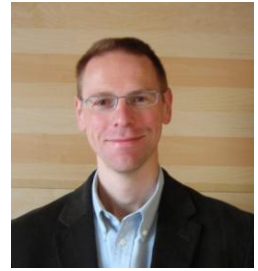


Curriculum Vitae

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Current position

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Previous positions and education

2011- Reader, School of Optometry & Vision Sciences, Cardiff University.
2006-2011 Senior Lecturer, School of Optometry & Vision Sciences, Cardiff University.
1994-2006 Lecturer, School of Optometry & Vision Sciences, Cardiff University.
1992-1994 Wellcome Trust RA, Cardiff University (Corneal extracellular matrix).
1989-1992 PhD student, Cardiff University (Corneal ion transport).
1988-1989 Pre-registration optometrist, Coventry & Warwickshire Hospital.
1985-1988 BSc. Optometry at UWIST.

Journal Publications (2009 - 2011)

Wang, L., Považay, B., Chen, Y.P., Hofer, B., Drexler, W. and **Guggenheim, J.A.** (2011). Heritability of ocular component dimensions in mice phenotyped using depth-enhanced swept source optical coherence tomography. *Experimental Eye Research* 93, 482-490.

Mackey, D.A., Hewitt, A.W., Ruddle, J.B., Vote, B., Buttery, R.G., Toomes, C., Metlapally, R., Li, Y.J., Tran-Viet, K.N., Malecaze, F., Calvas, P., Rosenberg, T., **Guggenheim, J.A.** and Young, T.L. (2011). Pediatric cataract, myopic astigmatism, familial exudative vitreoretinopathy and primary open-angle glaucoma co-segregating in a family. *Molecular Vision* 17, 2118-2128.

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Chen Y.P., Prashar A., Erichsen J.T., To C.H., Hocking P.M., and **Guggenheim J.A.** (2011) Heritability of ocular component dimensions in chickens: Genetic variants controlling susceptibility to experimentally-induced myopia and pre-treatment eye size are distinct. *Investigative Ophthalmology and Visual Science* 52, 4012-4020.

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- Metlapally R., Ki C.S., Li Y.J., Tran-Viet K.N., Abbott D., Malecaze F., Calvas P., Mackey D.A., Rosenberg T., Paget S., **Guggenheim J.A.**, and Young T.L. (2010) Genetic association of insulin-like growth factor-1 polymorphisms with high-grade myopia in an international family cohort. *Investigative Ophthalmology & Visual Science* 51: 4476-79.
- Tattersall R.J., Prashar A., Singh K.D., Tokarczuk P.F., Erichsen J.T., Hocking P.M., and **Guggenheim J.A.** (2010) Ex vivo magnetic resonance imaging of crystalline lens dimensions in chicken. *Molecular Vision* 16: 144-153.
- Wang L., Hofer B., Chen Y.-P., **Guggenheim J.A.**, Drexler W., and Povazay B. (2010) Highly reproducible swept-source dispersion encoded full-range biometry and imaging of the mouse eye. *Journal of Biomedical Optics* 15: 046004.
- Goodall N., Kisiswa L., Prashar A., Faulkner S., Tokarczuk P., Singh K., Erichsen J.T., **Guggenheim J.A.**, Halfter W., and Wride M.A. (2009) 3-Dimensional modelling of chick embryo eye development and growth using high resolution magnetic resonance imaging. *Experimental Eye Research* 89: 511-521.
- Li Y.J., **Guggenheim J.A.**, Bulusu A., Metlapally R., Abbott D., Malecaze F., Calvas P., Rosenberg T., Paget S., Creer R.C., Kirov G., Owen M.J., Zhao B., White T., Mackey D., and Young T.L. (2009) An International Collaborative Family-based Whole Genome Linkage Scan for High-grade Myopia. *Investigative Ophthalmology and Visual Science* 50: 3116-3127.
- McMahon G., Zayats T., Chen Y.-P., Prashar A., Williams C., and **Guggenheim J.A.** (2009) Season of birth, daylight hours at birth and high myopia. *Ophthalmology* 116: 468-473.
- Metlapally R., Li Y.J., Tran-Viet K.N., Abbott D., Czaja G.R., Malecaze F., Calvas P., Mackey D., Rosenberg T., Paget S., Zayats T., Owen M.J., **Guggenheim J.A.**, and Young T.L. (2009) COL1A1, COL2A1 genes and myopia susceptibility: evidence of association and suggestive linkage to the COL2A1 locus. *Investigative Ophthalmology and Visual Science* 50: 4080-6.
- Prashar A., Hocking P.M., Erichsen J.T., Fan Q., Saw S.M., and **Guggenheim J.A.** (2009) Common determinants of body size and eye size in chickens from an advanced intercross line. *Experimental Eye Research* 89: 42-48.
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- Zayats T., Young T.L., Mackey D.A., Malecaze F., Calvas P., and **Guggenheim J.A.** (2009) Quality of DNA extracted from mouthwashes. *PLoS ONE* 4: e6165.

Research Grants (2009-2011)

- BBSRC (Genome Analysis Centre grant). P.I. Dr Manir Ali (University of Leeds, U.K.)
 Title: Transcriptome analysis of the retina to identify stop and go signals for form-deprivation myopia (FDM) in chickens
- National Eye Research Centre (grant SCIAD 053). P.I. J.A. Guggenheim. Title: Genetic and environmental risk factors for myopia in the ALSPAC study cohort. PhD studentship.
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