Jim Smit

PHD STUDENT · INTENSIVE CARE MEDICINE · CAUSAL INFERENCE · PREDICTIVE MODELLING

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Education

Intensive Care, Erasmus University Medical Center *Rotterdam, the Netherlands*
PHD ARTIFICIAL INTELLIGENCE *2021 - present*
- Promoter: D.A.M.P.J. Gommers
- Supervisors: J. van Bommel, M.E. van Genderen, J.H. Krijthe, M.J.T. Reinders

KTH Royal institute of Technology *Stockholm, Sweden*
SEMESTER ABROAD *Spring 2019*
- Faculty of Computer Science

Delft University of Technology *Delft, the Netherlands*
MS BIOMEDICAL ENGINEERING *2018 - 2021*
- GPA: 8.2/10

Delft University of Technology *Delft, the Netherlands*
BS CLINICAL TECHNOLOGY *2015 - 2018*
- GPA: 7.68/10

Publications

PUBLISHED

Smit, JM, Krijthe JH, Tintu AN, et al. Development and validation of an early warning model for hospitalized COVID-19 patients: a multi-center retrospective cohort study. Intensive Care Med Exp 2022;10:38.

Smit, JM, Krijthe JH, Endeman H, et al. Dynamic prediction of mortality in COVID-19 patients in the intensive care unit: A retrospective multi-center cohort study. Intell Med 2022;6:100071.

Smit, JM, van Genderen ME, Reinders MJT, et al. Demystifying machine learning for mortality prediction. Crit Care 2021;25:4–5.

van de Sande D, Van Genderen ME, **Smit, JM**, et al. Developing, implementing and governing artificial intelligence in medicine: a step-by-step approach to prevent an artificial intelligence winter. BMJ Heal care informatics 2022;29.

IN PREP

Smit JM, Krijthe JH, van Bommel J, et al. Causal inference using observational intensive care unit data: a systematic review and recommendations for future practice. medRxiv 2022. DOI:10.1101/2022.10.29.22281684.

Presentations

INVITED TALKS

November 2022. *AI in the ICU: from prediction to causal inference*. Invited talk: TOPICS in ICU, Utrecht, Netherlands.

POSTER PRESENTATIONS

Smit, JM, Krijthe, JH, van Bommel, J et al. 2022. Causal inference using observational intensive care unit data. ESICM LIVES 2022 Annual Congress, Paris, France.

Smit, JM, Krijthe, JH, Tintu, AN et al. 2022. Early Warning for COVID-19. ESICM LIVES 40, Madrid, Spain.

Relevant Experience

2020	**Volunteering work**, Operation AIR (https://www.operationair.org/en)
2020	**Research Intern (Part-time)**, Clinical Chemistry Dept., Erasmus Medical Center
2019	**Intern Machine Learning engineer (full-time)**, Momo Medical