

Daniel J M Crouch

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Research interests

Population genetics, statistical methodology, imaging data and spatial statistics, twin studies and heritability analysis, genomewide association studies (GWAS), evolutionary theory, forensic genetics.

Education and employment

Statistical Programmer, WCHG, University of Oxford	2018-
Senior Postdoctoral Fellow, University of Oxford	2014-2018
Postdoctoral Fellow, University of Oxford	2012-2014
Research Associate (temporary), King's College London	2011
PhD Statistical Genetics, King's College London	2008-2012
Temporary work	2007-2008
MSc Genetic Epidemiology, University of Sheffield	2006-2007
BSc Genetics, University of Sheffield	2003-2006
George Abbot School	1996-2003

Publications

Proceedings of the National Academy of Sciences (2018, bioRxiv 2017). Genetics of the human face: identification of large effect single gene variants

Daniel J M Crouch, Bruce Winney, Willem Paul Koppen, William J Christmas, Katarzyna Hutnik, Tammy Day, Devendra Meena, Abdelhamid Boumertit, Pirro Hysi, Ayrun Nessa, Tim D Spector, Josef Kittler, Walter F Bodmer

Journal of Theoretical Biology (2017). Statistical aspects of evolution under natural selection, with implications for the evolution of sexual reproduction.

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International Conference on Biometrics (2016). Extending Non-negative Matrix Factorisation to 3D Registered Data.

Willem P Koppen, William J Christmas, **Daniel J M Crouch**, Walter F Bodmer and Josef V Kittler

Cancer Epidemiology (2013). Incorporating non-genetic risk factors and behavioural modifications into risk prediction models for colorectal cancer.

Jane M Yarnall, **Daniel J M Crouch**, Cathryn M Lewis

European Journal of Human Genetics (2013). REGENT: a risk assessment and classification algorithm for genetic and environmental factors.

Daniel J M Crouch, Graham H M Goddard, Cathryn M Lewis

European Journal of Human Genetics (2012). Inferring separate parental admixture components in unknown DNA samples using autosomal SNPs.

Daniel J M Crouch, Michael E Weale

European Journal of Human Genetics (2010). Genes predict village of origin in rural Europe.

Colm O'Dushlaine, Ruth McQuillan, Michael E Weale, **Daniel J M Crouch**, Åsa Johansson, Yurii Aulchenko, Christopher S Franklin, Ozren Polašek, Christian Fuchsberger, Aiden Corvin, Andrew A Hicks, Veronique Vitart, Caroline Hayward, Sarah H Wild, Thomas Meitinger, Cornelia M van Duijn, Ulf Gyllensten, Alan F Wright, Harry Campbell, Peter P Pramstaller, Igor Rudan and James F Wilson

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Selected presentations

Popgroup 2019, Oxford Brookes
100 years of quantitative genetics theory and its applications, 2018, Edinburgh
Quantitative Genomics 2018, UCL
Popgroup 2018, University of Bristol
Mathematical Models in Ecology and Evolution 2017, City University
European Mathematical Genetics Meeting 2011, KCL

Public Engagement

'The genetics of human facial features', *Lost Cousins* genealogical newsletter (2017)
Cheltenham Science Festival (2014)
Science Uncovered, Natural History Museum (2013)
Big Bang Fair, Excel Centre (2013)

Teaching, supervision and management

JDRF/Wellcome Diabetes and Inflammation Lab Steering Group (Oxford, 2018-)
Day to day management of the People of the British Isles lab (Oxford, 2014-2018)
DPhil co-supervision (Oxford, 2014-2017)
Tutor in Human Sciences: statistics, evolution and genetics (Oxford, 2013-2017)
Prospective undergraduate interviews (Magdalen College Oxford, 2014)
Co-supervision of Forensic Science masters projects (King's College London, 2010-2012)

Awards and memberships

Early career speaker bursary, Fisher Memorial Trust (2018)
Galton Institute (Life Fellow)
Royal Society of Biology (Member)