

# Alan Crawford

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CEMMAP  
Institute for Fiscal Studies  
7 Ridgmount Street  
London  
WC1E 7AE

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Tel: +44 (0)7921 459 742  
Email: [a.crawford.11@ucl.ac.uk](mailto:a.crawford.11@ucl.ac.uk)  
Website: [alancrawford.github.io](http://alancrawford.github.io)

## Education

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2012-17     Ph.D. Economics, University College London  
2011-12     MRes. Economics, University College London  
2004-05     MPhil. Economics with Finance, Cambridge University  
1999-02     BSc. Economics, London School of Economics

## Research Interests

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Empirical Industrial Organisation, Computational Economics, Applied Economics

## Scholarships

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2011-2015   Advanced Quantitative Methods Scholarship, ESRC  
2011-2015   UCL Studentship, ESRC

## Professional Experience

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2011-15     Economic Advisor, SEEC  
2005-11     Consultant, RBB Economics LLP  
2002-04     Analyst, London Economics

## Teaching Experience

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2015-2016    Ph.D. Computational Methods

## Working papers

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### **“Dynamic demand estimation for storable goods”**

This paper develops a dynamic discrete-continuous demand model for storable goods - a class of goods that account for a large fraction of grocery expenditures. To estimate and solve the dynamic demand model, we use techniques from: (i) Approximate Dynamic Programming, (ii) large scale dynamic programming in economics, (iii) machine learning, and (iv) statistical computing. The benefits of this approach are three-fold. First, the dynamic demand model is compatible high-dimensional choice sets. Second, it can capture rich inter- and intra-temporal substitution patterns. Third, the dimension reduction strategies do not rely on the idiosyncratic features of the industry being studied. As a result, it can be estimated for any storable good industry. In this paper we apply the model to the UK laundry detergent sector using household level purchase data.

## Work in Progress

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**“The effect of the financial crisis on bank lending to SMEs”** joint with Ben Hemingway

**“Storability and alcohol taxation: the demand for beer”** joint with Lars Nesheim

**“Ex-post merger evaluation in industries with price dynamics”**

## References

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**Dr. Lars Nesheim**  
Dept. of Economics  
University College London  
30 Gordon Street  
London  
WC1H 0AX  
l.nesheim@ucl.ac.uk

**Prof. Dennis Kristensen**  
Dept. of Economics  
University College London  
30 Gordon Street  
London  
WC1H 0AX  
d.kristensen@ucl.ac.uk