Dimitrios Doudesis

Room SU.305, Chancellor's building,

49 Little France Crescent, Edinburgh, EH16 4SB

D.Doudesis@ed.ac.uk, d.doudesis@gmail.com

QUALIFICATIONS

- **PhD, Data Science/Precision Medicine,** The University of Edinburgh, 2018-2022
  Thesis: *Development and validation of decision support tools to improve the diagnosis and evaluation of acute cardiac conditions using statistical machine learning.*
- **MSc, Medical Statistics**, The University of Southampton, 2017-2018
  Dissertation: *Feature selection algorithms for the development of parsimonious statistical learning models.* (Distinction)
- **BSc, Statistics,** The Athens University of Economics and Business, 2013 -2017
  Grade 7.8/10. (Class rank: 2 of 118). First student in years to finish half a year earlier.

ACADEMIC HONORS AND AWARDS

- Young Investigator Award - Clinical Cardiology, Runner-up, European Society Of Cardiology [ESC], 2020
- Young Investigator Award, First prize (joined), Global Research on Acute Conditions Team [GREAT], 2020
- Best oral presenter prize (joined), Scottish Heart and Arterial Risk disease Prevention [SHARP], 2020

PROFESSIONAL AFFILIATIONS

- Fellow of Royal Statistical Society (FRSS), 2021 – Present
- Associate Fellow of Higher Education (AFHE), 2021 – Present
- Member of Association of Data Scientists (MADaSci), 2021 – Present

EMPLOYMENT HISTORY

Teaching Assistant/Tutor, The University of Edinburgh, September 2019 – Present

• Data Science in Medicine	• Machine Learning in Python	• Statistical Computing
• Introduction to Statistics	• Advanced Epidemiology	• Statistical Modelling
• Biomedical Data Science	• Statistics (Year 2)	

Research Assistant, The University of Edinburgh, April 2020 – September 2020

- *Student perspectives on Learning and Teaching Data Science in the MBChB programme* (Lead Dr Areti Manataki)

Data Analyst, PREDICTA S.A (former SPSS BI GREECE S.A), March 2017 – September 2017.

- *International Financial Reporting Standards (IFRS) 9* for a systemic bank in Greece.

FUNDING / AWARDS

SCHOLARSHIPS

- Medical Research Council Scholarship for PhD in Data Science/Precision Medicine, The University of Edinburgh (3.5 years - fees, stipend and programme costs), £85,960
- National Institute for Health Research Scholarship for MSc in Medical Statistics, The University of Southampton (1 year - fees and stipend), £23,553

GRANTS

- Medical Research Council Confidence in Concept award (MRC/CIC8/79). AI guided diagnosis of acute heart failure using the CoDE-HF algorithm. £117,500 (Co-applicant)
- Medical Research Council Confidence in Concept Translational Bursary. £1,613
- Funding award to support attendance at the DPUK datathon by the Alzheimer's Research UK, the Alan Turing Institute and Dementias Platform UK in 2019 and 2020, £1,000

SKILLS / CERTIFICATIONS

PROGRAMMING LANGUAGES

- R • R Shiny (App development) • Python • SQL • SPSS Modeler • SPSS Statistics.

LANGUAGES

- English • Greek

Online Certifications

- Building Dashboards with shinydashboard
- Building Dashboards with flexdashboard
- Building Web Applications with Shiny in R
- Deep Learning Fundamentals with Keras
- Python for Data Science
- Statistics and Probability in Data Science using Python

- Machine Learning for Data Science
- Microsoft: Programming with R for Data Science
- Microsoft: Introduction to R for Data Science
- Microsoft: Querying with Transact SQL
- DelftX: Data Analysis: Take it to the MAX
- HarvardX: Statistics and R

PUBLICATIONS

Doudesis, D., Lee, K. K., Yang, J., Wereski, R., Shah, A. S., Tsanas, A., . . . Mills, N. L. (2020). Validation of a machine learning algorithm to guide the diagnosis of myocardial infarction. [under review]

Lee, K. K., **Doudesis, D**., Anwar, M., Astengo, F., Japp, A., Tsanas, A., . . . Mills, N. (2020). N-terminal pro-B-type natriuretic peptide in the diagnosis of acute heart failure. [under review]

Lee, K. K., Bing, R., Kiang, J., Bashir, S., Spath, N., Stelzle, **Doudesis D**., . . . Joshi, S. S. (2020). Adverse health effects associated with household air pollution: a systematic review, meta-analysis, and burden estimation study. *The Lancet Global Health, 8*(11), e1427-e1434.

Lee, K. K., **Doudesis, D**., Ross, D., Bularga, A., MacKintosh, C., Koch, O., . . . Chapman, A. (2021). Diagnostic performance of the combined nasal and throat swab in patients admitted to hospital with suspected COVID-19. *BMC Infectious Diseases*. [accepted for publication]

Tibble, H., Chan, A., Mitchell, E. A., Horne, E., **Doudesis, D.**, Horne, R., . . . Tsanas, A. (2020). A data-driven typology of asthma medication adherence using cluster analysis. *Scientific Reports, 10*(1), 1-8.

Valavani, E., **Doudesis, D.**, Kourtesis, I., Chin, R. F., MacIntyre, D. J., Fletcher-Watson, S., . . . Tsanas, A. (2020). Data-driven Insights Towards Risk Assessment of Postpartum Depression.

Bularga, A., Meah, M., **Doudesis, D**., Shah, A. S., Mills, N. L., Lee, K. K., & Newby, D. E. (2020). Duration of Dual Antiplatelet Therapy in Coronary Heart Disease: A 60,000-patient Meta-analysis of Randomised Controlled Trials.[under review]