DR DOUG SPEED

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CAREER SUMMARY

I have a strong background in mathematics and statistical genetics: my undergraduate degree was in mathematics (University of Oxford), while for my PhD I developed Bayesian methods for the analysis of genome-wide association study data (University of Cambridge). From 2010-2017, I was at UCL, first as a post-doctoral fellow, then under a MRC Career Development Fellowship. My main focus is developing statistical methods for improved analysis of associaton study data. I have released the software suite LDAK, which enables more accurate estimation of SNP heritabilities, and includes MultiBLUP, the world-leading tool for constructing SNP-based prediction models. I am additionally involved in a number of worldwide analysis consortia, including for epilepsy, breast cancer and Type 1 Diabetes.

EDUCATION & EMPLOYMENT HISTORY

2017 – present   Aarhus Institute of Advanced Studies, **Aarhus Univesity**

2010 – 2017   UCL Genetics Instute, **University College London**

2014-2017: Medical Research Council (MRC) Early Career Fellow in Biostatistics
2010-2014: Postdoctoral researcher, supservised by Prof. David Balding

2006 - 2010   St Catharine's College, **University of Cambridge**

PhD Student in Dept. of Applied Maths and Theoretical Physics, supervised by Prof. Simon Tavaré
Viva passed January 2011, PhD awarded June 2011.

2000 - 2004   Exeter College, **University of Oxford**

Honour Degree in Mathematics: First Class

GRANTS & AWARDS

2017   Co-Investigator on Successful BBSRC Application (grant value £475,000)
2014   MRC Career Development Fellowship in Biostatistics (grant value £450,000)
2013   Young Biometrician of the Year (Fisher Memorial Trust & Int. Biometrics Society)

SELECTED PUBLICATIONS

D. Speed, N. Cai, the UCLEB Consoritium, M. Johnson, S. Nejentsev and D. Balding. (2017) Reevaluation of SNP heritability in complex human traits. **Nature Genetics**.

D. Speed and D. Balding. (2015) Relatedness in the post-genomic era: is it still useful? **Nature Reviews Genetics.**

D. Speed and D. Balding. (2014) MultiBLUP: improved SNP-based prediction for complex traits. **Genome Research.**

D. Speed, D. Balding, M. Johnson, et al. (2014) Describing the genetic architecture of epilepsy using heritability analysis. **Brain.**

D. Speed, G. Hemani, M. Johnson and D. Balding. (2013) SNP-based heritability analysis with dense data. **American J. Human Genetics.**

D. Speed, G. Hemani, M. Johnson and D. Balding. (2012) Improved Heritability Estimation from Genome-Wide SNPs. **American J. Human Genetics.**

C. Curtis, ..., **D. Speed (Author 7),** et al. (2012) The genomic and transcriptomic architecture of 2,000 breast tumours reveals novel subgroups. **Nature.**