

dr. Malin Overmars  
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## Biography

dr. Malin Overmars (1995) is a postdoctoral researcher at the Central Diagnostic Laboratory of the University Medical Center Utrecht. She studied Communication and Information Sciences (BA) at the University of Groningen and Data Science (MSc) at Tilburg University. She obtained her PhD in 2024. During her PhD she studied the (re)use of big data, particularly routinely collected healthcare data, for a personalized understanding of cardiovascular disease. She employed several data science techniques such as artificial intelligence, machine learning, natural language processing and network analysis to analyse this data.

Her current research focuses on improving diagnostics using data science to further personalize cardiovascular healthcare. She particularly enjoys working in multidisciplinary teams to address cardiovascular problems, combining her expertise in Data Science and Communication and Information Sciences to effectively present complex data in an effective and understandable way for a wide range of clinical professionals.

## Employment

### Research outputs

#### Big Data, Small Vessels

Overmars, M., 29 Feb 2024, Utrecht: Utrecht University. 263 p.

#### **A cluster of blood-based protein biomarkers associated with decreased cerebral blood flow relates to future cardiovascular events in patients with cardiovascular disease**

Heart-Brain Connection Consortium, Dec 2023, In: Journal of Cerebral Blood Flow and Metabolism. 43, 12, p. 2060-2071 12 p.

#### **Sexual dimorphism in peripheral blood cell characteristics linked to recanalization success of endovascular thrombectomy in acute ischemic stroke**

Overmars, L. M., van Solinge, W. W., Ruijter, H. M. D., van der Worp, H. B., Van Es, B., Hulsbergen-Veelken, C. A. R., Biessels, G. J., Exalto, L. G. & Haitjema, S., Nov 2023, In: Journal of thrombosis and thrombolysis. 56, 4, p. 614-625 12 p.

#### **Characteristics of peripheral blood cells are independently related to major adverse cardiovascular events after carotid endarterectomy**

Overmars, L. M., Mekke, J. M., van Solinge, W. W., De Jager, S. C. A., Hulsbergen-Veelken, C. A. R., Hoefler, I. E., de Kleijn, D. P. V., de Borst, G. J., van der Laan, S. W. & Haitjema, S., Jun 2023, In: Atherosclerosis Plus. 52, p. 32-40 9 p.

#### **A Wolf in Sheep's Clothing: Reuse of Routinely Obtained Laboratory Data in Research**

Overmars, L. M., Niemantsverdriet, M. S. A., Groenhof, T. K. J., De Groot, M. C. H., Hulsbergen-Veelken, C. A. R., Van Solinge, W. W., Musson, R. E. A., Ten Berg, M. J., Hoefler, I. E. & Haitjema, S., Nov 2022, In: Journal of Medical Internet Research. 24, 11, e40516.

#### **A cluster of blood-based protein biomarkers reflecting coagulation relates to the burden of cerebral small vessel disease**

Kuipers, S., Overmars, L. M., van Es, B., de Bresser, J., Bron, E. E., Hoefler, I. E., Kappelle, L. J., Teunissen, C. E., Biessels, G. J. & Haitjema, S., 1 Jul 2022, In: Journal of Cerebral Blood Flow and Metabolism. 42, 7, p. 1282-1293 12 p.

#### **Preventing unnecessary imaging in patients suspect of coronary artery disease through machine learning of electronic health records**

Overmars, M., van Es, B., Groepenhoff, F., de Groot, M., Pasterkamp, G., den Ruijter, H. M., van Solinge, W. W., Höfer, I. & Haitjema, S., Mar 2022, In: European Heart Journal - Digital Health. 3, 1, p. 11-19 9 p.

#### **Identification and prediction of difficult-to-treat rheumatoid arthritis patients in structured and unstructured routine care data: results from a hackathon**

Messelink, M. A., Roodenrijs, N. M. T., van Es, B., Hulsbergen-Veelken, C. A. R., Jong, S., Overmars, L. M., Reteig, L. C., Tan, S. C., Tauber, T., van Laar, J. M., Welsing, P. M. J. & Haitjema, S., 8 Jul 2021, In: Arthritis Research and Therapy. 23, 1, p. 1-10 184.

### **Cardiovascular imaging of women and men visiting the outpatient clinic with chest pain or discomfort: design and rationale of the ARGUS Study**

Groepenhoff, F., Eikendal, A. L. M., Bots, S. H., van Ommen, A.-M., Overmars, L. M., Kapteijn, D., Pasterkamp, G., Reiber, J. H. C., Hautemann, D., Menken, R., Wittekoek, M. E., Hofstra, L., Onland-Moret, N. C., Haitjema, S., Hoefler, I., Leiner, T. & den Ruijter, H. M., 15 Dec 2020, In: BMJ Open. 10, 12, p. 1-7 e040712.

## **Activities**

### **Finding the Clinical Trails of Cognitive Impairment in Heart Failure by Text Mining of Letters from Routine Care**

Overmars, M. (Speaker)  
24 Jun 2024

### **8th Translational Cardiovascular Research Meeting**

Overmars, M. (Invited speaker)  
20 Jun 2024

### **AI kan diagnose en behandeling hart- en vaatziekten verbeteren**

Overmars, M. (Speaker)  
11 Mar 2024

### **Resultaat van de maand: data-onderzoeker Malin Overmars**

Overmars, M. (Speaker)  
7 Mar 2024

### **Characteristics of Peripheral Blood Cells are Independently Related to Major Adverse Cardiovascular Events after Carotid Endarterectomy**

Overmars, M. (Speaker)  
26 Aug 2023

### **Extracellular matrix organization, inflammation, and signal transduction processes relate to lower cerebral blood flow in patients with cardiovascular disease**

Overmars, M. (Speaker)  
4 May 2022

### **Hematological variables associated with degree of reperfusion after intra-arterial thrombectomy differ between men and women**

Overmars, M. (Speaker)  
4 May 2022

## **Press/Media**

### **AI kan diagnose en behandeling hart- en vaatziekten verbeteren**

Overmars, M.  
11/03/24  
1 Media contribution

### **Resultaat van de maand: data-onderzoeker Malin Overmars**

Overmars, M.  
7/03/24  
1 Media contribution