

# PANTELIS SAMARTSIDIS

Office F25, East Forvie Building, Robinson Way, Cambridge, CB2 0SR

+44 (0) 1223760723  $\diamond$  p.samartsidis@yahoo.gr

## RESEARCH INTERESTS

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*Bayesian hierarchical modelling; causal inference; factor analysis; high-performance statistical computing; multivariate statistics; neuroimaging statistics; policy evaluation; time-series; spatial point processes; synthetic controls*

## EMPLOYMENT

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### Senior research associate

*April 2020–present*

MRC Biostatistics Unit, University of Cambridge

Line manager: Daniela De Angelis

### Investigator statistician

*September 2016–April 2020*

MRC Biostatistics Unit, University of Cambridge

Advisor: Daniela De Angelis

## EDUCATION

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### University of Warwick

*October 2012–August 2016*

### PhD in Statistics

Thesis: ‘Point process modelling of coordinate-based meta-analysis neuroimaging data’

Advisor: Thomas E. Nichols, Timothy D. Johnson

### Athens University of Economics and Business

*October 2011–July 2012*

### MSc in Statistics

Thesis: ‘An overview of methods for estimating the between-study variance-covariance matrix in random effects multivariate meta-analysis’

Advisor: Vassilis Vasdekis

Grade: 8.79/10 (First Class Honours)

### Athens University of Economics and Business

*October 2007–June 2011*

### BSc in Statistics

Grade: 8.87/10 (First Class Honours)

## PUBLICATIONS

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- **Samartsidis P**, Seaman SR, Harrison A, Alexopoulos A, Hughes GJ, Rawlinson C, Anderson C, Charlett A, Oliver I and De Angelis D (2021). Evaluating the impact of local tracing partnerships on the performance of contact tracing for COVID-19 in England. To appear in *Biostatistics*.
- Tiberi S, Crowell HL, Weber LM, **Samartsidis P** and Robinson MD (2021). *distinct*: a novel approach to differential distribution analyses. To appear in *Annals of Applied Statistics*.
- Seaman SR, **Samartsidis P**, Kall M and De Angelis D (2021). Nowcasting COVID-19 deaths in England by age and region. *Journal of the Royal Society Series C (Applied Statistics)*.
- Jugnarain DV, Halford R, Smith S, Hickman M, **Samartsidis P**. and Foster GR (2022). Role of peer support in a hepatitis C elimination programme. *Journal of Viral Hepatitis* 29 (1), 43-51.

- Laydon, DJ, Mishra S, Hinsley WR, **Samartsidis P**, Flaxman S, Gandy A, Ferguson NM and Bhatt S (2021). Modelling the impact of the tier system on SARS-CoV-2 transmission in the UK between the first and second national lockdowns. *BMJ Open* 11 (4), e050346.
- **Samartsidis P**, Martin N, De Gruttola V, De Vocht F, Hutchinson S, Lok J, Puenpatom A, Wang R, Hickman M and De Angelis D (2021). Evaluating the power of the Causal Impact method in natural experiments of HCV treatment as prevention. *Statistical Communications in Infectious Diseases* 13 (1).
- **Samartsidis P**, Seaman SR, Montagna S, Charlett A, Hickman M and De Angelis D (2020). A Bayesian multivariate factor analysis model for evaluating an intervention using observational time-series data on multiple outcomes. *Journal of the Royal Statistical Society Series A (Statistics in Society)*, 183 (4), 1437-1459.
- **Samartsidis P**, Montagna S, Laird AR, Fox PT, Johnson TD and Nichols TD (2020). Estimating the prevalence of neuroimaging experiments in a neuroimaging meta-analysis. *Research Synthesis Methods* 11 (6), 866-883.
- Hickman M *et al.* (2019). Evaluating the population impact of hepatitis C direct acting antiviral treatment as prevention for people who inject drugs (EPIToPe) a natural experiment (protocol). *BMJ Open* 9 (9), e029538.
- **Samartsidis P**, Seaman SR, Presanis AM, Hickman M and De Angelis D (2019). Assessing the causal effect of binary interventions from observational panel data with few treated units. *Statistical Science* 34 (3), 486-503.
- **Samartsidis P**, Eickhoff CR, Eickhoff SB, Wager TD, Feldman Barrett L, Atzil S, Johnson TD and Nichols TE (2019). Bayesian log-Gaussian Cox process regression: applications to meta-analysis of neuroimaging working memory studies. *Journal of the Royal Statistical Society Series C (Applied Statistics)* 68 (1), 217-234.
- **Samartsidis P**, Montagna S, Johnson TD and Nichols TE (2017). The coordinate-based meta-analysis of neuroimaging data. *Statistical Science* 32 (4), 580-599.

## PAPERS IN PREPARATION

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- Tabassum T, **Samartsidis P**, Presanis AM and De Angelis D (2022). Evaluating the impact of COVID-19 on the HIV epidemic in England.
- **Samartsidis P**, Seaman SR, Goudie R and De Angelis D (2022). On the use of cut posteriors to model effect modification in policy evaluation from panel data.
- Morris R, **Samartsidis P**, Jugnarain DV, Foster GR and De Angelis D (2021). Improving Factor Analysis Models For Causal Evaluations Using Time-Series Observational Data.
- **Samartsidis P**, Starr C, Tiberi S, Johnson TD and Nichols TE (2020). Using coordinate-based meta-analysis data to improve power in small fMRI studies.

## SUPERVISION/MENTORING

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- Rowan Morris (MPhil dissertation supervision) 2021-2022

## GRANTS

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**2020-2025:** *Named collaborator*, NIHR Health Protection Research Unit, on Behavioural Science and Evaluation (Matthew Hickman, Bristol University PI) (4 million)

## INVITED TALKS

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CMStatistics 2023, Berlin, Germany	Dec 2023
UCL Statistics Seminar series, London, UK	23 Nov 2023
University of St Andrews Statistics Seminar, St Andrews, UK	16 Nov 2022
The Graham Dunn seminar, University Center for Biostatistics, Manchester, UK	Oct 2021
CMStatistics 2019, London, UK	Dec 2019
17th Armitage Workshop, MRC Biostatistics Unit, Cambridge, UK	Nov 2019
Cambridge Methods Day, MRC Brain and Cognition Unit, Cambridge, UK	Dec 2017

## CONTRIBUTIONS IN CONFERENCES

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*O: oral presentation, P: poster presentation*

European causal inference meeting (O), Oslo, Norway	April 2023
INHSU (O), Glasgow, UK	October 2022
UK Health Security Agency Annual Conference (2O), Leeds, UK	October 2022
Greek Stochastics $\mu'$ (O), Corfu, Greece	August 2022
ISCB 42 (O), Lyon, France	July 2021
Bayesian Biostatistics (O), Lyon, France	May 2019
European Causal Inference Meeting (P), Bremen, Germany	Mar 2019
Greek Stochastics $\kappa'$ (P), Athens, Greece	Dec 2018
European Causal Inference Meeting (P), Florence, Italy	Apr 2018
Public Health England Annual Conference (O), Coventry, UK	Mar 2018
Bayesian Inference for Stochastic Processes (P), Milan, Italy	Jun 2017
Greek Stochastics $\theta'$ (O), Tinos, Greece	Jul 2016
Organisation for Human Brain Mapping (2P), Honolulu, USA	Jun 2015
Organisation for Human Brain Mapping (P), Hamburg, Germany	Jun 2014

## TRAINING

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• Participated in 30+ conferences and workshops	2012-present
• Masterclass on causal machine learning (Alan Turing Institute)	Mar 2020
• Course on causal inference (University of Pavia)	May 2018
• CUDA programming on NVIDIA GPUs (University of Oxford)	Jul 2014

## OTHER ACADEMIC ACTIVITIES

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- Served as a **referee** for *Annals of Applied Statistics* ( $\times 2$ ), *Bayesian Analysis*, *Cognitive Neuroscience* ( $\times 2$ ), *Health Economics*, *Human Brain Mapping*, *International Journal of Epidemiology*, *Journal of the Royal Statistical Society Series A (Statistics in Society)*, *Imaging Neuroscience*, *International Journal of Imaging Systems and Technology*, *Statistical Methods in Medical Research* ( $\times 2$ ), *Statistics and its Interface* (2013-present).
- Participated in **reading groups** on *causal inference*, *computational statistics*, *machine learning* and *neuroimaging statistics*, contributing 20+ presentations (2013-present).
- Co-organised the **machine learning reading group** at the MRC Biostatistics Unit, University of Cambridge (2018-Present).
- Organised the **neuroimaging statistics reading group** at the Department of Statistics, University

of Warwick (2014-2015).

## AWARDS & SCHOLARSHIPS

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- MRC Biostatistics Unit *End of Year Special Award* for contribution to department's work (*March 2018*).
- National Institute of Health (NIH) scholarship for PhD studies (*2012-2016*).
- Athens University of Economics and Business award for outstanding performance in MSc studies (*Nov 2012*).

## IT SKILLS

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- Languages: **C/C++** (advanced), **R** (advanced), **CUDA**
- Operating systems: Linux, OSX
- Other: LaTeX, SPSS (basic)

## TEACHING EXPERIENCE

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| • Statistics for Health Data Science (MPhil module, MRC Biostatistics Unit)        | 2021      |
| • Linear statistical modelling (BSc module, Warwick Statistics): Tutorials         | 2013-2015 |
| • Introduction to statistical practice (BSc module, Warwick Statistics): Tutorials | 2013-2015 |

## MISCELLANEA

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- Languages: Greek (mother tongue), English (fluent), Russian (fair)