

Anthony Matthews, PhD

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Tel: +46702186973, **Nationality:** British, **Sex:** Male

PROFESSIONAL POSITIONS

Karolinska Institutet, Sweden

April 2019 – present: Postdoctoral Research Fellow

Overview:

- Working with Professor Miguel Hernan to emulate target trials in the SWEDEHEART registry using advanced causal inference and machine learning methodologies.

London School of Hygiene and Tropical Medicine (LSHTM), United Kingdom

- 1) January 2016 – March 2019: PhD Candidate in Epidemiology – PhD title: “Adjuvant endocrine therapy use in female breast cancer survivors and the risk of cardiovascular disease”
- 2) January 2016 – March 2019: Research Fellow in Statistical Epidemiology
- 3) November 2014 – January 2016: Research Assistant in Epidemiology

Overview:

- PhD undertaken alongside full time research fellow role in which other research interests include general pharmacoepidemiology, cancer epidemiology, and cardiovascular epidemiology using large electronic health and registry records.
- Active advocate for further use of electronic health records in healthcare research.

University of North Carolina at Chapel Hill, USA

March 2018 – June 2018: Visiting Scholar in Epidemiology

Public Health England, United Kingdom

September 2014 – November 2014: Information Officer

Overview:

- Managing all travel related disease databases including the enhanced surveillance of enteric fever.
- Keeping contact with focal points in all countries worldwide so the section can be updated on any disease outbreak that could possibly affect the UK.
- Producing reports outlining the descriptive epidemiology of all travel related diseases.

Plusnet, United Kingdom

September 2012-August 2013 - Customer Insight Analyst

Overview:

- Creating and maintaining statistical models based on demographic and customer data.

- Regularly using statistical program R, in order to carry out statistical and data mining techniques including regression and survival analysis.
- Managing and manipulating data using SQL.
- Extensive use of Microsoft Excel to find customer trends.

ACADEMIC PUBLICATIONS (CHRONOLOGICAL)

1. Bromley, S.; **Matthews, A.**; Smeeth, L.; Stanway, S.; Bhaskaran, K. Risk of dementia among postmenopausal breast cancer survivors treated with aromatase inhibitors versus tamoxifen: a cohort study using primary care data from the UK. *Journal of Cancer Survivorship*, 2019. 10.1007/s11764-019-00782-w
2. **Matthews, A.**; Stanway, S.; Farmer, R.; Strongman, H.; Thomas, S.; Lyon, A.; Smeeth, L.; Bhaskaran, K. Long-term adjuvant endocrine therapy and the risk of cardiovascular disease in female breast cancer survivors: a systematic review. *BMJ*, 2018. 363:k3845
3. **Matthews, A.**; Donaldson, L.J. ; Evans, S.J. ; Langan, S.M.; Safety of medicines delivered by homecare companies. *BMJ*, 2018; 361:k2201
4. Chidwick, K.; Strongman, H.; **Matthews, A.**; Stanway, S.; Lyon, AR.; Smeeth, L.; Bhaskaran, K. Statin use in cancer survivors versus the general population: cohort study using primary care data from the UK clinical practice research datalink; *BMC Cancer*; 2018 Oct 22;18(1):1018
5. **Matthews, A.**; Herrett, E.; Gasparrini, A.; Van Staa, T.; Goldacre, B.; Smeeth, L.; Bhaskaran, K. Impact of statin related media coverage on use of statins: interrupted time series analysis with UK primary care data. *BMJ*, 2016; 353:i3283
6. **Matthews, A.**; Langan, S.M.; Douglas, I.J.; Smeeth, L.; Bhaskaran, K. Phosphodiesterase Type 5 Inhibitors and Risk of Malignant Melanoma: Matched Cohort Study Using Primary Care Data from the UK Clinical Practice Research Datalink. *PLoS Med*, 2016; 13(6):e1002037
7. **Matthews, A.**; Turkson, M.; Forbes, H.; Langan, S.M.; Smeeth, L.; Bhaskaran, K. Statin use and the risk of herpes zoster: a nested case-control study using primary care data from the UK Clinical Research Practice Datalink. *Br J Dermatol*, 2016.

RESEARCH FUNDING

- **LSHTM Public Engagement Grant, 2018** – Principal investigator - £1000
- **LSHTM Public Engagement Grant, 2017** – Co-applicant - £1000
- **British Heart Foundation, 2015** – Impact of the media interest in side effects on the initiation and cessation of statins in the UK - co-author - £79,000 (PI: Krishnan Bhaskaran)
- **Medical Research Council, UK, 2014** – Full scholarship to undertake MPhil in Epidemiology at the University of Cambridge

EDUCATION

- **January 2016 – January 2019: LSHTM** – PhD in Epidemiology
- **October 2013 – August 2014: University of Cambridge (Wolfson College)** -

Distinction in an **MPhil in Epidemiology** with a scholarship funded by the UK Medical Research Council

- **October 2009 – July 2012: University of York** - First class honours in a **BSc in Mathematics**

TEACHING

- **2017-2019** – Organiser of advanced research methods module for MSc students at LSHTM
- **2016-2019** – Main supervisor for an MSc in Epidemiology student each academic year at LSHTM
- **2015-2019** – Tutor on Basic Epidemiology, Statistical Methods in Epidemiology, and Introductory Course in Epidemiology and Medical Statistics at LSHTM

COURSES AND QUALIFICATIONS

- **May 2019** – Quantitative bias analysis, Matthew Fox – Karolinska Institutet
- **April 2019** – Causal inference, Miguel Hernan – Karolinska Institutet
- **November 2017** – Introduction to causal inferences – LSHTM
- **August 2017** – Inside Edge media training for academics
- **July 2017** – PGCILT teaching qualification and resulting Associate Fellow of the Higher Education Academy
- **May 2016** - Simulation Studies – University of Leicester
- **August 2015** - Advanced Stata – London School of Hygiene and Tropical Medicine
- **June 2015** - Clinical Epidemiology Summer School – Aarhus University

TALKS AND PRESENTATIONS

- **May 2019 – Unit of Epidemiology, Karolinska Insitutet, Sweden** – Adjuvant endocrine therapy use in female breast cancer survivors and the risk of cardiovascular disease
- **September 2018 - Global Cardio-Oncology Summit, Tampa, USA** - Assessing the association between endocrine therapies and risk of cardiovascular disease: a cohort study using the US SEER-Medicare linked database (top ten poster)
- **April 2018 – University of North Carolina Pharmacoepidemiology seminar, Chapel Hill, USA** - Cardiotoxicity of endocrine therapy treatments in post-menopausal breast cancer patients
- **September 2017 - Global Cardio-Oncology Summit, London, UK** - Assessing the association between endocrine therapies and risk of cardiovascular disease: a cohort study in the UK (poster)
- **August 2016 – ICPE international Conference, Dublin, Ireland** - Impact of the media interest in side effects on the initiation and cessation of statins in the UK
- **August 2016 – ICPE international Conference, Dublin, Ireland** - Phosphodiesterase Type 5 Inhibitors and Risk of Malignant Melanoma: Matched Cohort Study Using Primary Care Data from the UK Clinical Practice

Research Datalink (poster)

- **May 2016 – Pint of Science, London, UK** – Are your health care records revolutionising healthcare?
- **March 2016 – Farr lunchtime seminar series, London, UK** - Impact of the media interest in side effects on the initiation and cessation of statins in the UK
- **September 2015 & August 2016 – Cholesterol Treatment Trialists' Collaborators meeting, London & Rome** - Impact of the media interest in side effects on the initiation and cessation of statins in the UK
- **August 2015 – Farr Institute International Conference, St Andrews, UK** - Impact of the media interest in side effects on the initiation and cessation of statins in the UK (poster)

COMMITTEE WORK

LSHTM

- **Digital steering group** – Academic representative within a group that provides a strategic overview for all LSHTM's digital projects
- **Elements project board** – Academic representative on a project implementing the Elements research information system at LSHTM

LANGUAGES

English – Mother tongue

German – Limited working proficiency