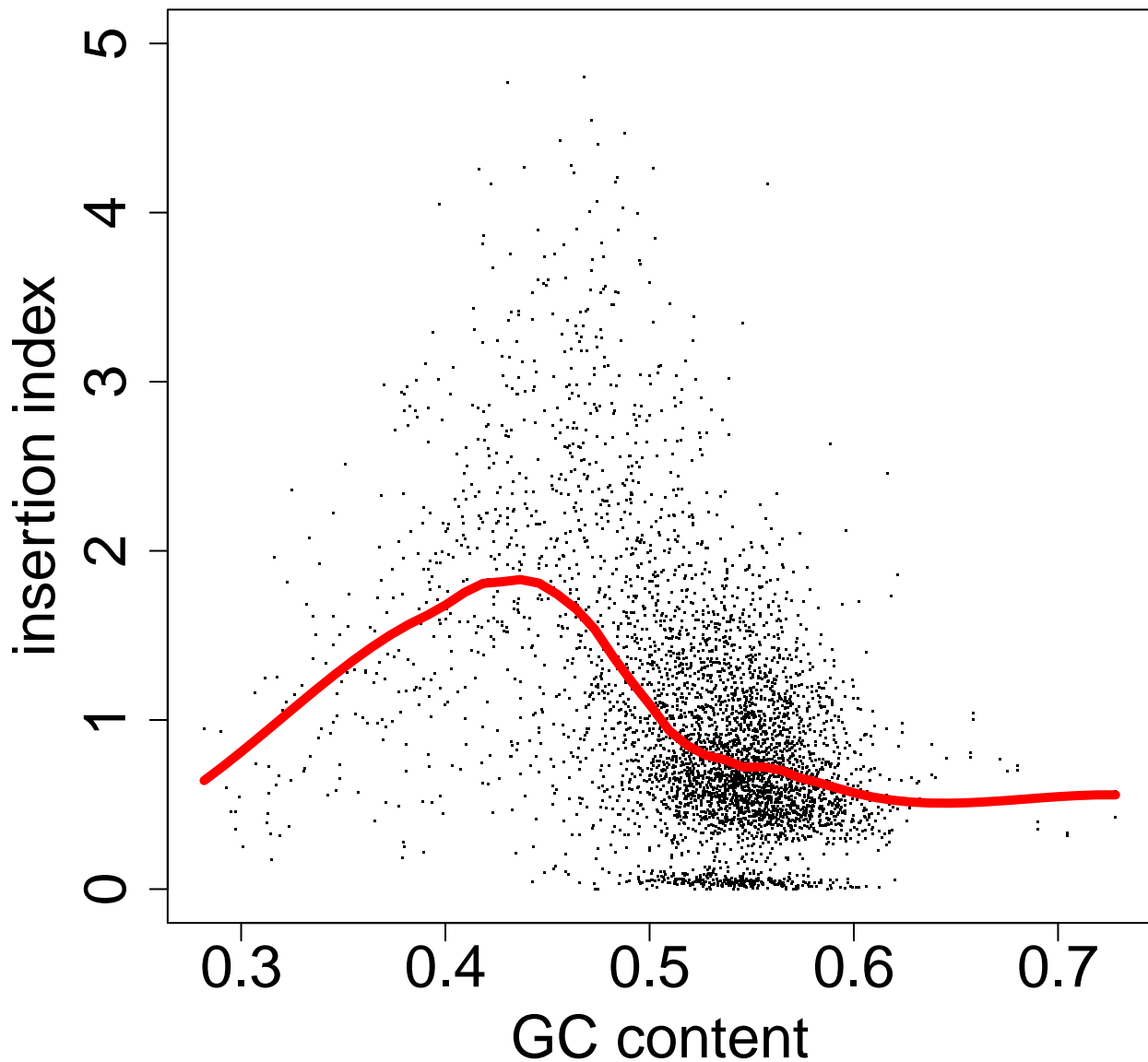
Distance bias – *Salmonella enteritidis*



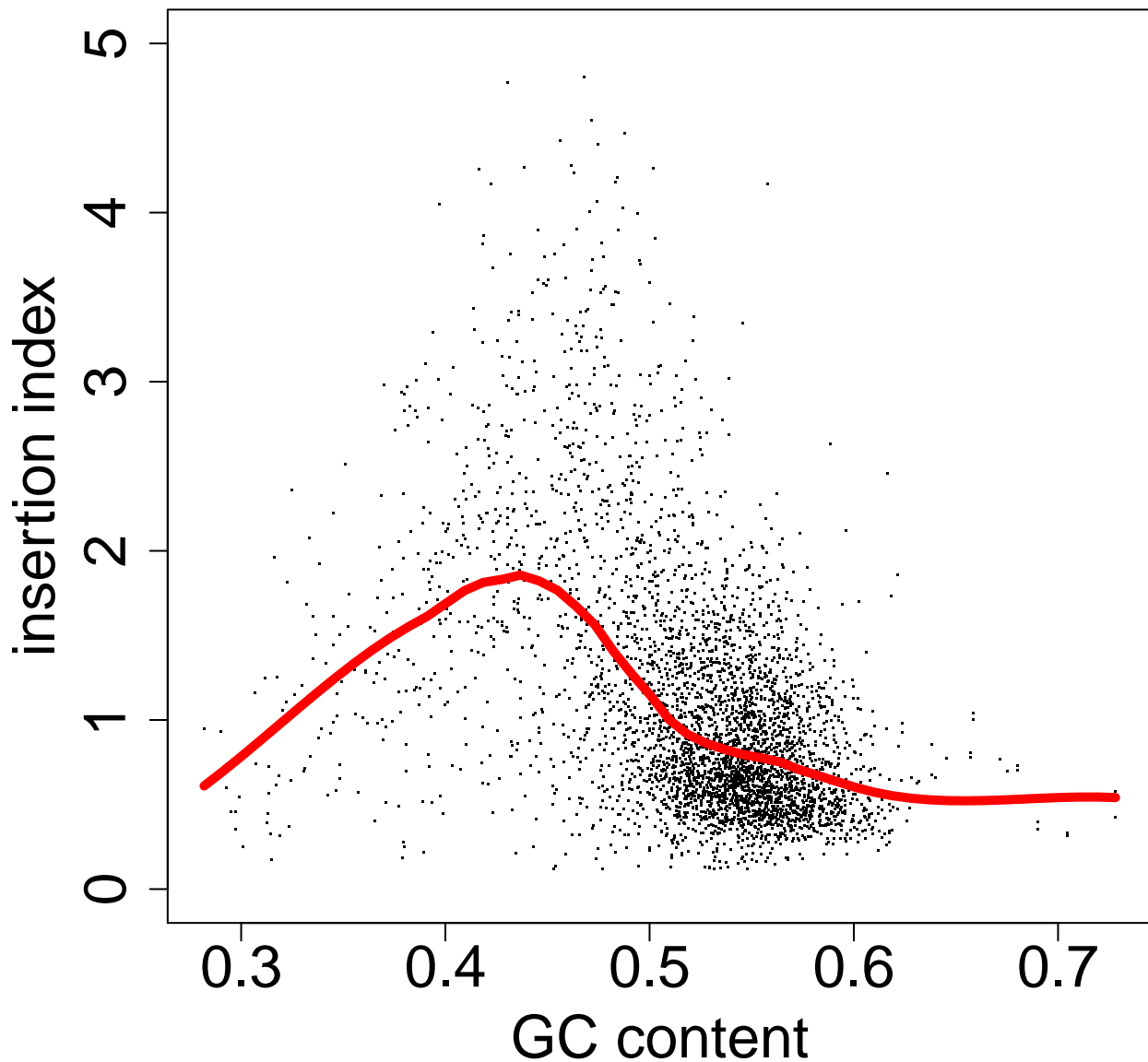
Distance bias – *Salmonella enteritidis*



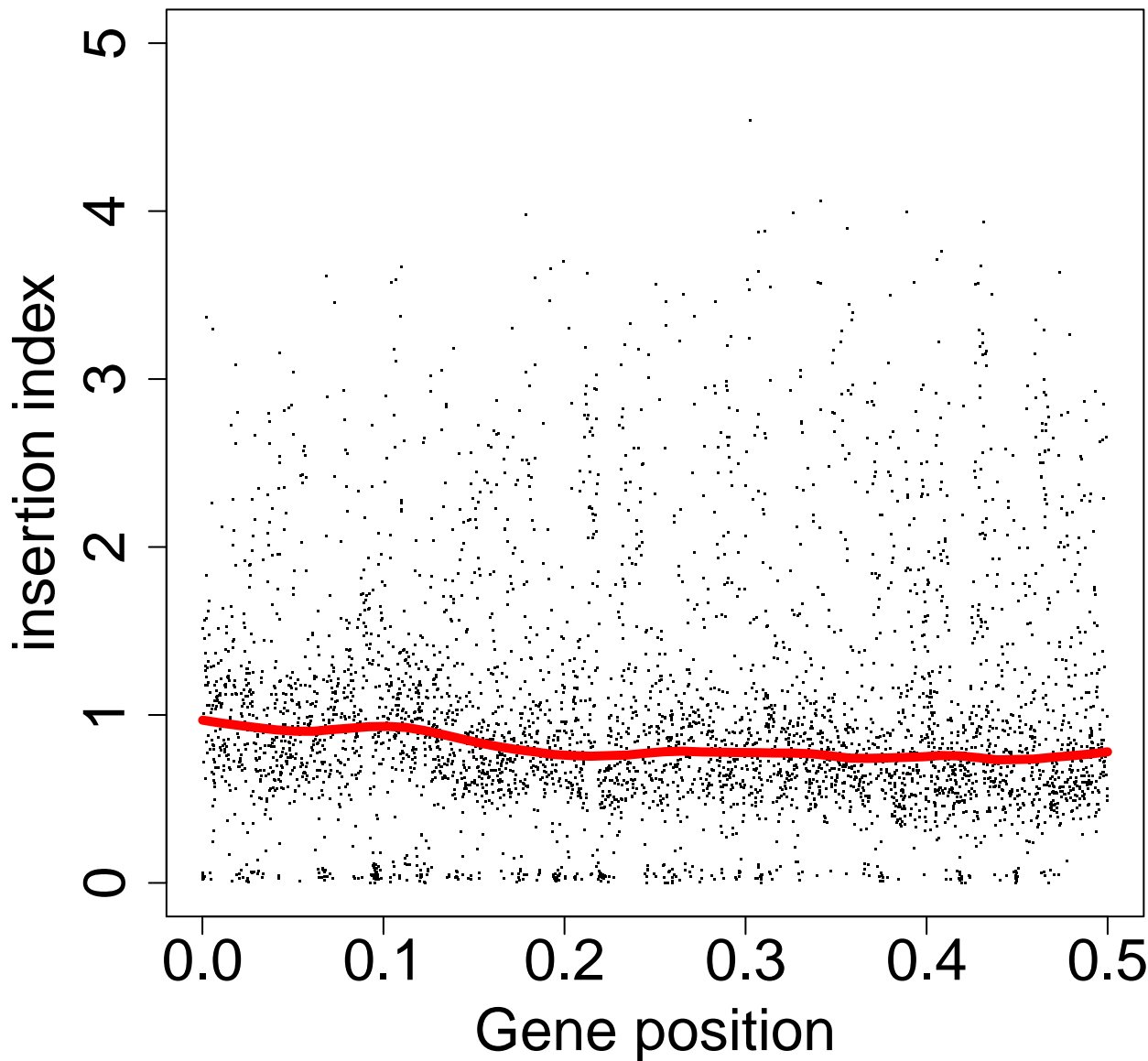
GC bias – *Salmonella enteritidis*



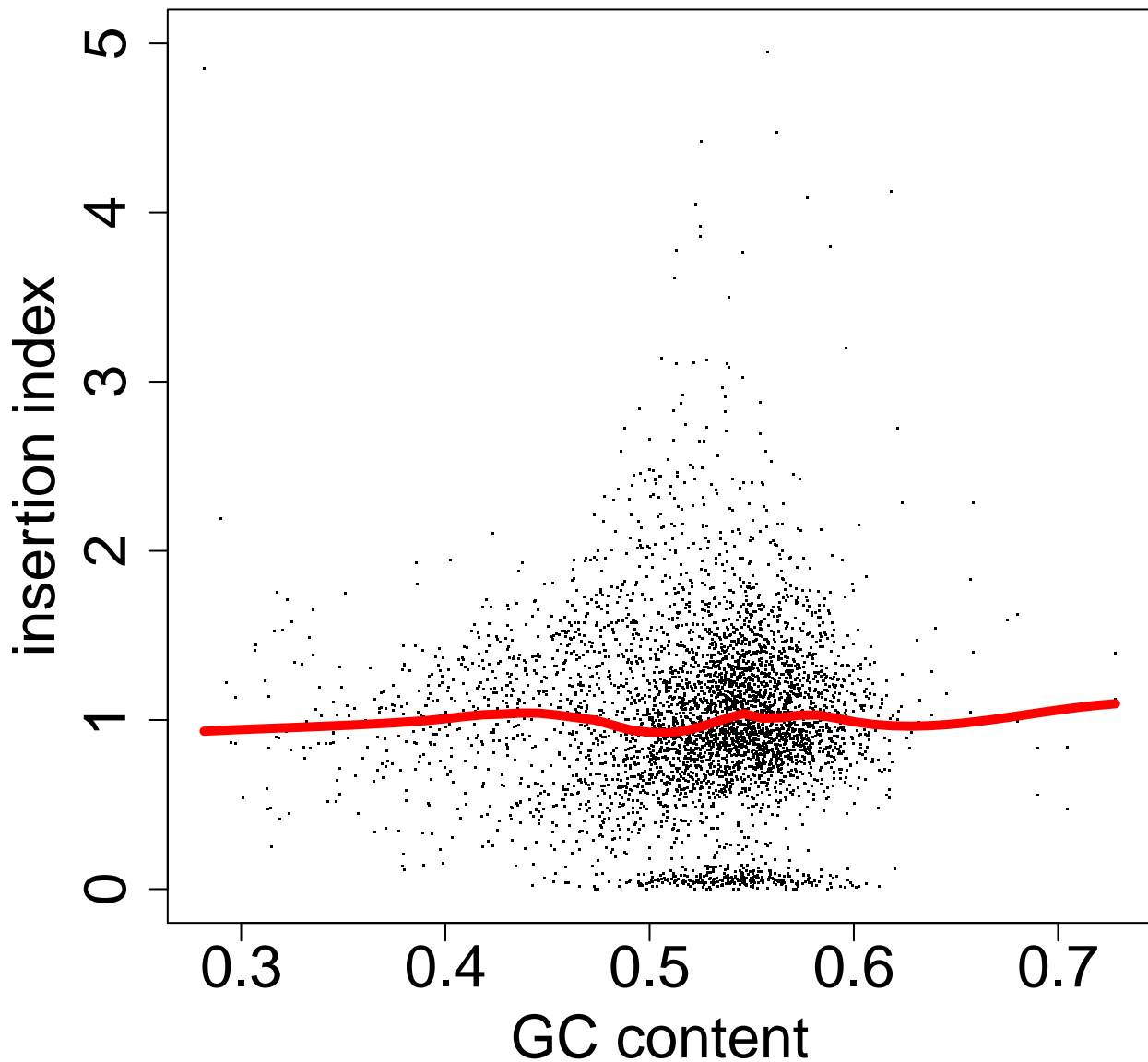
Phage insertion without essential genes – *Salmonella enterica*



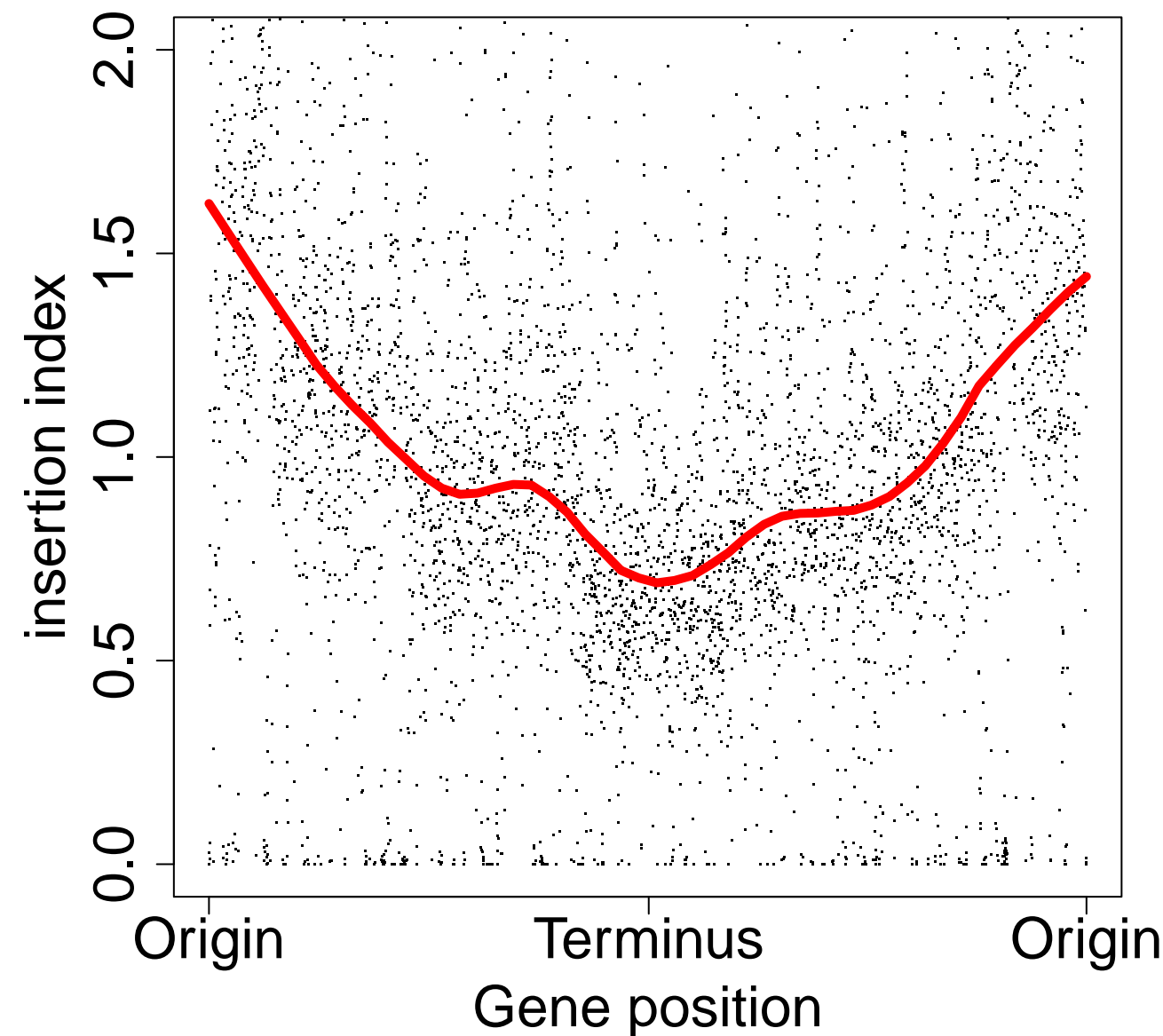
Salmonella enteritidis – normalised distance



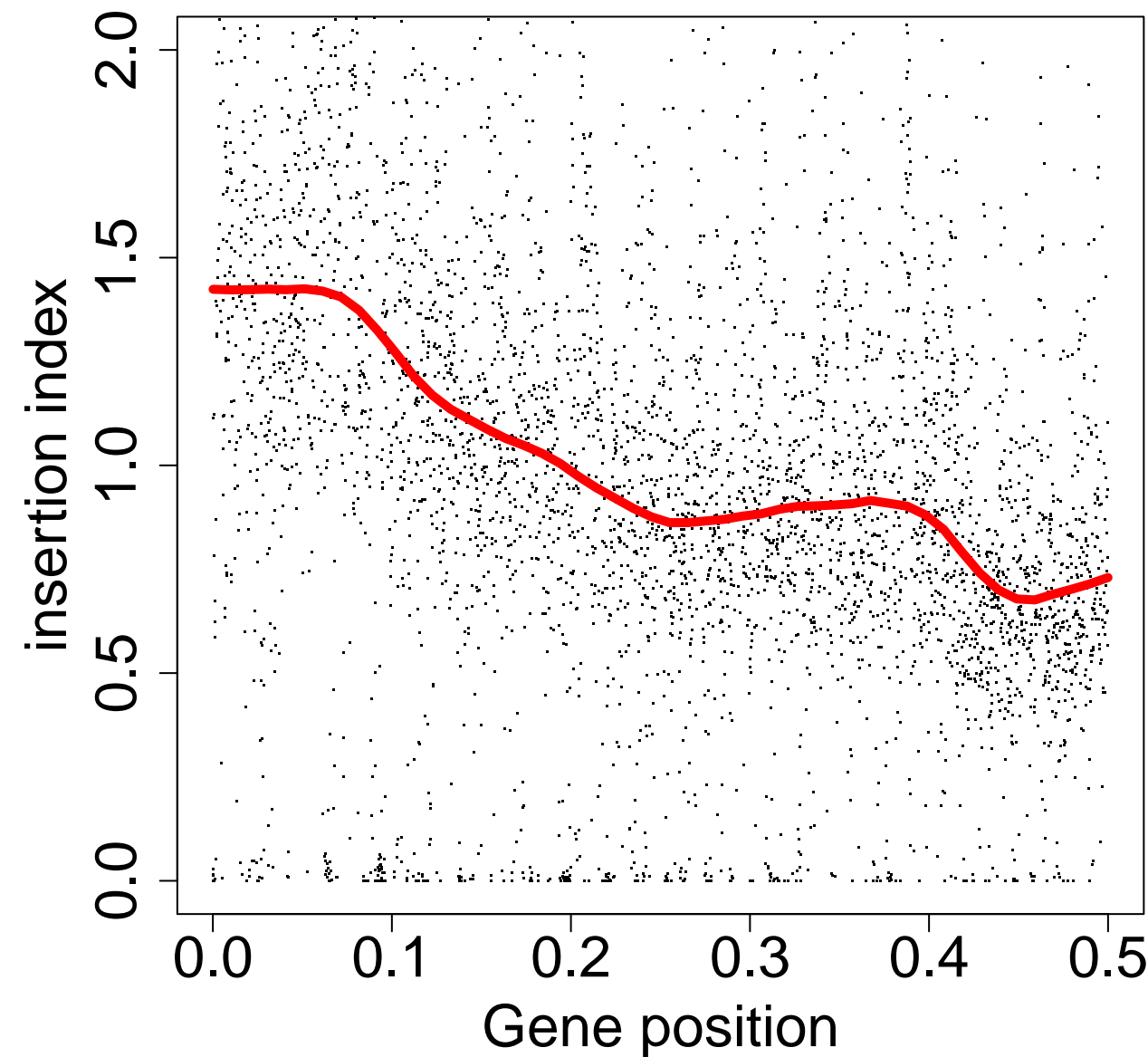
Salmonella enteritidis – normalised GC



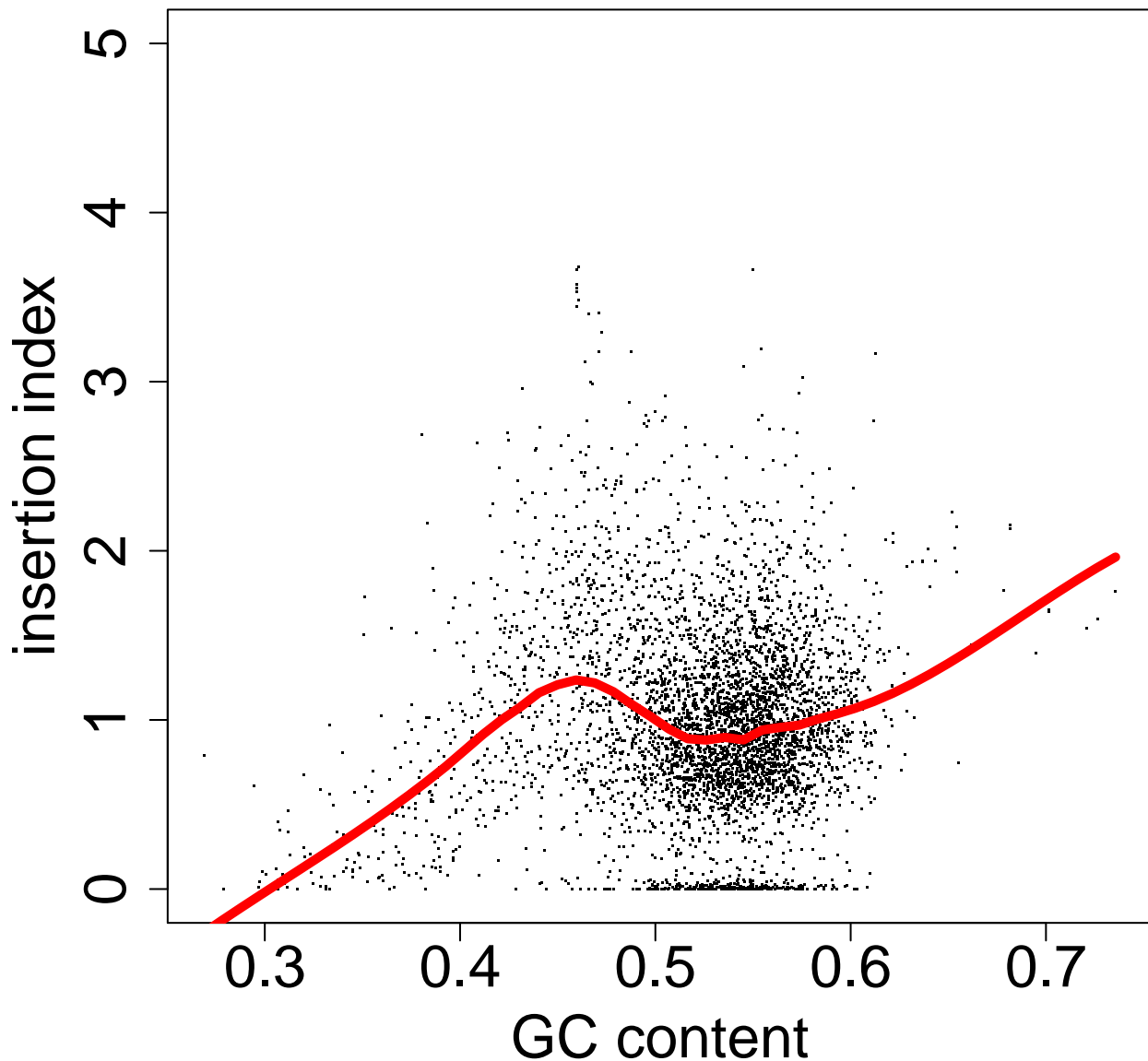
Distance bias – *Salmonella typhimurium* SL1



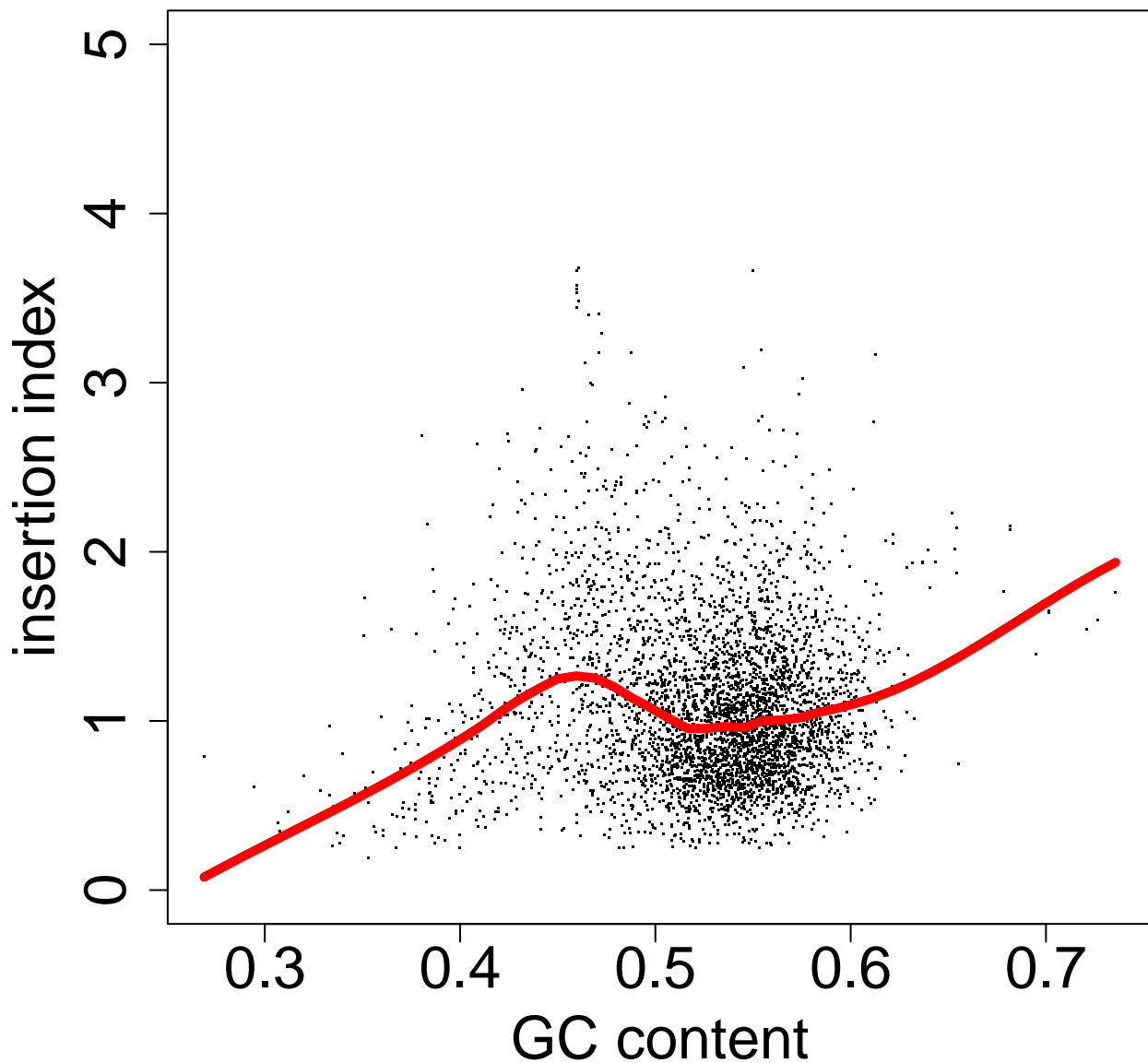
Distance bias – *Salmonella typhimurium* SL1



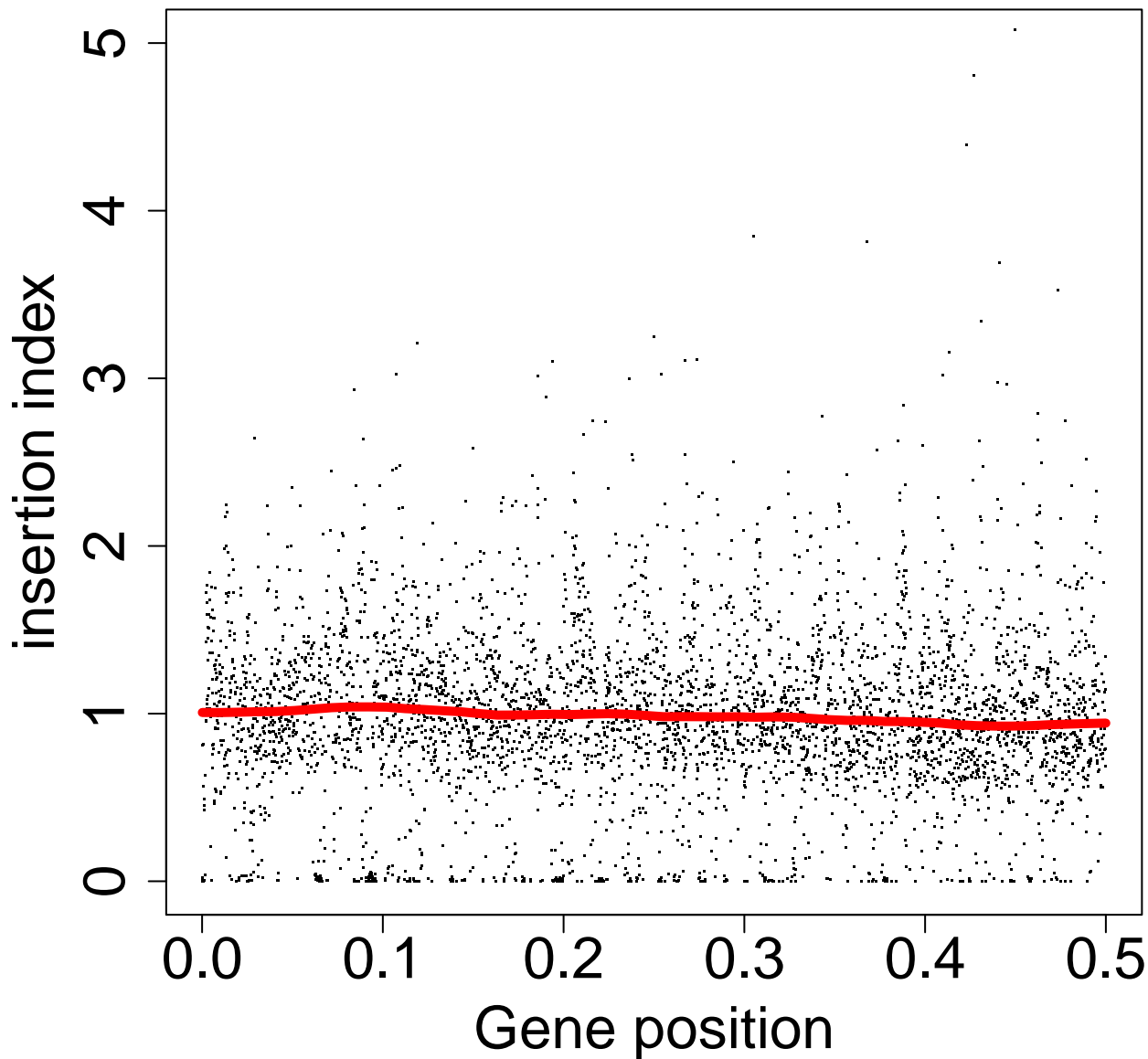
GC bias – *Salmonella typhimurium* SL134



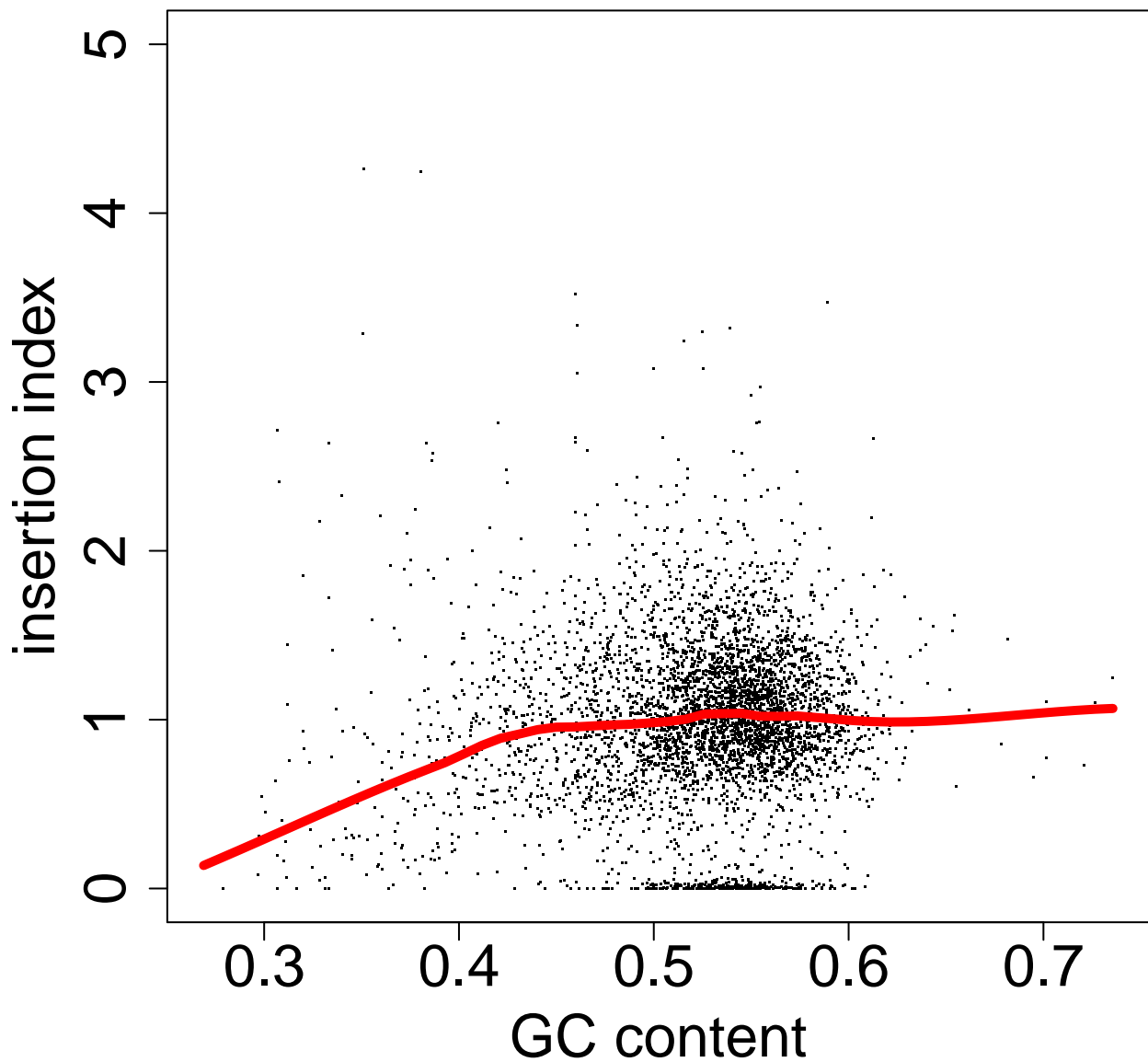
without essential genes – *Salmonella typhimurium*



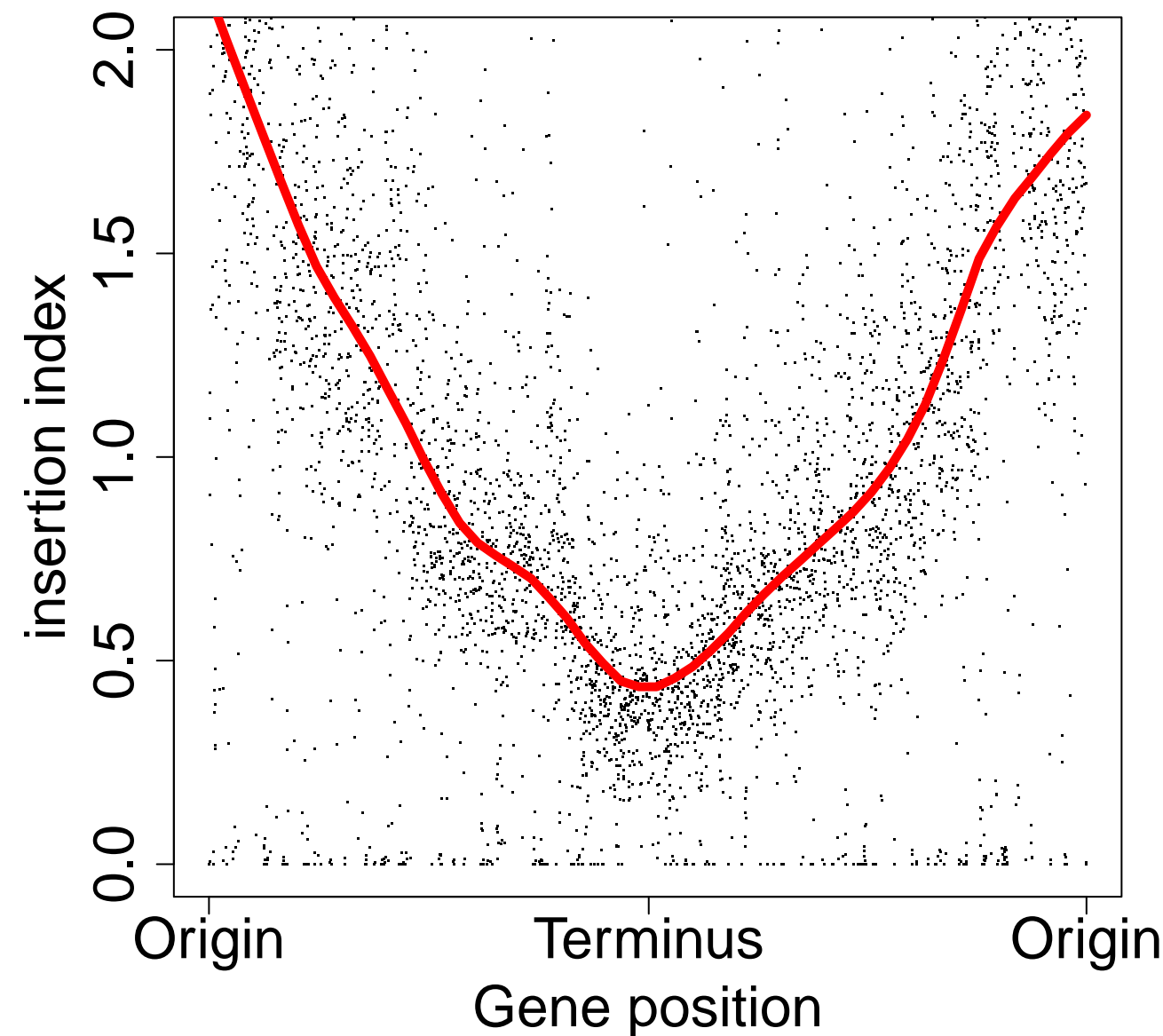
monella typhimurium SL1344 – normalised d



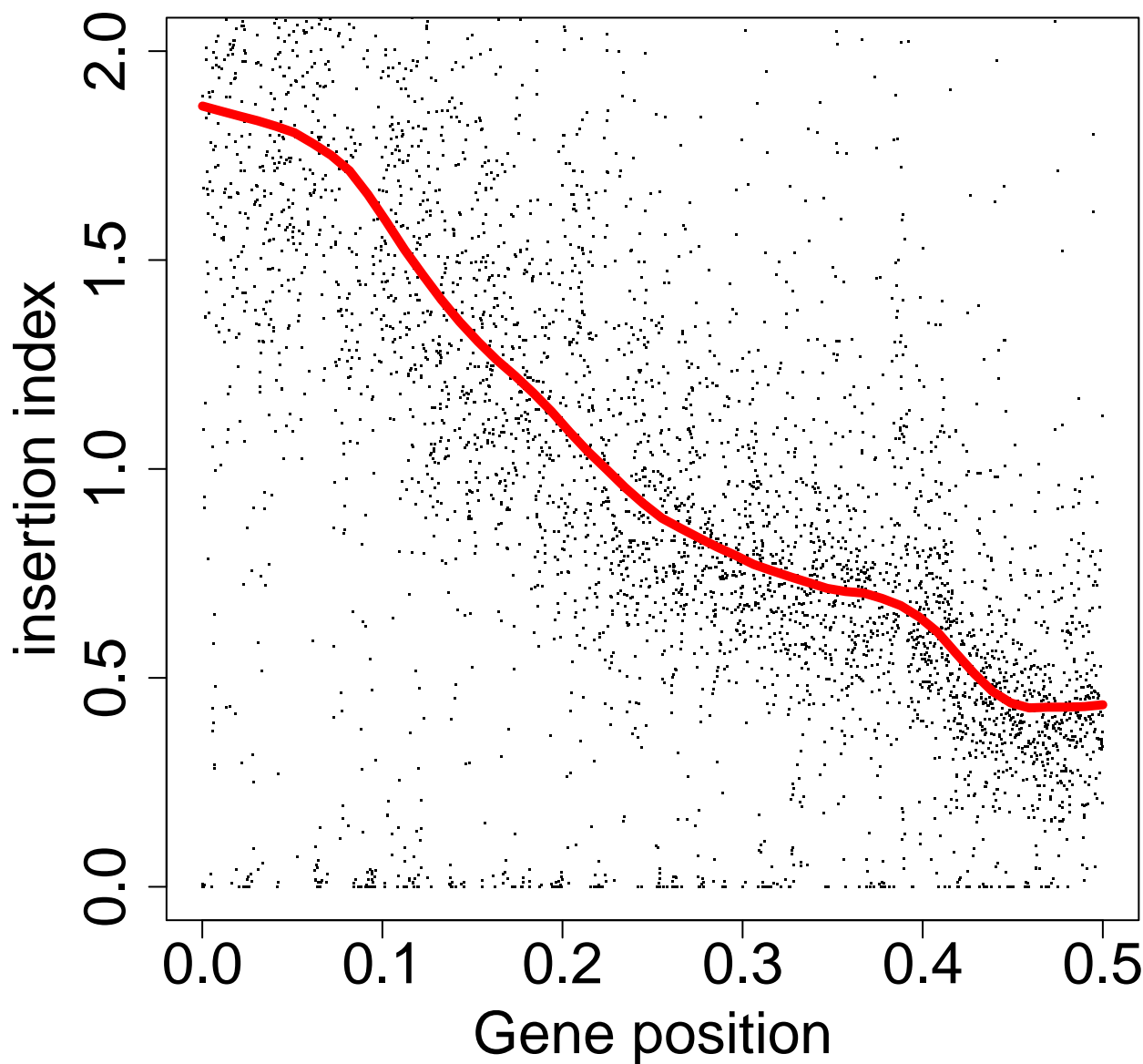
Salmonella typhimurium SL1344 – normalised



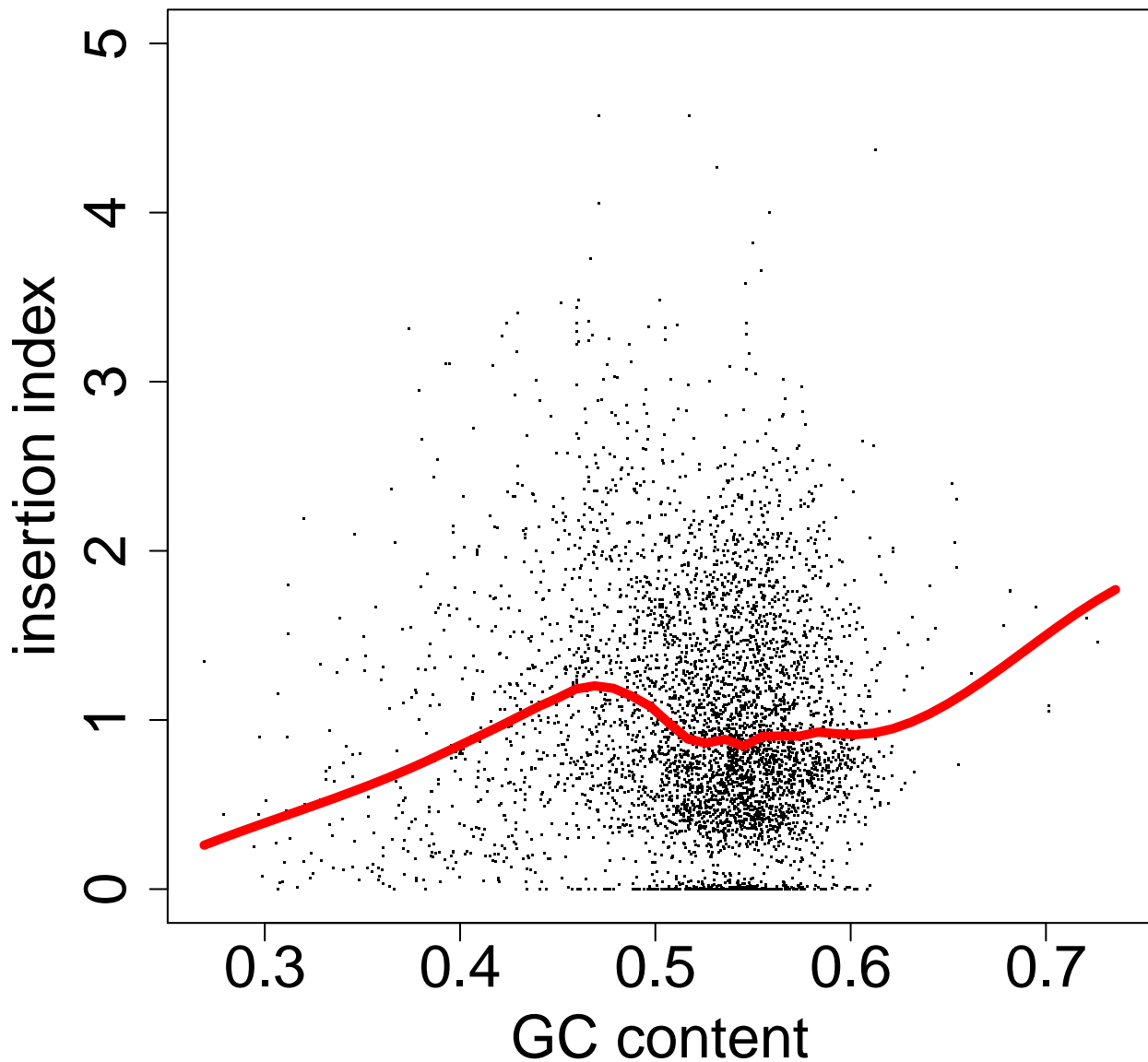
Distance bias – *Salmonella typhimurium* SL3



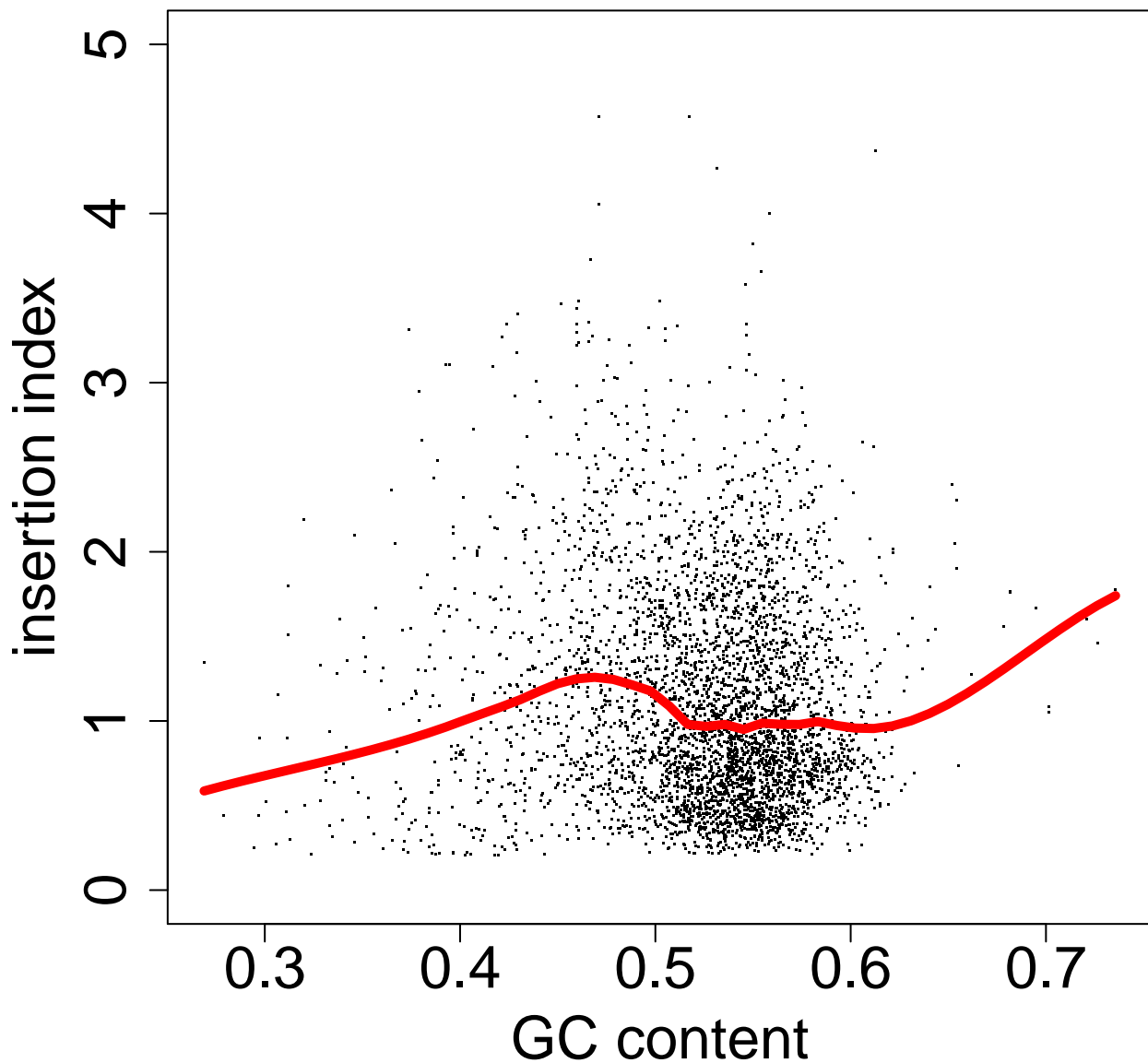
Distance bias – *Salmonella typhimurium* SL3



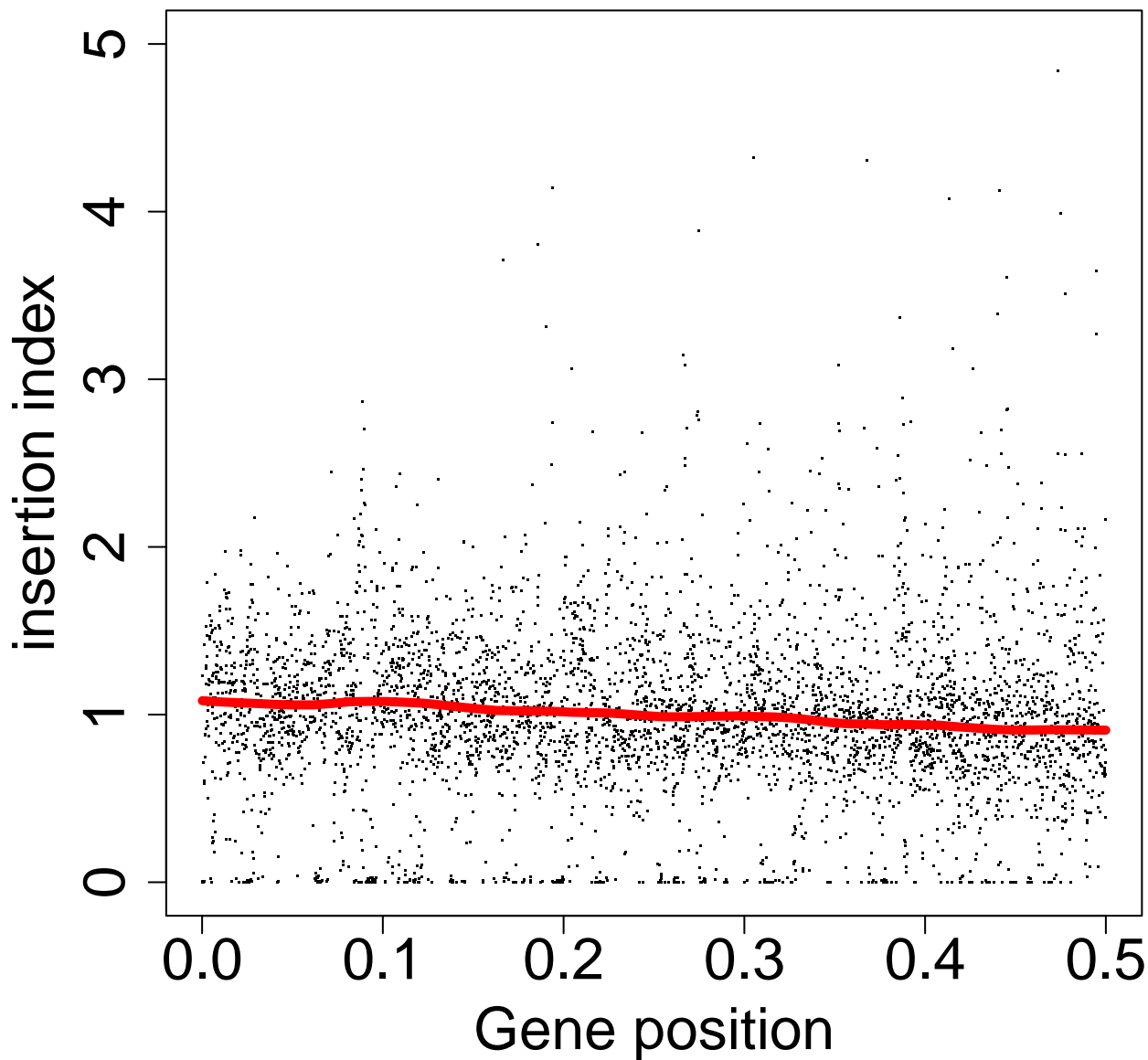
GC bias – *Salmonella typhimurium* SL326



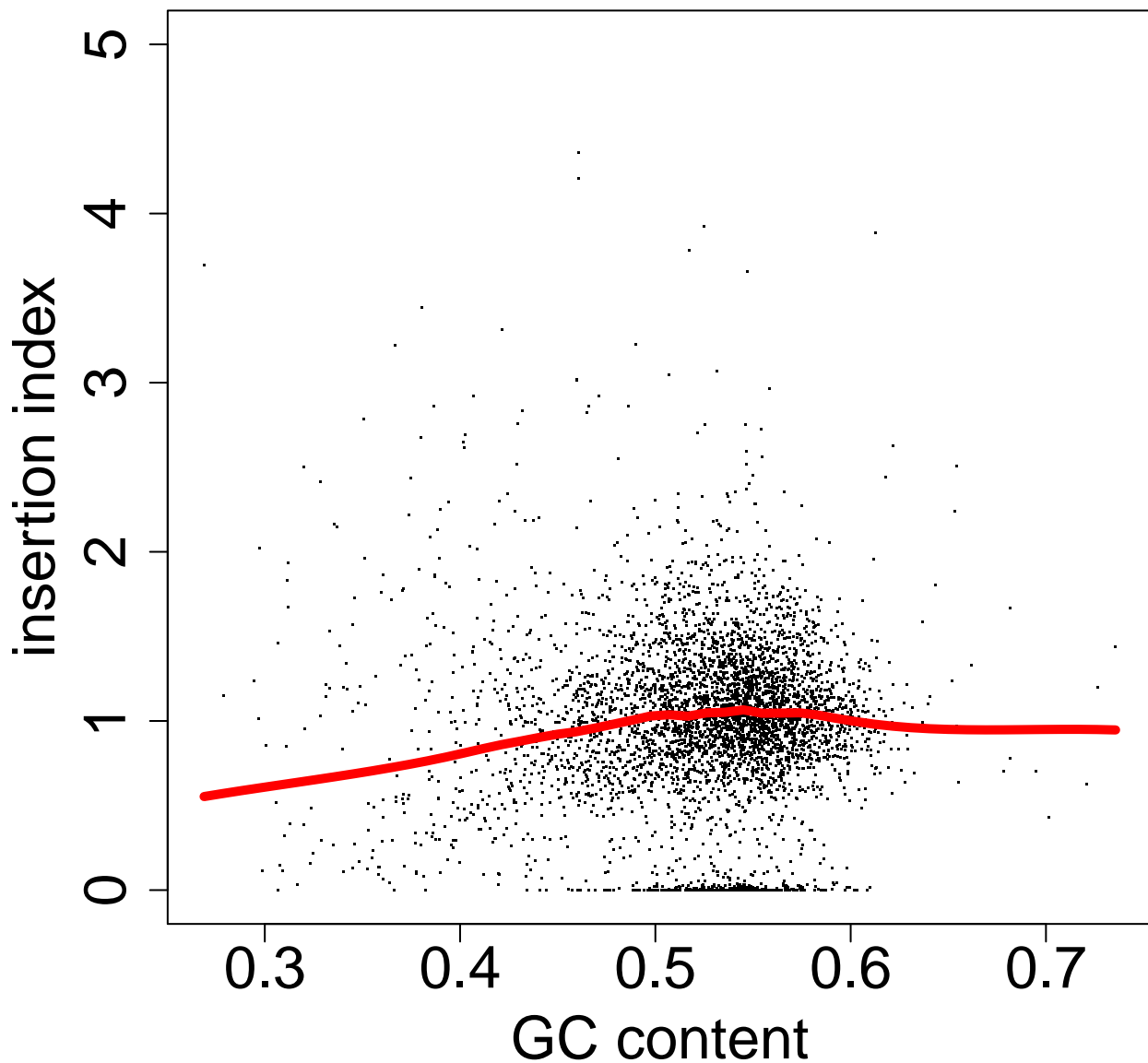
without essential genes – *Salmonella typhimurium*



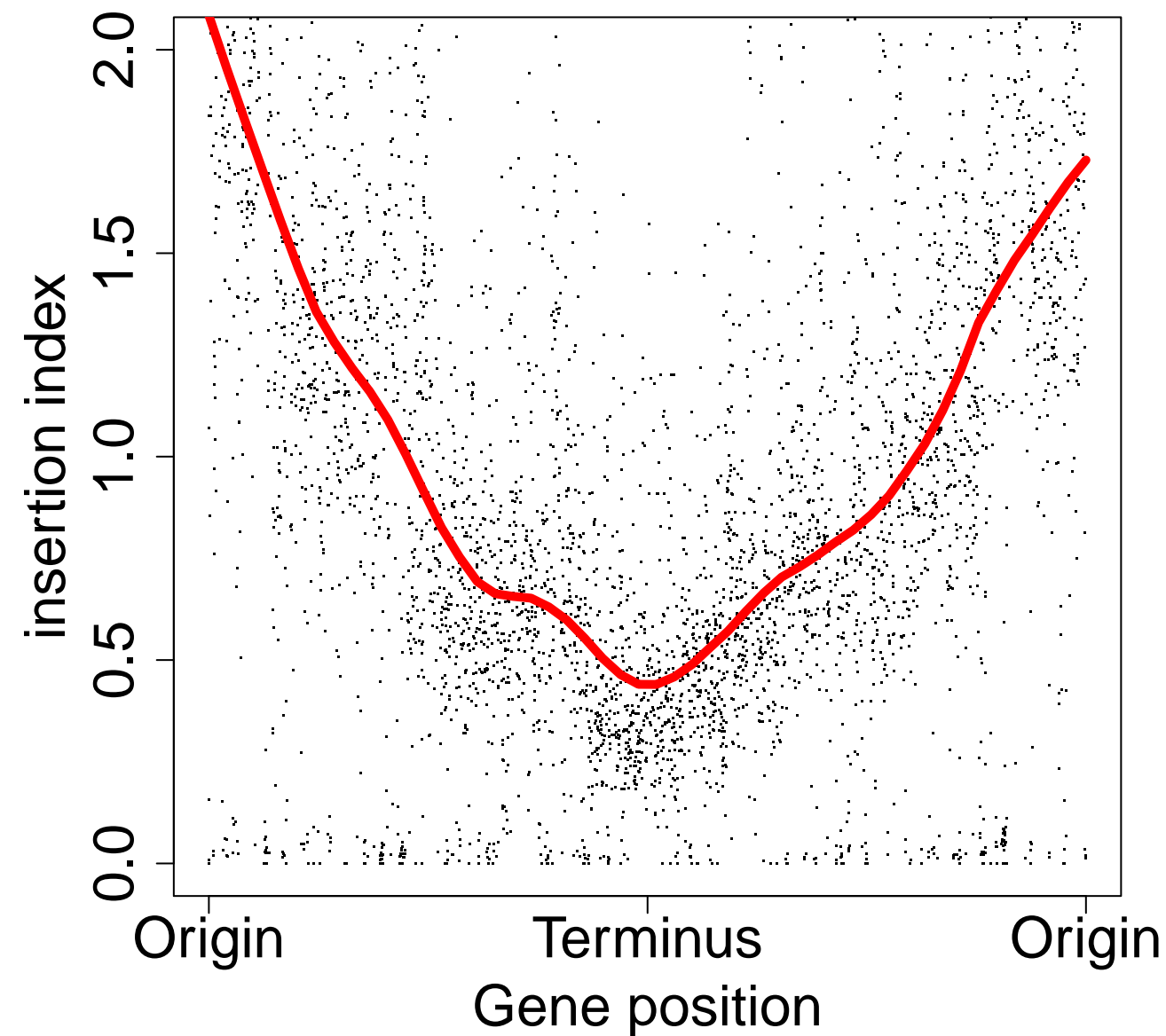
monella typhimurium SL3261 – normalised d



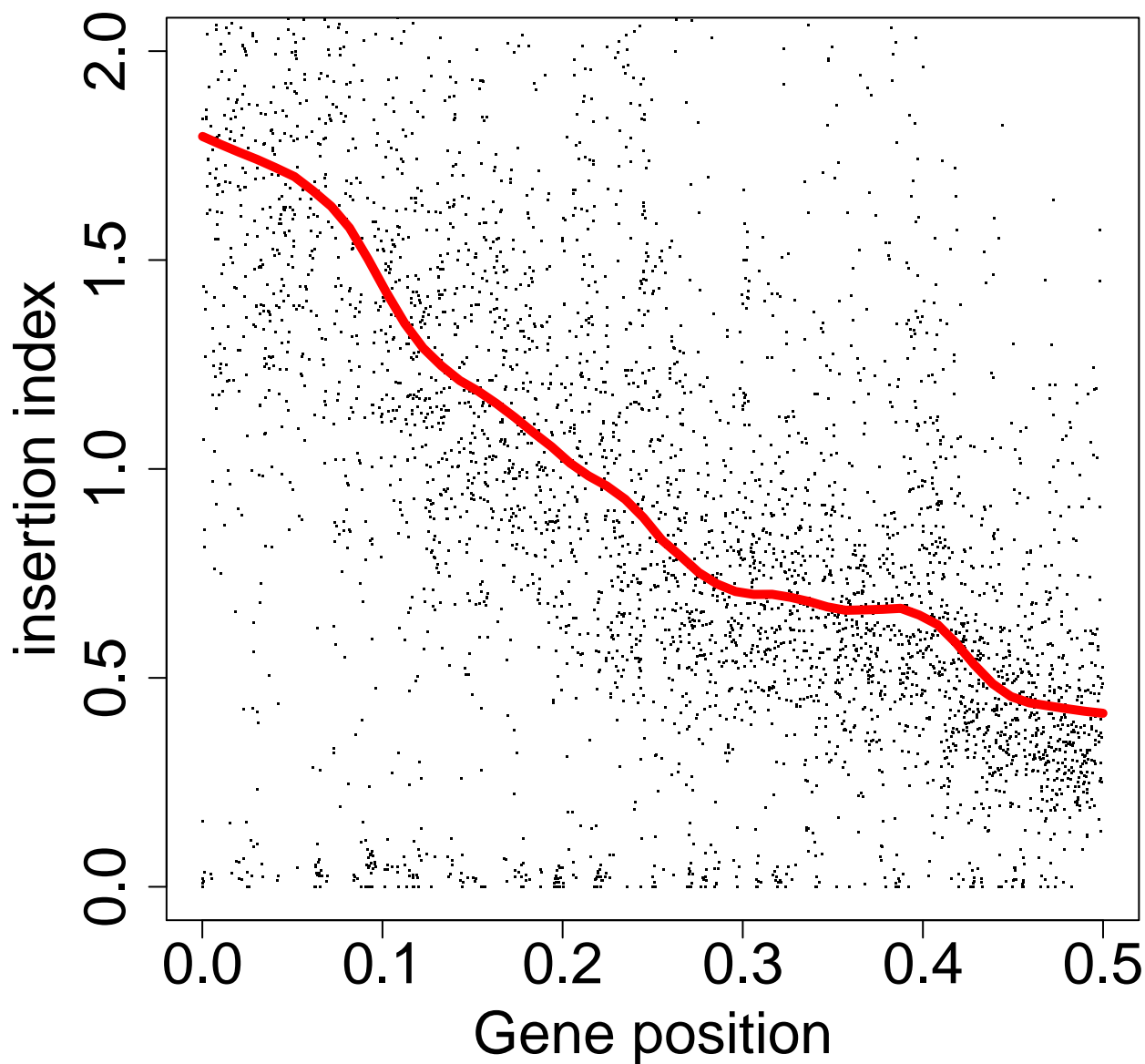
Salmonella typhimurium SL3261 – normalised



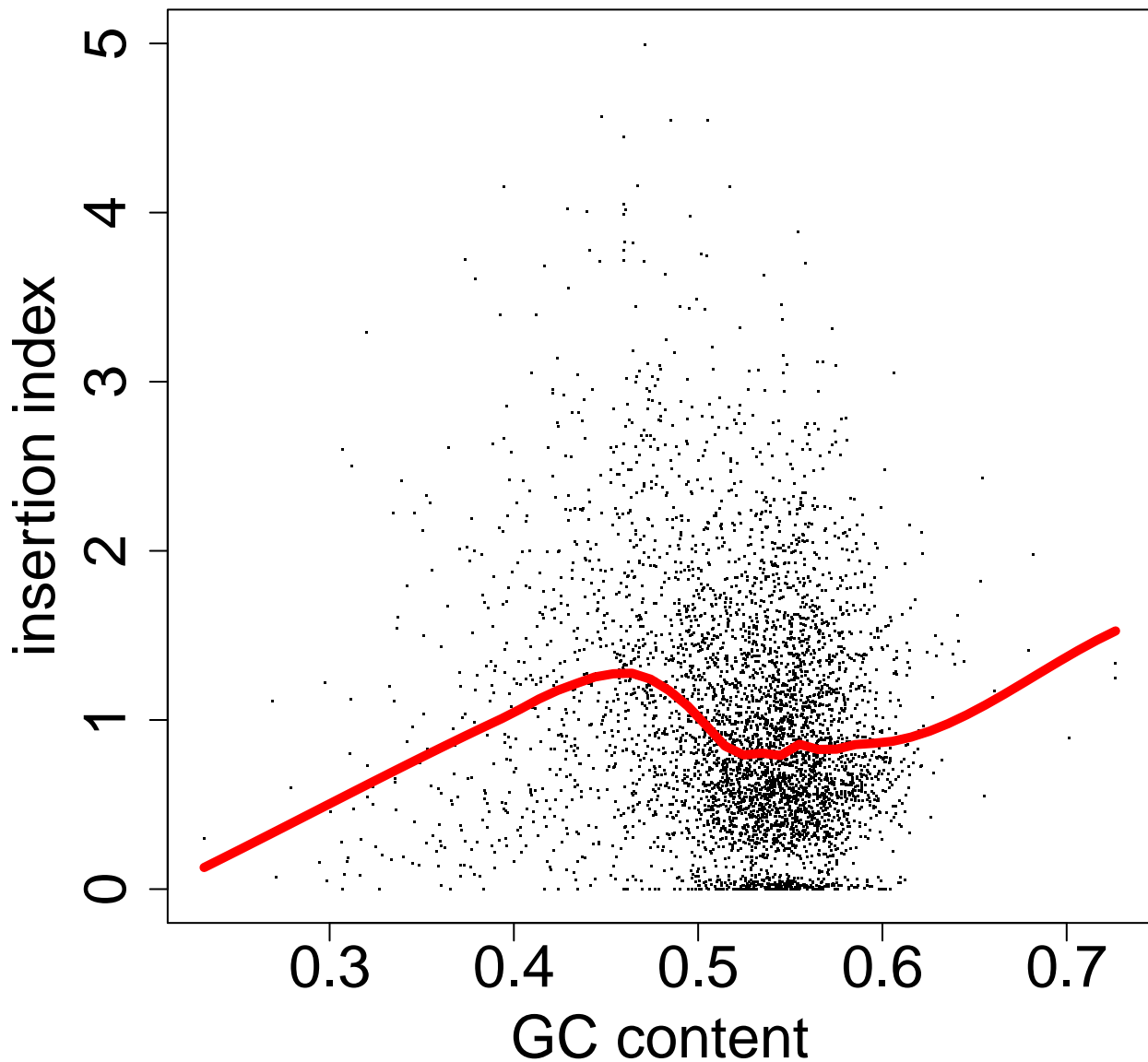
Distance bias – *Salmonella typhimurium* D23



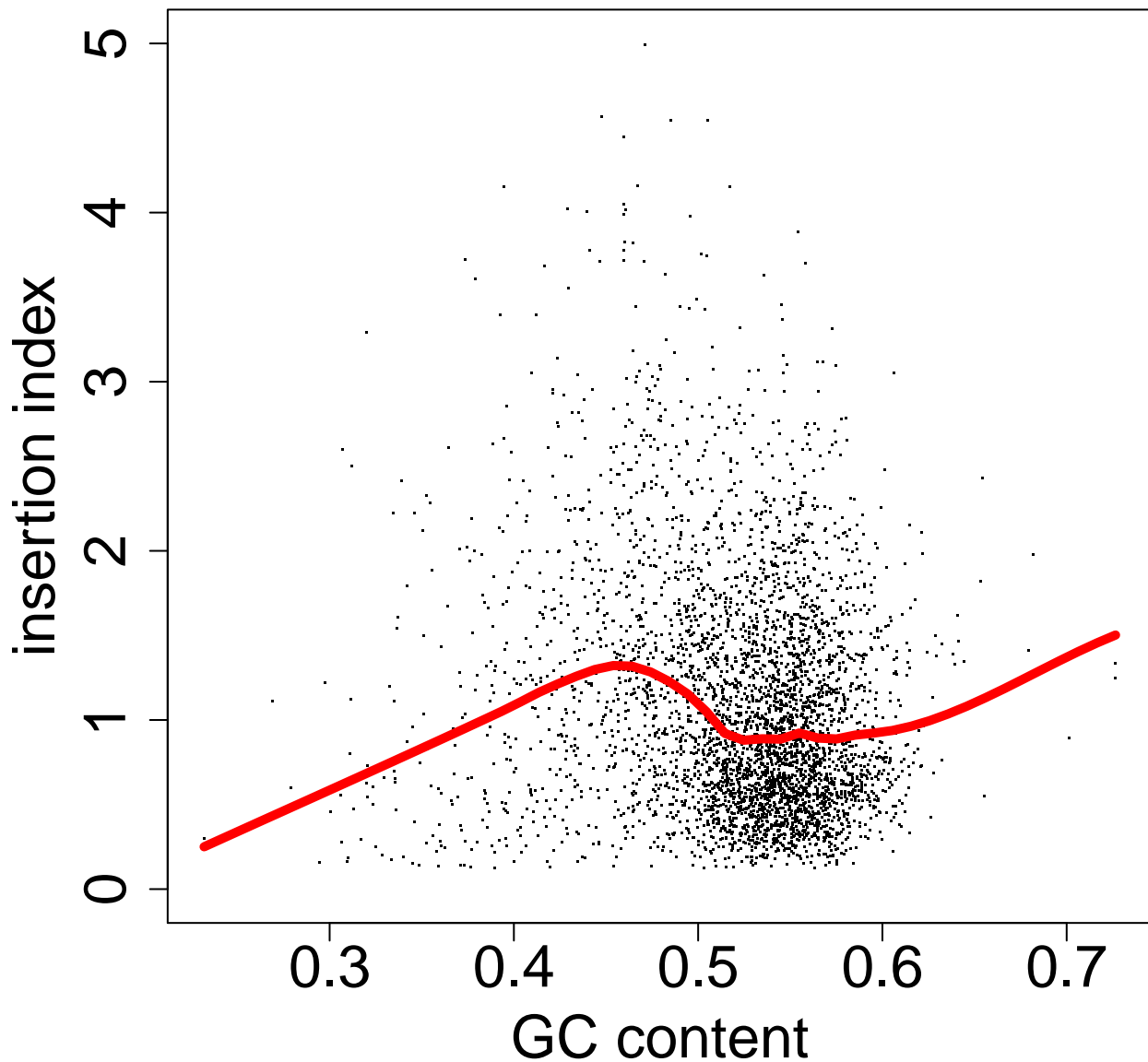
Distance bias – *Salmonella typhimurium* D23



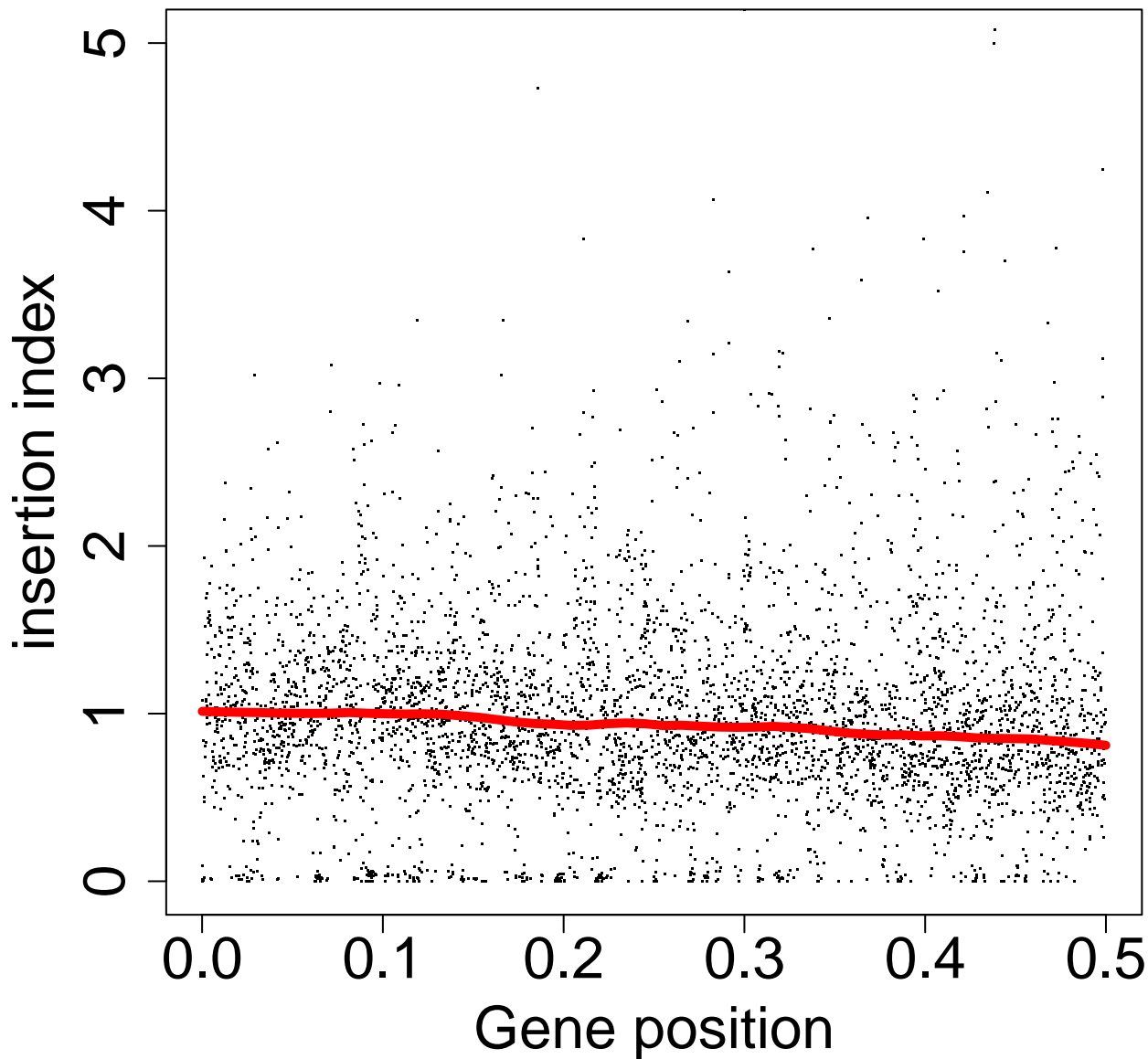
GC bias – *Salmonella typhimurium* D2358



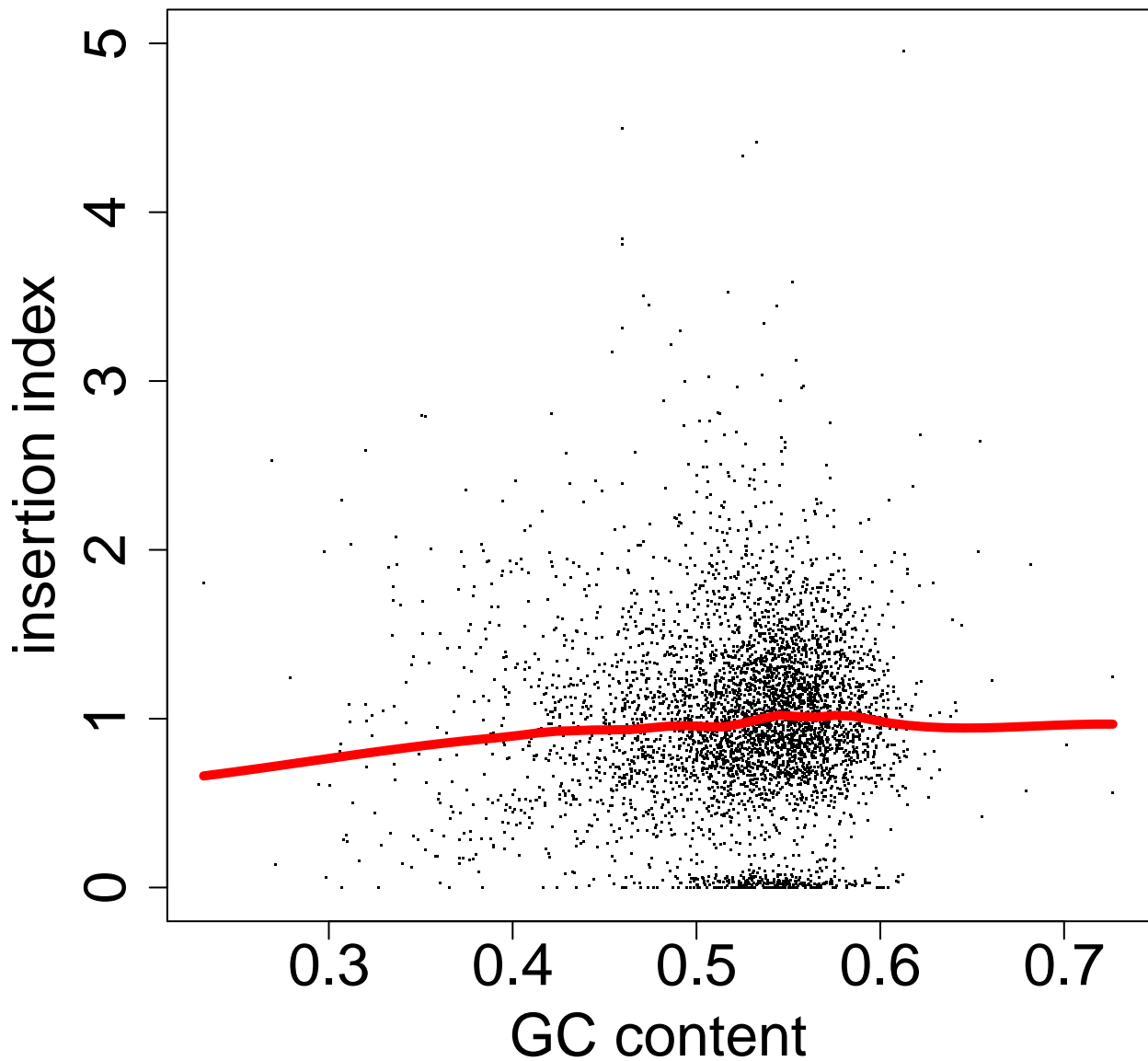
without essential genes – *Salmonella typhimurium*



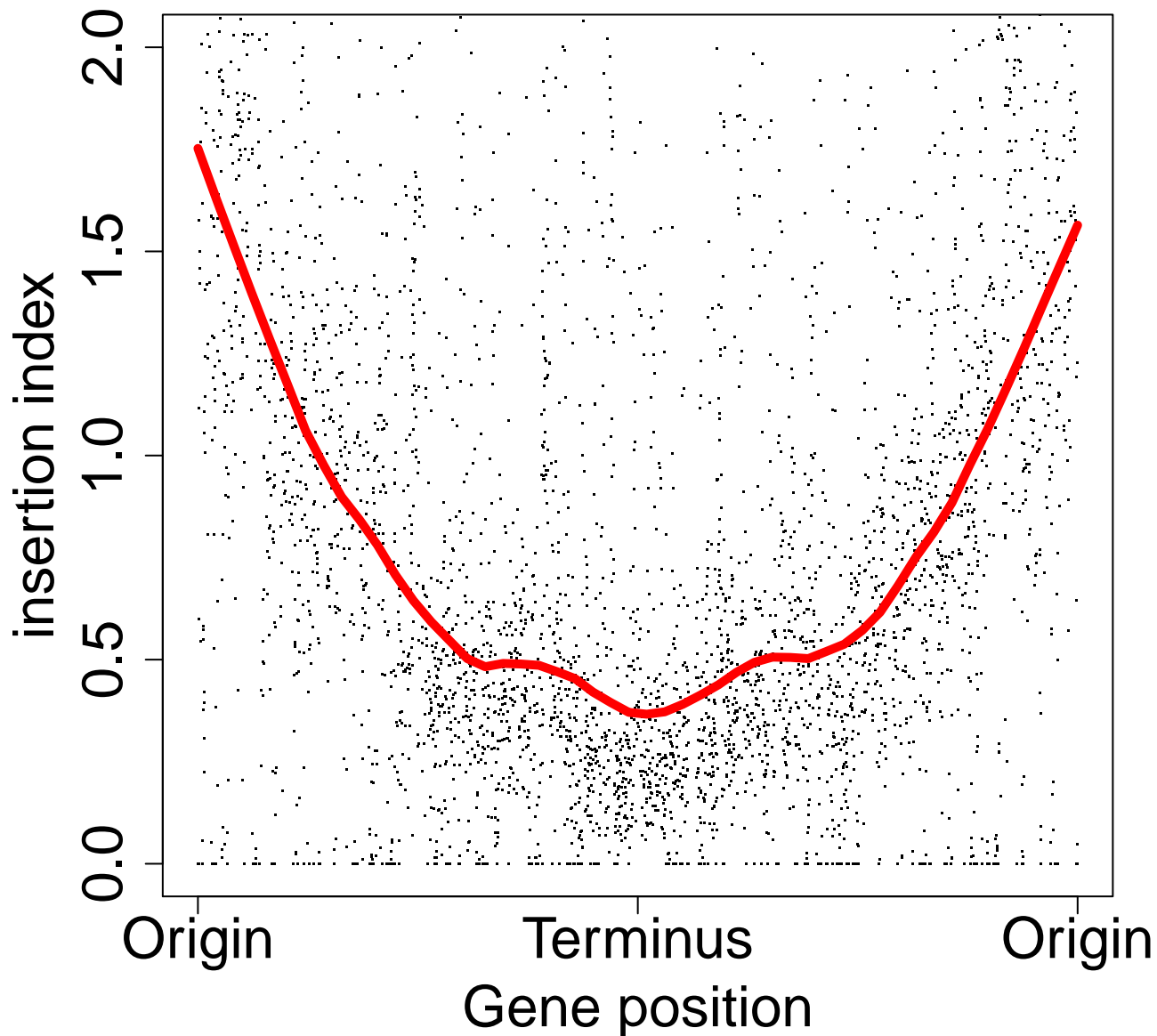
monella typhimurium D23580 – normalised d



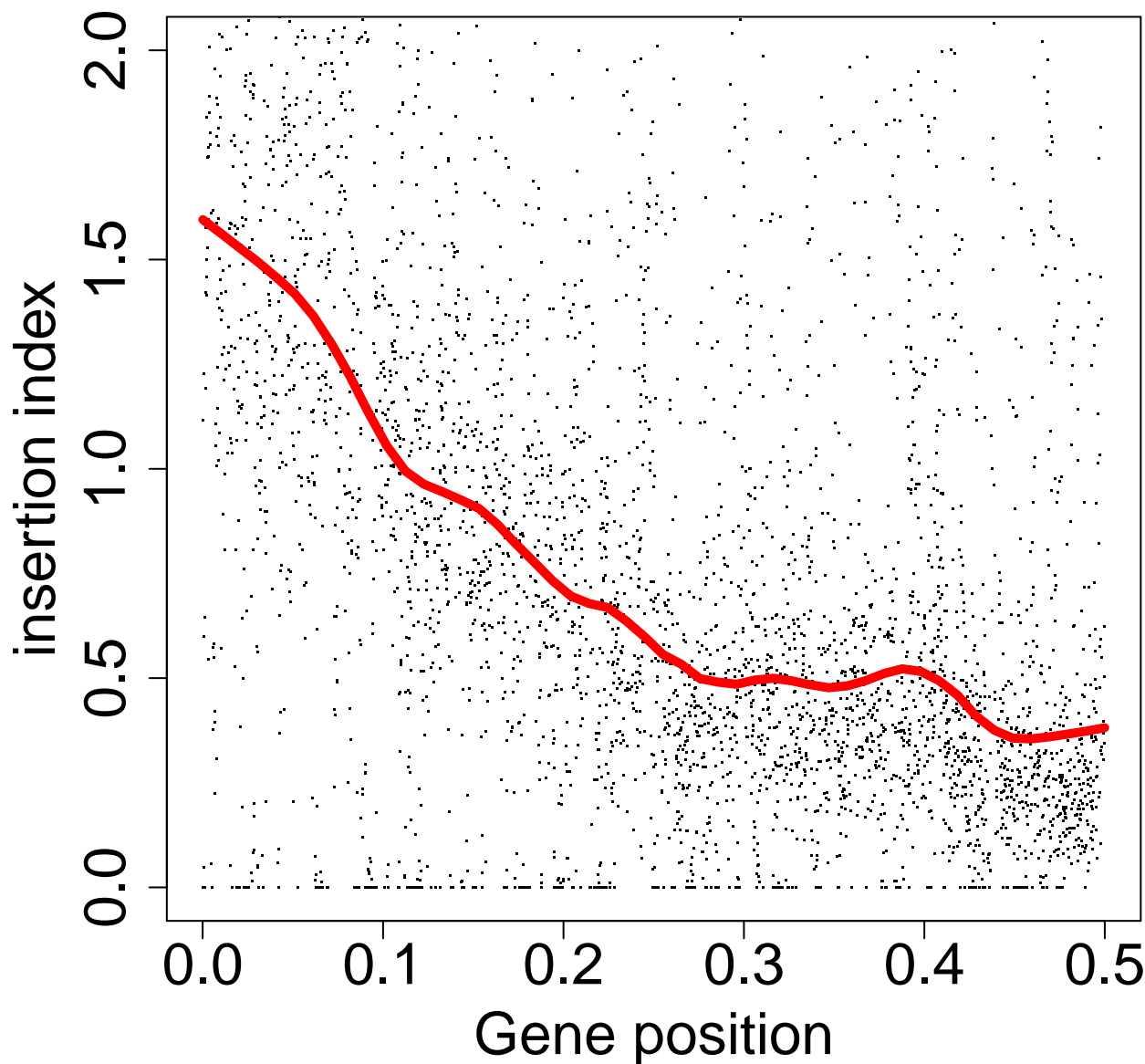
Salmonella typhimurium D23580 – normalised



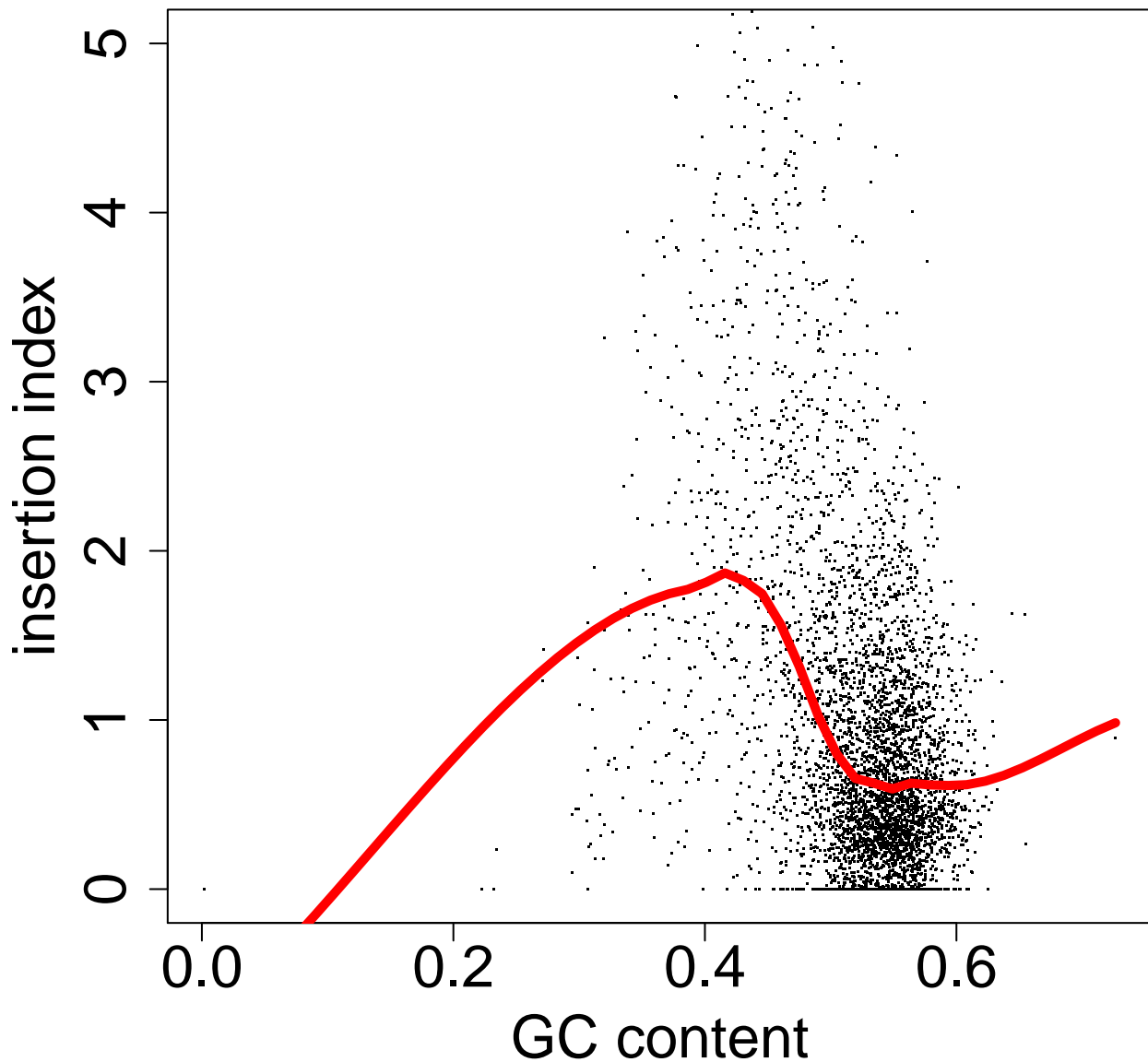
Distance bias – *Salmonella typhimurium* A1



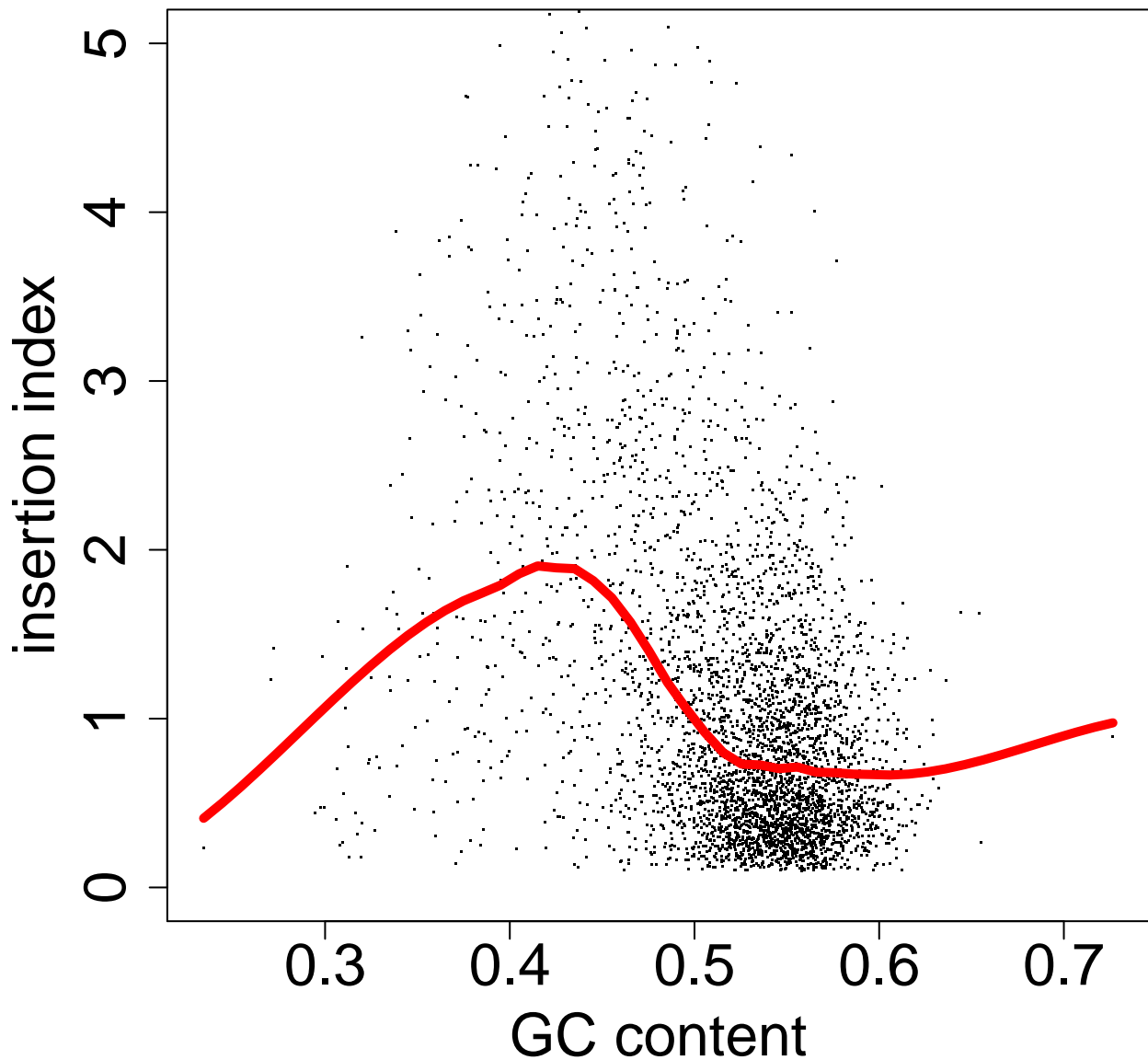
Distance bias – *Salmonella typhimurium* A1



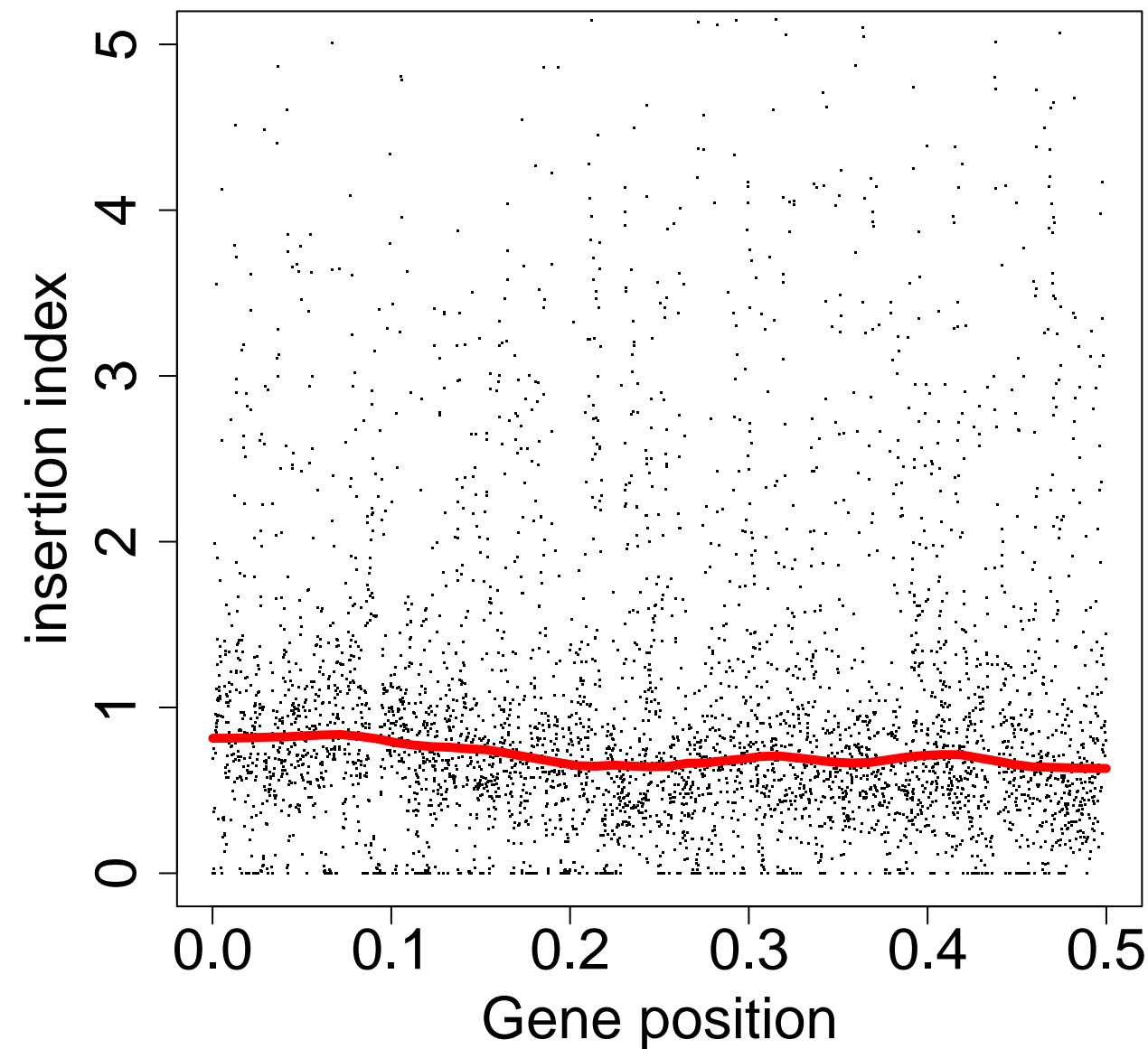
GC bias – *Salmonella typhimurium* A130



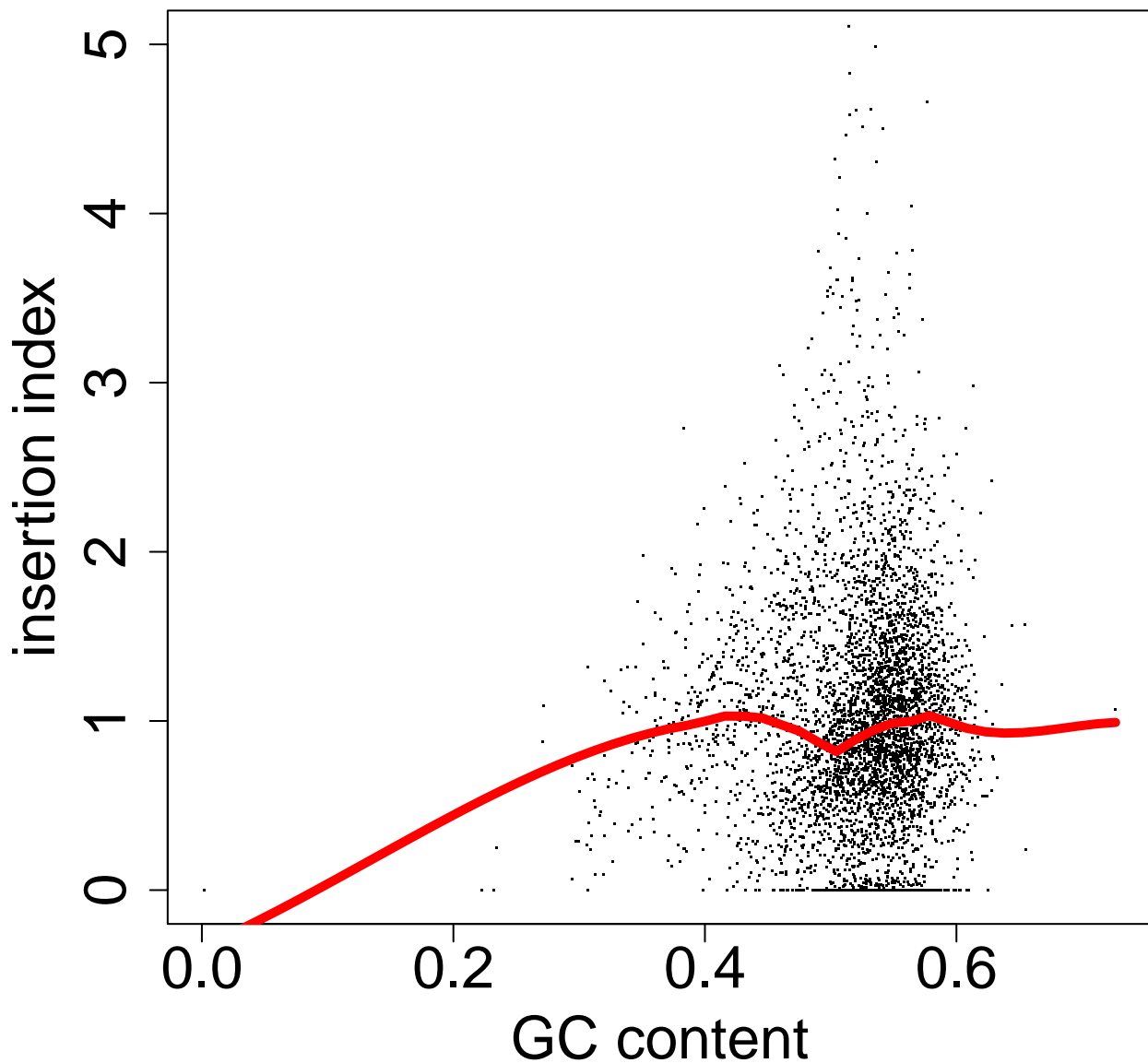
without essential genes – *Salmonella typhimurium*



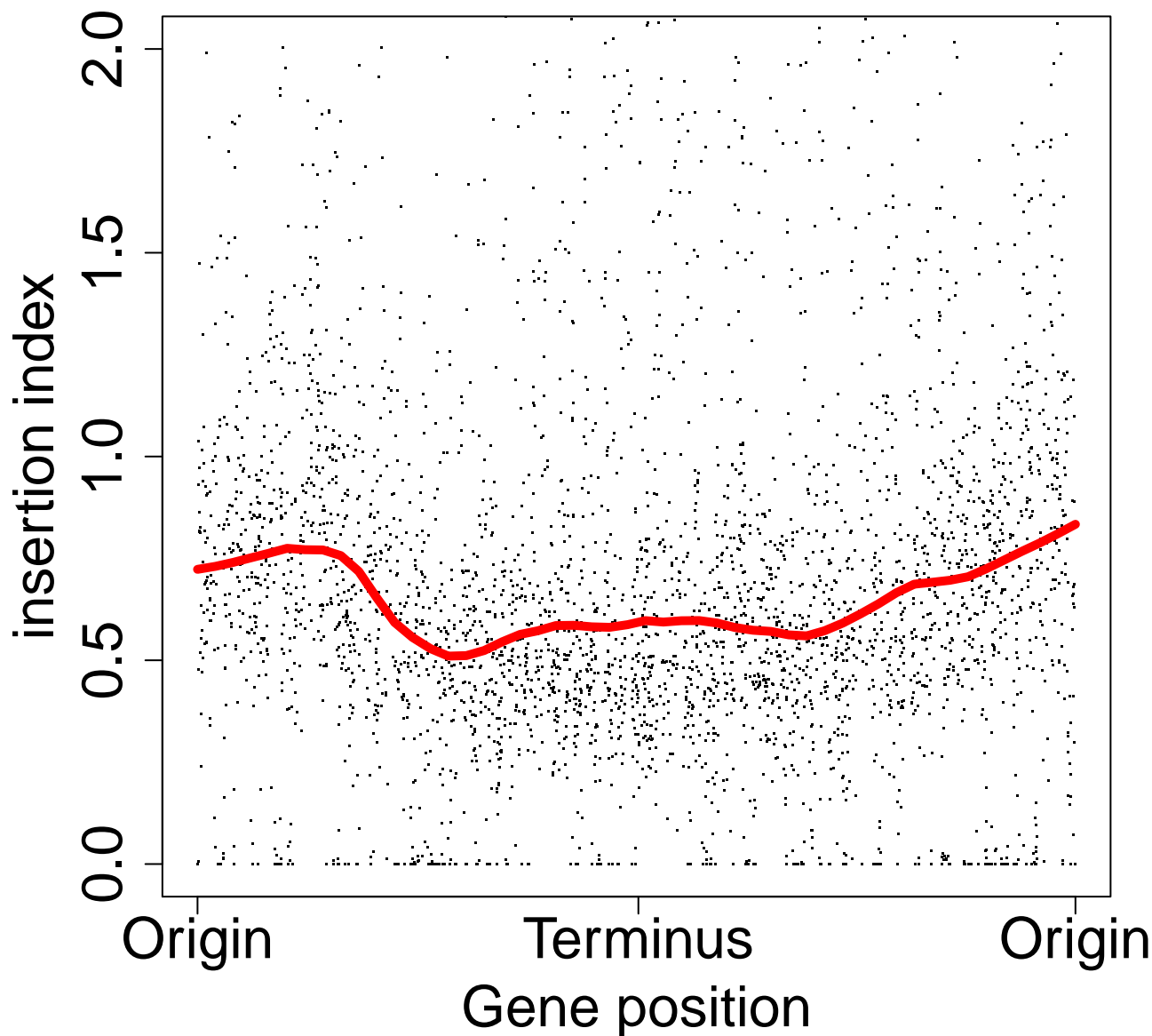
Salmonella typhimurium A130 – normalised dis



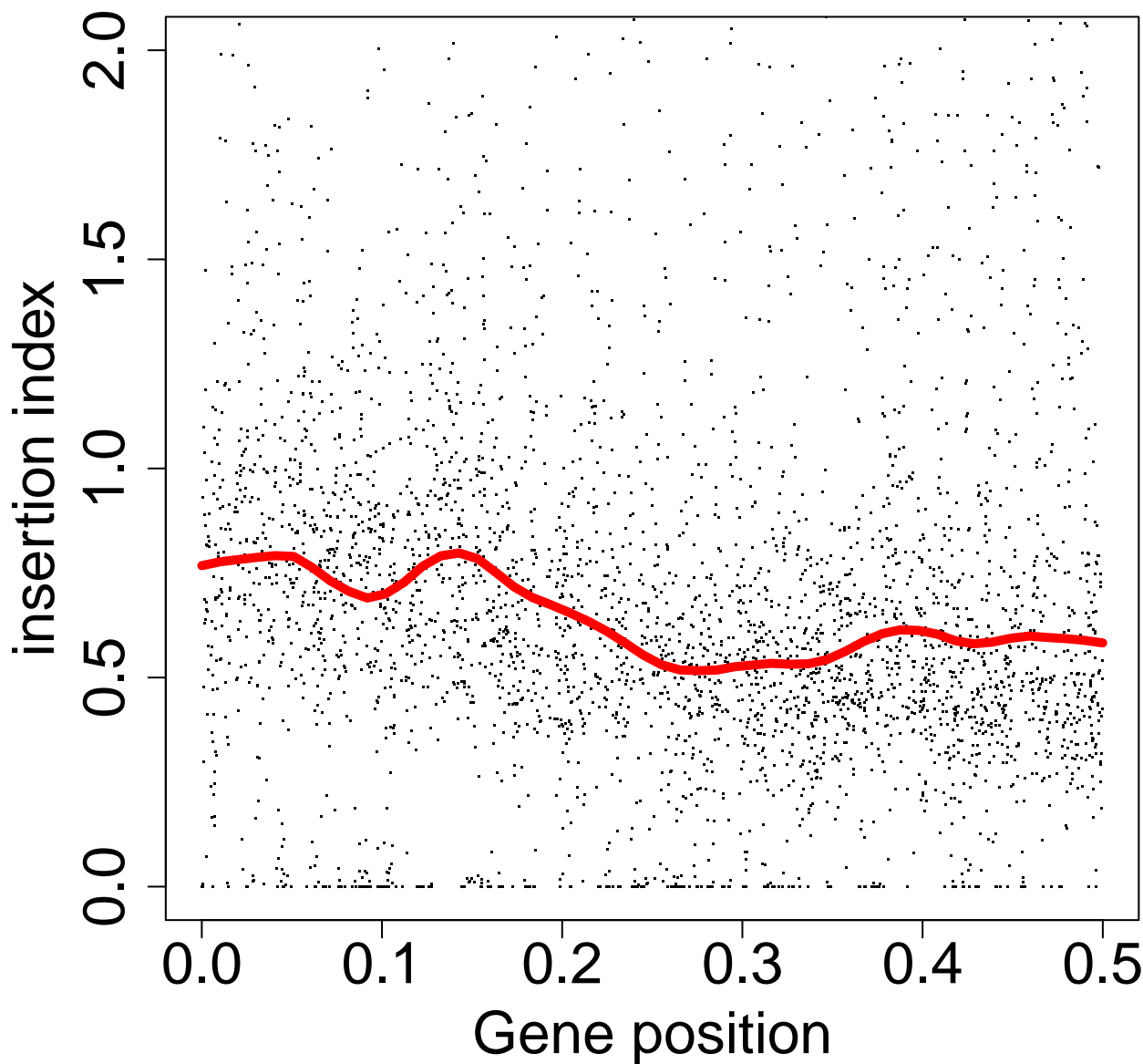
Salmonella typhimurium A130 – normalised



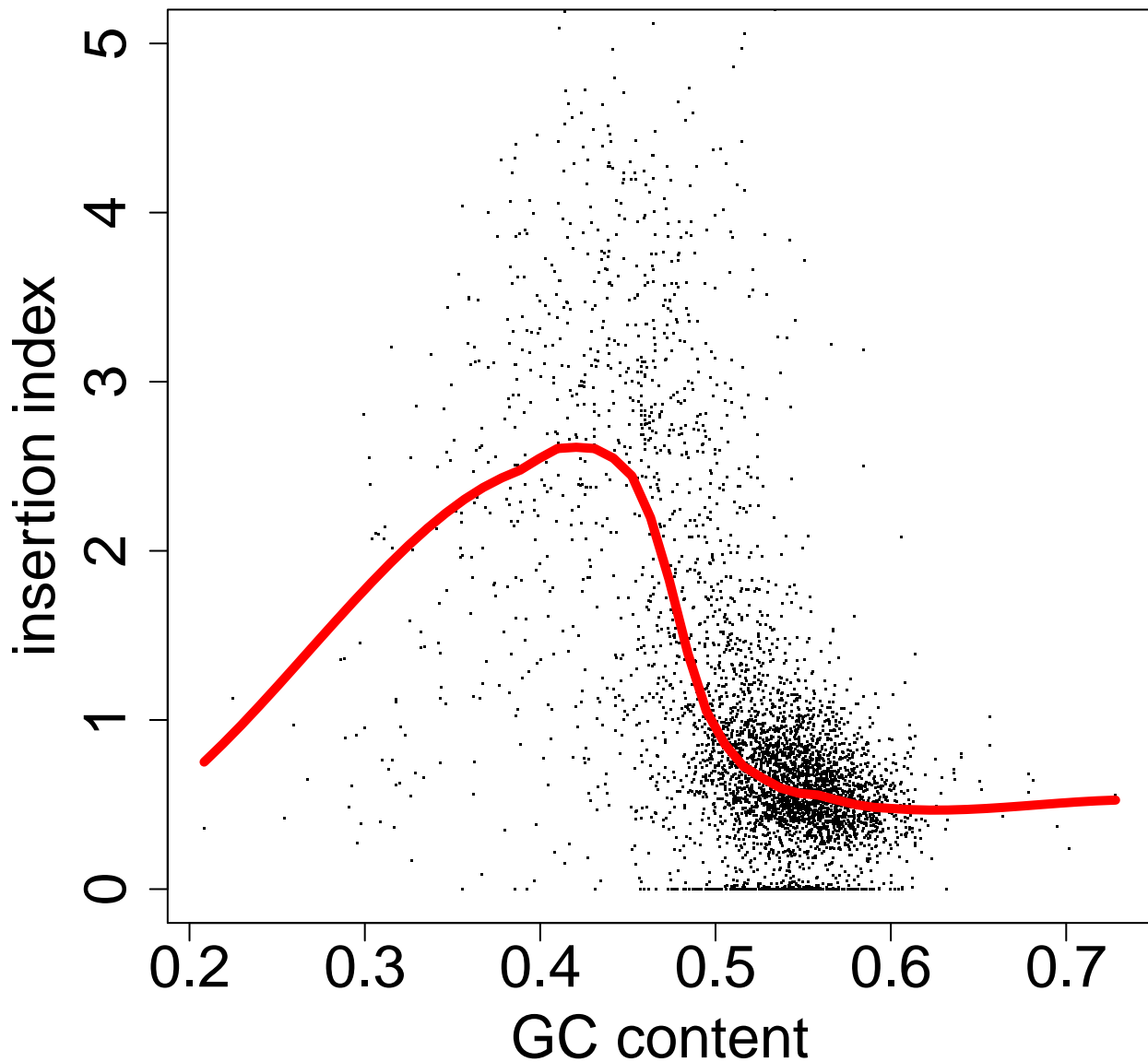
Distance bias – *Salmonella typhi*



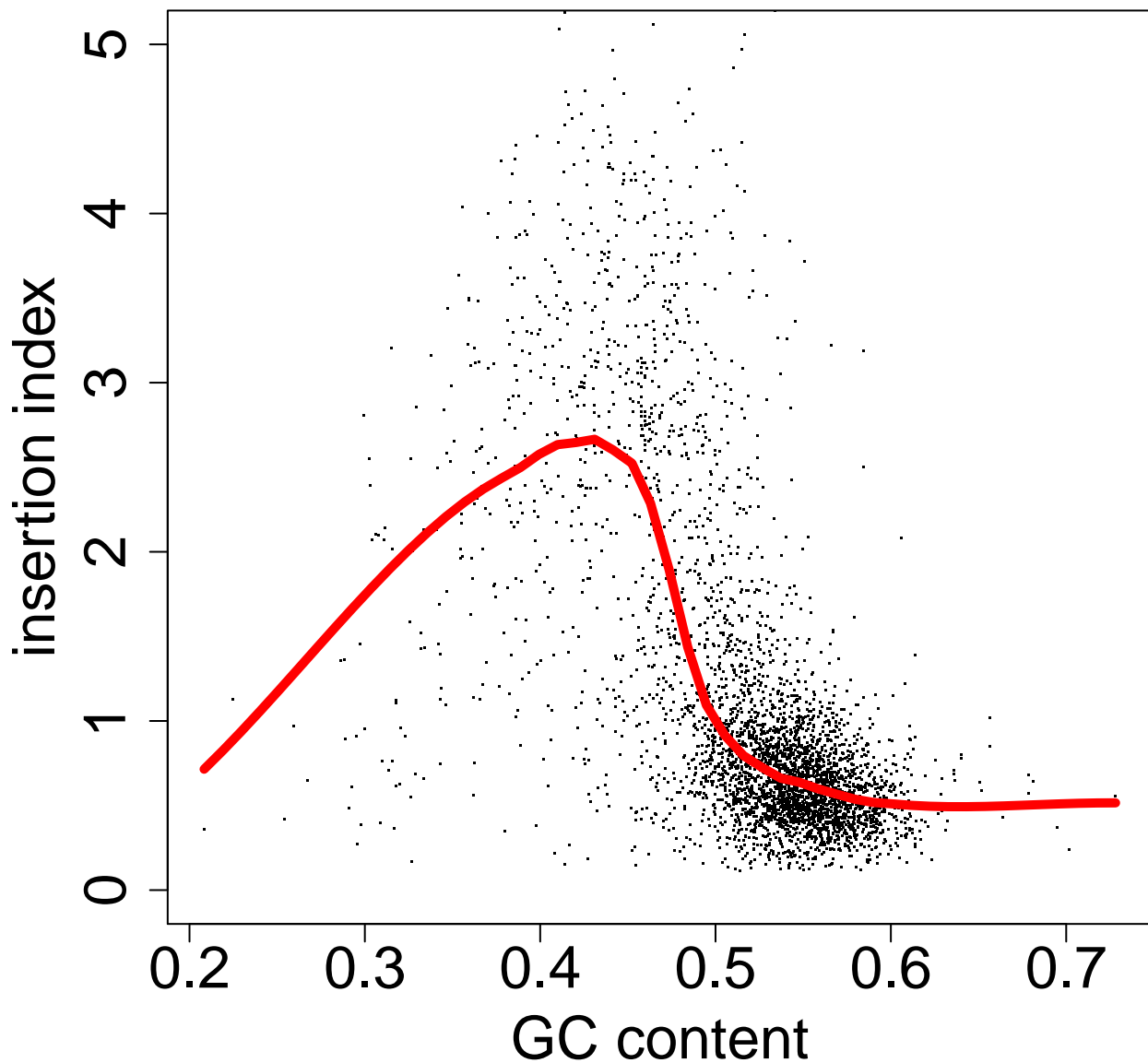
Distance bias – *Salmonella typhi*



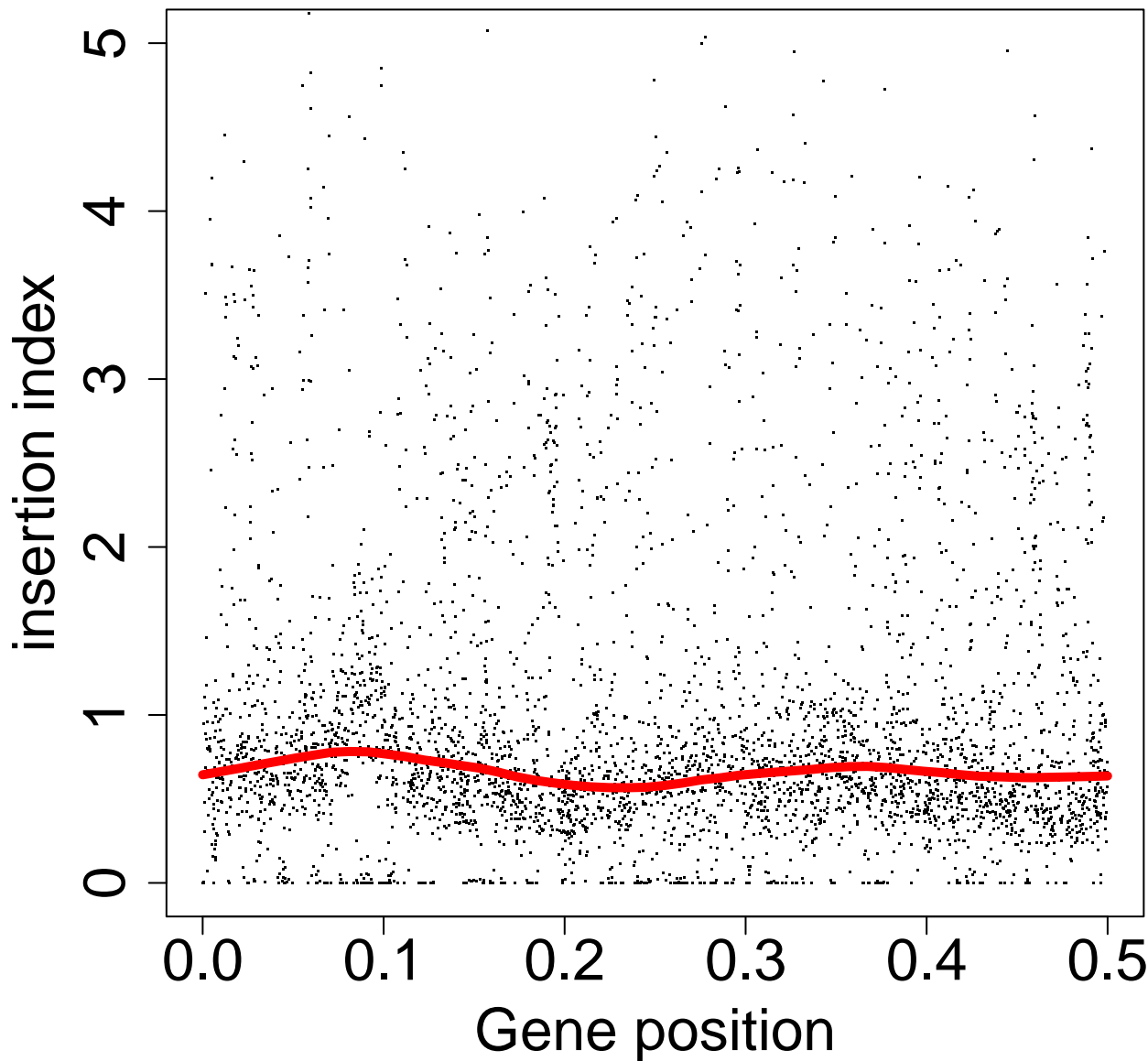
GC bias – *Salmonella typhi*



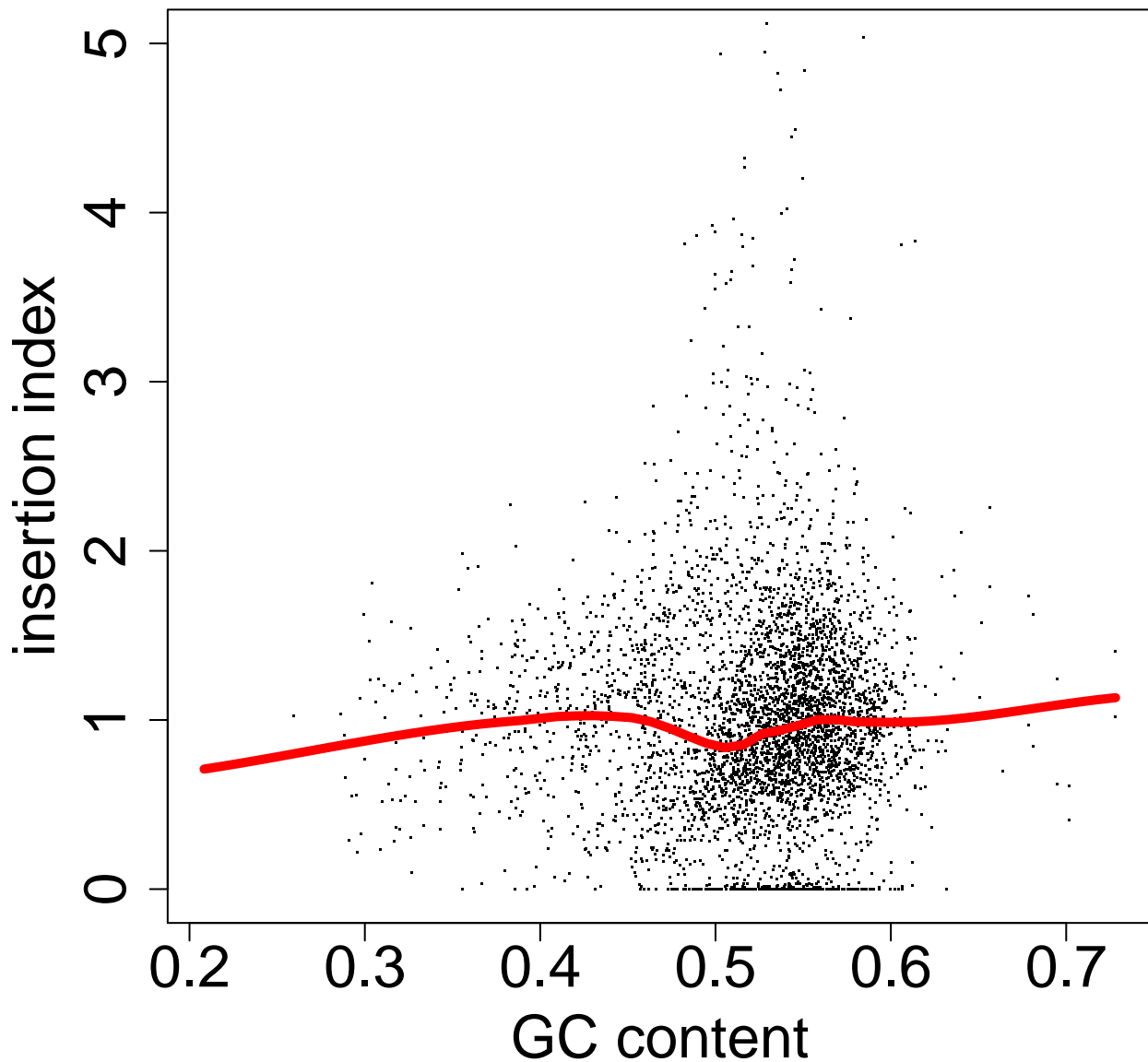
C bias without essential genes – Salmonella



Salmonella typhi – normalised distance



Salmonella typhi – normalised GC



GC bias

