

# Dimitrios Doudesis

Room SU.305, Chancellor's building,  
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## QUALIFICATIONS

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- **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 HONOURS AND AWARDS

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

## PROFESSIONAL AFFILIATIONS

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- 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

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**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)
- Health Data Science

**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

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### 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

## SKILLS / CERTIFICATIONS

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### 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

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- 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*, 21(1), 1-11.
- 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]