

Adam Thomas

BSc MSc DIC

Tel. 01442 241565

Mobile 07446 783965

adam.graham.thomas@gmail.com

PROFILE

- Transport consultant with extensive experience of technical work, project management and client-facing roles on a wide range of transport planning and modelling projects.
- Expert in data analysis and presentation.
- Advanced user of Excel and Access, including programming with VBA.
- Experienced in writing reports for technical and non-technical audiences.
- Keeps up to date with latest developments and techniques in transport modelling theory and practice.

PROFESSIONAL EXPERIENCE

Data Analyst	Network Rail London	2012 – 2013
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Providing analytical support to the ongoing Asset Data Improvement Project. This contract involved:

- Validation of core asset database through development of methods for cross-system data matching. This covered signalling, track, telecoms and structures assets, all with different attributes to be considered in the matching process.
- Development of a reporting suite to measure task progress and data quality for a national survey of signalling power supply assets.
- Development of a reporting suite for a major project assessing the criticality of switches and crossings (points).
- Specification of data processing tasks to convert surveyed drainage data into records for core asset database.

Transport Consultant	Peter Davidson Consultancy Berkhamsted, Herts	2004 – 2011
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A senior position in a transport modelling consultancy. Project experience:

- Project management on development of Cheshire Sub-Regional Strategic Transport Model and forecasting applications.
- Project management on extending and using Ashford Area Transport Model for a Highways Agency motorway junction modelling project.
- Multi-modal studies in Ashford, Truro, Gloucestershire, Cheshire and Islington. Included network coding, matrix building, model calibration, validation, forecasting, economic evaluation and reporting.
- Toll road traffic and revenue forecasting studies in Nigeria.
- Stated preference research and analysis in the UK, Africa and Middle East.
- Several matrix building projects using the Department for Transport's ERICA matrix building software.

Other responsibilities:

- Identifying contract opportunities and writing tenders.
- Delivering papers and presentations at conferences and seminars.
- Software testing, documentation, demonstration and training.
- Managing Access client database.

Transport Modeller Mott MacDonald 2006
Manchester

A secondment building trip matrices for the Mersey Gateway project, covering a large study area in the north-west. This contract involved:

- Specifying data processing tasks and consolidation of several data sets.
- Specifying complex segmentation procedures.
- Training colleagues in matrix building theory and practice.

EDUCATION

2008 – 2011 Imperial College London & University College London
(part-time) **MSc Transport [Merit]**
Diploma of Imperial College (DIC)
Dissertation title: An investigation of departure time choice modelling in Islington.

2001 – 2004 University of East Anglia
BSc (Hons) Mathematics [2.2]

1994 – 2001 John F. Kennedy Secondary School, Hemel Hempstead
4 A Levels: Mathematics [A], Further Mathematics [B], Geography [B], Physics [C].
10 GCSEs: Grades A*-C.

COMPUTER SKILLS

General Software: Excel, SPSS, Access, MySQL, Word, PowerPoint, FrontPage.
Transport Modelling Software: Visual Transport Modeller, SATURN, OmniTRANS, ARCADY, PICADY, OSCADY, BIOGEME, TEMPRO, TUBA.
Matrix Building Software: ERICA, Census Matrix Tools, Rail Passenger Matrix Builder.
GIS Software: ArcGIS, MapInfo, MapPoint.
Languages: Visual Basic for Applications, SQL, HTML.

Visual Transport Modeller experience includes creative input into software development, testing, bug fixing, authoring documentation, creating demonstration material and running training courses.

ERICA experience includes leading PTRC's 'Matrix Building with DfT's ERICA' course in April 2011.

PUBLICATIONS

Davidson P, Clarke P, Thomas A & Shahin M (2011) A Comparison of Alternative Approaches to Constraining Parking Demand to Car Park Capacity in Hierarchical Logit Choice Models: Do They Work and Which Method is Best? *Proceedings of the European Transport Conference*.

Davidson P, Clarke P, Thomas A & Shahin M (2011) Clocktime Assignment: A New Mesoscopic Junction Delay Highway Assignment Approach to Continuously Assign Traffic Over the Whole Day, *Proceedings of the European Transport Conference*.

Davidson P, Thomas A, Teye-Ali C & Shahin M (2011) Developing Ashford's LDF/LDP using a simple transport model which was refined into a robust WebTAG compliant model to support the business case for a Major Scheme Bid for funding a rapid transit busway with park and ride – the full story, *Paper presented at 8th Transport Practitioners Meeting*.

Davidson P, Teye-Ali C & Thomas A (2009) Fundamentals of Discrete Choice Part 2 – the Nested Logit Model, *Traffic Engineering and Control*, 50 (2), 63-71.

Clarke P, Davidson P & Thomas A (2008) Migrating 4-Step Models to an Activity Based Modelling Framework in Practice, *Proceedings of the European Transport Conference*.

INTERESTS

Music, cinema, reading, cycling, watching Formula 1.

REFERENCES

Available on request.