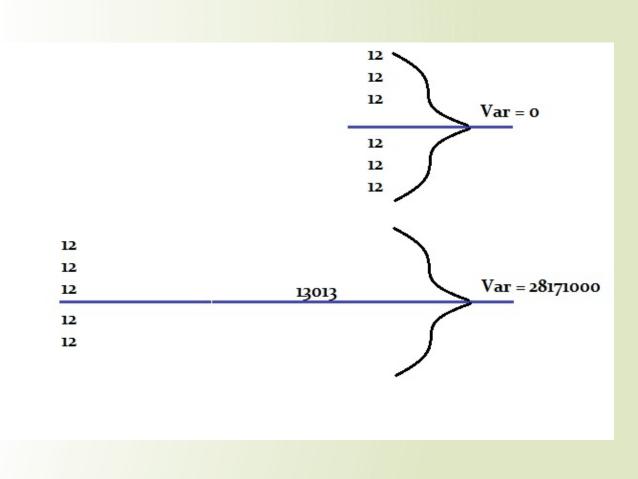
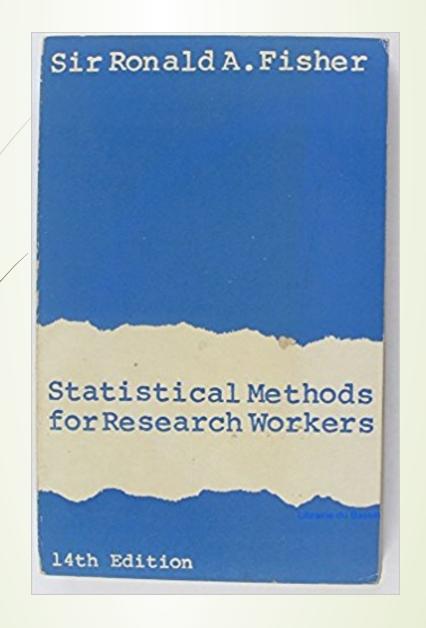
Fisher – Kolmogorov – Petrovsky – Piskunov Equation

Srinivas Setty

Ronald Fisher: 1890 - 1962







Statistical Methods for Research Workers

BY

R. A. FISHER, M.A.

Fellow of Gonville and Caius College, Cambridge Chief Statistician, Rothamsted Experiment Station

OLIVER AND BOYD

EDINBURGH: TWEEDDALE COURT
LONDON: 33 PATERNOSTER ROW, E.C.

1925

The Design of Experiments

By

R. A. Fisher, Sc.D., F.R.S.

Formerly Fellow of Gonville and Caius College, Cambridge Honorary Member, American Statistical Association and American Academy of Arts and Sciences Galton Professor, University of London

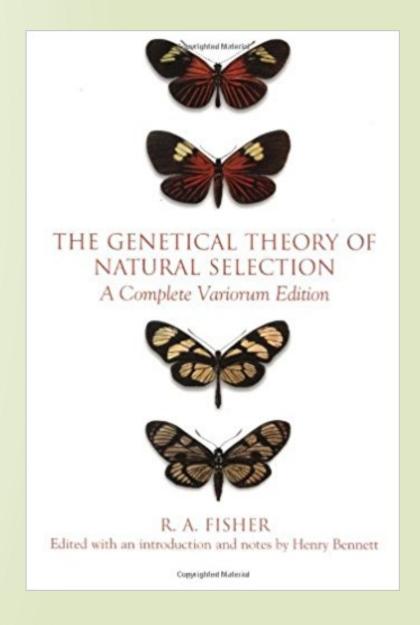
LIBRARY
THE PA. STATE
COLLEGE

Oliver and Boyd
Edinburgh: Tweeddale Court
London: 33 Paternoster Row, E.C.

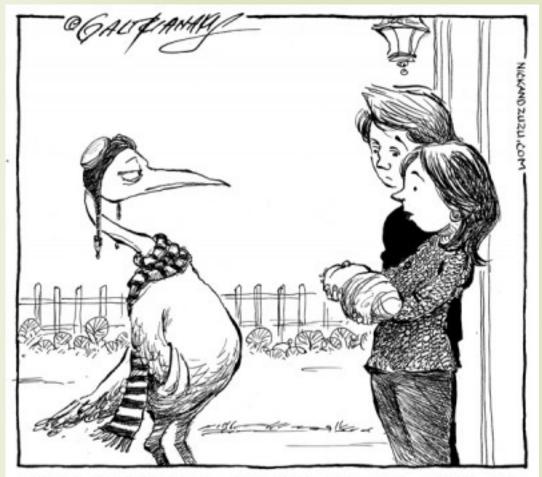
Null Hypothesis: Hypothesis stating that there is no statistically significant difference between two data sets

Considered by many statisticians

and biologists to be a spiritual
successor to Darwin's "The Origin of
Species"



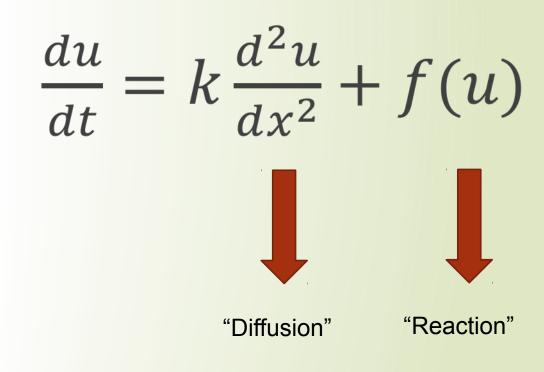




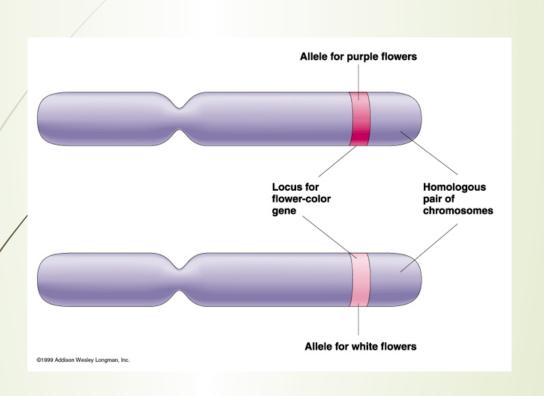
JUST CONFIRMING, YOU DID GET HIM FROM THE "FUTURE COLLEGE GRADUATE" SECTION, RIGHT?



Kpp Equation: Diffusion and Reaction



Fisher-KPP Equation: Advantageous Genes



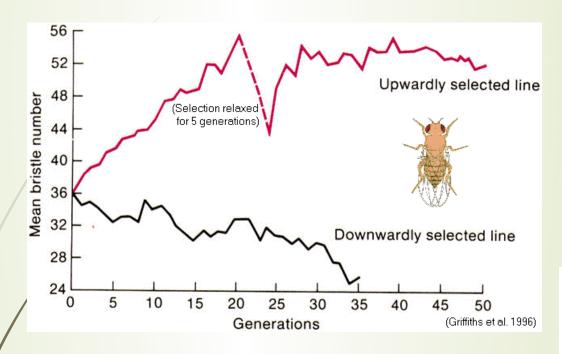


Fisher-KPP Equation: Mathematical Basis to Gene Diffusion

 $\frac{dp}{dt} = k \frac{d^2p}{dx^2} + mpa$

- p frequency of mutant allele
- p—fræqueacycoyfopfameutantelellele
- m = intensity of salection in the per of the mutant gene
- * TK(dp/dp/nsiRater of allelio diffusions partially ever papylation boundaries
- kk diffusion constant unique to allele and spacies er population boundaries
- k diffusion constant unique to allele and species

Applications



Fisher-KPP equations and applications to a model in medical sciences

Benjamin CONTRI *

Aix Marseille Université, CNRS, Centrale Marseille Institut de Mathématiques de Marseille, UMR 7373, 13453 Marseille, France

References

- https://www.famousscientists.org/ronald-fisher/
- Fisher, R. A. "The Wave Of Advance Of Advantageous Genes." *Annals of Eugenics*, vol. 7, no. 4, 1937, pp. 355–369., doi:10.1111/j.1469-1809.1937.tb02153.x.