

Dr. Ardavan Khoshnood, MD PhD
Associate Professor

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Malmö, Sweden

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Research

Medicine

I hold the position of Associate Professor in Emergency Medicine at Lund University, where I have earned a PhD in clinical medicine with a specialization in Emergency Medicine. From 2018 to 2021, I conducted my Postdoctoral research at The Centre for Primary Health Care Research, Lund University. Currently, I serve as a Senior Editorial Member for BMC Emergency Medicine and as an Editorial Board Member for the European Journal of Emergency Medicine. Previously, from 2020 to 2022, I held the role of Academic Editor for the journal Medicine.

My research interests revolve around the following areas within medicine:

Prehospital care

Oxygen therapy in acute myocardial infarction

Trauma

Violent crime trauma

Criminality, psychiatric ill-health, and immigration

Criminology and Police Work

I have obtained an advanced degree in Criminology from Malmö University and currently hold a position as a guest lecturer at the Police School in Malmö. I have also an advanced degree in Police Work from Umeå University.

Additionally, I serve as an Editorial Board Member for the Journal of Investigative Psychology and Offender Profiling.

My research interests in criminology encompass the following areas:

Violent crimes

Gang criminality

Offender profiling

Criminal intelligence

Political Science and Intelligence Analysis

I hold a degree in Intelligence Analysis from Lund University and an advanced degree in Political Science from Malmö University. Previously, I also served as an Editorial Board Member for the journal Global Security and Intelligence Studies. From 2020 to 2023, I held the position of Non-Resident Associate at the Begin-Sadat Center for Strategic Studies.

My research interests in Political Science and Intelligence Analysis are as follows:

Intelligence analysis and intelligence failure

Espionage and counter-espionage

Foreign intelligence

Foreign policy of the Islamic Republic of Iran

The Islamic Revolutionary Guard Corps

The Islamic Republic of Iran's Ministry of Intelligence

Qualifications

2022 Sept 1 → ... Senior Lecturer in Emergency Medicine

2018 Oct 1 → 2021 Oct 1 Postdoctoral researcher, Center for Primary Health Care Research, Lund University, Lund, Sweden

2019 Dec 3 → 2021 Aug 31 Course Coordinator, Coordinator for the Emergency Medicine course, Medical School, Semester 11, Lund University, Lund, Sweden

Emergency Medicine, Associate Professor, Lund University, Faculty of Medicine

Award Date: 2020 Apr 8

2020 Feb 13 → ... Lecturer, Police School, Malmö University, Malmö, Sweden

Political Science, Master of Arts (60 ECT), Malmö University: Department of Global Political Studies
2016 → 2018

Award Date: 2018 Apr 26

Medical Sciences, Doctor of Philosophy, Prehospital Diagnosis and Oxygen Treatment in ST Elevation Myocardial Infarction, Lund University, Faculty of Medicine, Department of Clinical Sciences Lund, Emergency Medicine
2014 → 2017

Award Date: 2017 Nov 3

2017 → 2023 Lecturer, International Master's Program in Criminology, Malmö University, Malmö, Sweden

Intelligence Analysis, Bachelor of Science (180 ECT), Lund University: Department of Political Science
2006 → 2015

Award Date: 2015 Aug 14

Criminology, Master of Science (120 ECT), Malmö University: Department of Criminology, Faculty of Health and Society
2012 → 2014

Award Date: 2014 Jul 9

Medicine, Medical Degree (330 ECT), Lund University, Faculty of Medicine
2003 → 2011

Award Date: 2011 Sept 30

Employment

Specialist physician, Senior lecturer

Cardiovascular Research - Hypertension

Lund University

Malmö, Sweden

2022 Sept 1 → present

Associate professor, Supervisor, Specialist physician

Medicine/Emergency Medicine, Lund

Lund University

Lund, Sweden

2014 Sept 1 → present

Medical Director

MACC People AB

Arlöv, Sweden

2018 Oct 29 → present

Prizes and Distinctions

Grant

Khoshnood, A. (Recipient), 2024 Apr 17

Top-Grade Peer Review Recognition by Annals of Internal Medicine

Khoshnood, A. (Recipient), 2024 Mar 17

Grant

Khoshnood, A. (Recipient), 2023 Nov 17

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Lingman, M. (Recipient), Ekelund, U. (Recipient), Björk, J. (Recipient), Ohlsson, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2023 Oct 27

Grant

Khoshnood, A. (Recipient), 2022 Dec 22

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Ekelund, U. (Recipient), Björk, J. (Recipient), Ohlsson, M. (Recipient), Lingman, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2022 Dec 1

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Björk, J. (Recipient), Ekelund, U. (Recipient), Ohlsson, M. (Recipient), Lingman, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2022 Oct 19

Senior Consultant/Chief Physician

Khoshnood, A. (Recipient), 2022 Sept 1

Senior Lecturer

Khoshnood, A. (Recipient), 2022 Sept 1

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Lingman, M. (Recipient), Ekelund, U. (Recipient), Björk, J. (Recipient), Ohlsson, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2022 Mar 31

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Lingman, M. (Recipient), Ekelund, U. (Recipient), Björk, J. (Recipient), Ohlsson, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2021 Dec 6

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Lingman, M. (Recipient), Ekelund, U. (Recipient), Björk, J. (Recipient), Ohlsson, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2021 Oct 21

Grant

Khoshnood, A. (Recipient), 2021 May 26

Grant

Khoshnood, A. (Recipient), 2021 Jan 1

Grant

Khoshnood, A. (Recipient), 2020 Oct 28

Grant

Tolestam Heyman, E. (Recipient), Khoshnood, A. (Recipient), Lingman, M. (Recipient), Ekelund, U. (Recipient), Björk, J. (Recipient), Ohlsson, M. (Recipient) & Dahlén Holmqvist, L. (Recipient), 2020 Oct 21

Associate Professor

Khoshnood, A. (Recipient), 2020 Apr 8

Global Peer Review Awards

Khoshnood, A. (Recipient), 2019 Sept

Global Peer Review Awards

Khoshnood, A. (Recipient), 2019 Sept

Outstanding Contribution Award

Khoshnood, A. (Recipient), 2019

Outstanding Contribution in Reviewing
Khoshnood, A. (Recipient), 2018 Sept 4

Outstanding Contribution in Reviewing
Khoshnood, A. (Recipient), 2018 Sept

Best Scientific Presentation
Khoshnood, A. (Recipient), 2016 Mar 17

Nomination for the Article of the Year
Khoshnood, A. (Recipient), 2016

Best Scientific Presentation
Khoshnood, A. (Recipient), 2015 Mar 19

Best Scientific Presentation
Khoshnood, A. (Recipient), 2011 Oct 20

Grant
Khoshnood, A. (Recipient), 2008

Grant
Khoshnood, A. (Recipient), 2007

Grant
Khoshnood, A. (Recipient), 2006

Projects

ESC-TROP2: Effectiveness and Safety of a Clinical assessment and 0h/1h Troponin Rule-Out Protocol 2

Ekelund, U. (PI), Medicine/Emergency Medicine, Lund
Lundager Forberg, J. (Researcher), Emergency medicine, Medicine/Emergency Medicine, Lund, Teachers at the Medical Programme, Clinical Sciences, Helsingborg
Khoshnood, A. (Researcher), Emergency medicine
Mokhtari, A. (Researcher), Cardiology
2020/09/02 → ...

Free keywords Cardiology, Emergency Medicine, Troponin, Myocardial Infarction

Sustainable
Development Goals SDG 3 - Good Health and Well-being
(SDG)

Prehospital Triage and its Relation to Diverse Intra-Hospital Data

This study investigates the relationship between prehospital triage using the Rapid Emergency Triage and Treatment System for Adults (RETTs-A) and patient outcomes in Region Skåne, Sweden. By analyzing data from adult patients transported by ambulance to emergency departments over one year, the study aims to assess the accuracy of initial triage codes in predicting final diagnoses, interventions, and outcomes such as mortality and length of hospital stay. Findings may have implications for improving prehospital triage accuracy across Sweden.
Khoshnood, A. (PI), Emergency medicine
Keeling, R. (Researcher), Ystad Hospital
2022/11/27 → ...

Free keywords	Prehospital triage, RETTS-A, Emergency medical services, emergency medicine, Ambulance assessment, Triage accuracy
Sustainable Development Goals (SDG)	SDG 3 - Good Health and Well-being
Nature of activity type	Clinical research

The Intelligence Apparatus of the Islamic Republic of Iran

This research project aims to comprehensively map the intelligence and security organizations of the Islamic Republic of Iran, analyzing their organizational structures, activities, operations, and key functions. The findings will contribute to a series of scholarly publications, including research articles and policy reports, with the potential for further in-depth studies.

Khoshnood, A. (Researcher), Emergency medicine

Khoshnood, A. (Researcher)

2021/01/01 → ...

Free keywords	Iran, Islamic Republic of Iran, VAJA, IRGC, Islamic Revolutionary Guard Corps, Ministry of Intelligence, Terrorism, Espionage
Sustainable Development Goals (SDG)	SDG 16 - Peace, Justice and Strong Institutions

Nature of activity type Individual research project

CATSOS: Crimes Against the Security of Sweden

Sweden faces a series of challenges concerning its national security. These challenges range from espionage activities conducted by foreign powers such as Russia, China, and Iran, to domestic violent extremism associated with both right-wing and left-wing extremist groups, as well as Islamist movements. These threats can have significant repercussions for the country, not only in the form of direct attacks but also through economic losses and damaged relationships with other nations.

However, another growing concern is the dramatic increase in violent crimes, particularly shootings, which have become increasingly linked to criminal gangs. What is particularly concerning is the possibility that foreign powers may attempt to collaborate with these gangs to carry out attacks within Sweden's borders, with the gangs acting as tools or intermediaries. This fear is exacerbated by events in other countries. For instance, in the Netherlands, domestic criminal gangs have collaborated with foreign governments to carry out murders.

Despite the clear presence of these security threats and awareness of them among Swedish authorities, there is a noticeable lack of research on who is actually behind crimes against Sweden's security and acts of terrorism. This research gap becomes even more concerning in light of the changing security conditions in Europe, especially considering events such as Russia's invasion of Ukraine.

In conclusion, it is of utmost importance that Sweden takes these threats very seriously. Not only should the country proactively take measures to counteract them, but it should also invest in research and analysis to better understand and manage them. The future, security, and well-being of the nation depend on this balance.

The project focuses on individuals convicted of crimes against Sweden's security. The aim is to map and analyze this type of criminality in Sweden, starting from the fall of the Soviet Union up to the end of 2024. The goal is to describe individual characteristics and crime characteristics on a micro-level. This would generate a general picture and overview of the individuals involved in these crimes. Furthermore, we intend to examine the crimes themselves, with a focus on modus operandi and motives, to shed light on how the perpetrators operate and what drives them. Finally, we also aim to study the evidence accepted by the courts and the resulting penalties. The results of the project will not only contribute to preventive efforts concerning crimes against Sweden's security but can also be used as a tool in ongoing investigations and to develop legislation.

Khoshnood, A. (PI), Emergency medicine

Petterson, T. (Researcher), Department of Political Science

Khoshnood, A. (Researcher), Department of Human Geography

Beckman, O. (Researcher), Human Rights Studies

2024/01/12 → ...

Free keywords Security, Espionage, Terrorism, CounterIntelligence, Counter Espionage, Counter Terrorism, Sweden, Intelligence

Sustainable
Development Goals (SDG) SDG 16 - Peace, Justice and Strong Institutions, SDG 3 - Good Health and Well-being

Nature of activity type Interdisciplinary research

A forensic epidemiological approach to stab injuries to the trunk

The project aims to increase the knowledge of injury panorama and the degree of severity of injuries regarding sharp violence to the torso in order to increase the scientific basis behind forensic assessments regarding crime victims and suspected perpetrators as well as in autopsy cases.

Wingren, C. J. (PI), Forensic Medicine, EpiHealth: Epidemiology for Health

Acosta, S. (Supervisor), Vascular Diseases - Clinical Research

Khoshnood, A. (Supervisor), Emergency medicine

Berg von Linde, M. (Researcher), Forensic Medicine

2022/08/01 → ...

Free keywords Thorax, Forensic Medicine

Nature of activity type Internal collaboration (LU)

Medical Intelligence

This project, commissioned by the Swedish Armed Forces, aims to study the field of Medical Intelligence in three reports.

Khoshnood, A. (Researcher), Emergency medicine

Petterson, T. (Researcher), Department of Political Science

2021/12/01 → ...

Free keywords Medical Intelligence, MEDINT

Nature of activity type Interdisciplinary research

Collaborators Swedish Armed Forces

Resource Management in the Emergency Department by using Machine Learning

The aim of the PhD project is to design a decision support tool based on advanced statistical methods, machine learning/artificial intelligence (AI) and registered health care data in order to optimize emergency department care.

In a present project, an AI based clinical decision support for diagnosing adults with breathing difficulties in the emergency department is being modelled.

The PhD project is part of the research project AIR Lund (Artificially Intelligent use of Registers), a collaboration between Lund University, Halmstad University, Region Halland and Region Skåne. Funded by Region Halland's Scientific Advisory Board and Sparbanksstiftelsen.

Tolestam Heyman, E. (Research student), Medicine/Emergency Medicine, Lund

Khoshnood, A. (Supervisor), Emergency medicine

Ekelund, U. (Assistant supervisor), Medicine/Emergency Medicine, Lund

Björk, J. (Assistant supervisor), EPI@LUND, Surgery and public health, eSENCE: The e-Science Collaboration, Centre for Economic Demography, Division of Occupational and Environmental Medicine, Lund University, EpiHealth:

Epidemiology for Health

Ohlsson, M. (Assistant supervisor), eSENCE: The e-Science Collaboration, Artificial Intelligence in CardioThoracic Sciences (AICTS)

Lingman, M. (Assistant supervisor), Region Halland, Sahlgrenska Academy

Dahlén Holmqvist, L. (Assistant supervisor), Sahlgrenska Academy, Sahlgrenska University Hospital

2021/02/01 → 2024/11/21

Free keywords Artificial Intelligence, Machine Learning, Emergency Medicine, Emergency Care, Emergency Department

Sustainable
Development Goals (SDG) SDG 3 - Good Health and Well-being

Nature of activity type Clinical research, Interdisciplinary research, Collaboration with municipalities and county councils, Internal collaboration (LU)

ViCS: Violent Crimes in Skåne

The primary objective of this project is to map violent crimes in Skåne with respect to the victim. Several questions are of importance to this project, which can be divided into medical and criminological questions. The focus of the project will be (1) assault with kicks and blows, (2) assault with a weapon not being deemed to be knife/sharp weapon or firearm, (3) violent crimes committed with a knife/sharp weapon, (3) violent crimes committed with a firearm.

Khoshnood, A. (PI), Emergency medicine

Ekelund, U. (Assistant supervisor), Emergency medicine

Wingren, C. J. (Assistant supervisor), Forensic Medicine

Ringqvist, A. (Researcher), Emergency medicine

2021/01/01 → ...

Free keywords Violence, Violent Crimes, Injury Panorama, Cause of Death, Battery, Firearm-related Violence, Penetrating Injuries, Knife, Sharp Weapon, Emergency Medicine, Trauma, Victimology, Criminology

Sustainable
Development Goals (SDG) SDG 3 - Good Health and Well-being, SDG 5 - Gender Equality, SDG 16 - Peace, Justice and Strong Institutions

Nature of activity type Clinical research

Collaborators Region Skåne, Skåne University Hospital, Swedish National Board of Forensic Medicine, Lund, Swedish Police Authority

Children at risk - ASG, Pufendorf IAS

Why can't we find children at risk in time? Many professions who work with both children and adults, such as teachers, doctors, social workers and nurses, are obligated to report if they suspect a child is at risk. Despite this, severe abuse of children is many times only discovered after the child is killed by its parents or after a long time of neglect.

This Advanced Study Group will begin by speaking with professionals from different areas of contact with at risk children in order to raise the question, and also discuss what it means to be a child "at risk".

Kristensson Ekwall, A. (Researcher)

Khoshnood, A. (Researcher), Emergency medicine

Ekstrand Ragnar, M. (Researcher), Midwifery research - reproductive, perinatal and sexual health

Klingberg, G. (Researcher), Malmö University

Laurell, L. (Researcher), Paediatrics (Lund)

Mattsson, T. (Researcher), Department of Law

Ponnert, L. (Researcher), School of Social Work

Priebe, G. (Researcher), Department of Psychology

Ridell, K. (Researcher), Malmö University

Diary Number ASG 2020-2021

2020/01/01 → 2020/12/31

Free keywords Children, Child, Risk

Nature of activity type National collaboration, Interdisciplinary research

Collaborators Malmö University

Violent Crimes in Sweden

The aim of the project is to study violent crimes in Sweden and identify offender characteristics.

Khoshnood, A. (Researcher), Emergency medicine

Sundquist, K. (Researcher), Family Medicine and Clinical Epidemiology, EpiHealth: Epidemiology for Health

Sundquist, J. (Researcher), Family Medicine and Clinical Epidemiology, EpiHealth: Epidemiology for Health

Ohlsson, H. (Researcher), Family Medicine and Clinical Epidemiology

2018/10/01 → ...

Free keywords Violence, Violent crimes, Sweden, Deadly Violence, Rape, Firearm-related Violence

Sustainable
Development Goals
(SDG) SDG 16 - Peace, Justice and Strong Institutions

Nature of activity type Interdisciplinary research

AIR Lund: AIR Lund - Artificially Intelligent use of Registers

The demographic transition of society and new technology contribute to exponential accumulation of micro-data in healthcare registers. Novel usage of artificially intelligent decision aids, applied on the Swedish register infrastructure, holds promises for improved quality and efficiency of healthcare. Focussing on cardiometabolic diseases, AIR Lund will critically assess the added value of machine learning compared to standard statistical approaches for predictions and decision aids in three specific settings:

- 1) prevention, where we hope to identify new groups of hidden high-risk individuals and new sets of modifiable risk factors
- 2) diagnosis, where we in emergency care hope to improve general risk assessment and diagnosis of acute coronary disease
- 3) prognosis, where we hope to improve long-term predictions and identify new risk patterns that forego adverse patient outcomes and high healthcare needs

AIR Lund will also analyse central ethical and legal dilemmas related to the use of AI and machine learning in clinical practice, and build on these results in our methodological work on fairness and transparency of AI tools.

AIR Lund represents a unique research environment at five different faculties at Lund University that collaborate closely with applied intelligent systems research at Halmstad University. We expect to bring substantial interdisciplinary novelty into register-based research, and at the same time to open up the Swedish register infrastructure to AI research.

Björk, J. (Researcher), Surgery and public health, eSSENCE: The e-Science Collaboration, Centre for Economic Demography, Division of Occupational and Environmental Medicine, Lund University, EpiHealth: Epidemiology for Health, LU Profile Area: Nature-based future solutions, Environmental Epidemiology

Ohlsson, M. (Researcher), eSSENCE: The e-Science Collaboration, Artificial Intelligence in CardioThoracic Sciences (AICTS)

Melander, O. (Researcher), EXODIAB: Excellence of Diabetes Research in Sweden, EpiHealth: Epidemiology for Health, Cardiovascular Research - Hypertension

Ekelund, U. (Researcher), Medicine/Emergency Medicine, Lund

Larsson, S. (Researcher), Department of Technology and Society, AI and Society, Real Estate Science

Mattsson, T. (Researcher), Department of Law

Mokhtari, A. (Researcher), Medicine/Emergency Medicine, Lund

de Vries, K. (Researcher), Department of Sociology of Law

Nilsson, A. (Researcher), Environmental Epidemiology, Centre for Economic Demography

Lingman, M. (Researcher), Region Halland

Pashami, S. (Researcher), Region Halland

Ottosson, F. (Researcher), Cardiovascular Research - Hypertension, EXODIAB: Excellence of Diabetes Research in Sweden

Larsson, A. E. (Administrator), Work-related musculoskeletal disorders, Division of Occupational and Environmental Medicine, Lund University

Henriksen, A. (Researcher), Department of Technology and Society

Högberg, C. (Research student), Department of Technology and Society, AI and Society, Real Estate Science, Division of ALM, Digital Cultures and Publishing Studies, Libraries of the Joint Faculties of Humanities and Theology

Olsson, M. (Research student), Breathlessness and chronic respiratory failure, Respiratory Medicine, Allergology, and Palliative Medicine

Nyström, A. (Research student), EPI@LUND, Division of Occupational and Environmental Medicine, Lund University

Olsson de Capretz, P. (Research student), Medicine/Emergency Medicine, Lund

Björkelund, A. (Researcher)

Nilsson, A. (Researcher), EPI@LUND, EpiHealth: Epidemiology for Health, Centre for Economic Demography

Åkesson, A. (Research student), EPI@LUND, Division of Occupational and Environmental Medicine, Lund University

Nordberg, A. (Researcher), Department of Law

Ekström, M. (Researcher), Breathlessness and chronic respiratory failure, EpiHealth: Epidemiology for Health, Respiratory Medicine, Allergology, and Palliative Medicine

Tolestam Heyman, E. (Research student), Medicine/Emergency Medicine, Lund

Lundager Forberg, J. (Researcher), Clinical Sciences, Helsingborg

Berg, J. (Research student), Emergency medicine

Johansson, A. (Research student)

Amirahmadi, A. (Research student), Halmstad University

Eriksson, T. (Research student), EPI@LUND
Khoshnood, A. (Researcher), Emergency medicine
Mäkinen, M. (Research student), Health Law, Department of Law
Holmberg, P. (Researcher), Health Law, Department of Law
Nilsson, T. N. (Research student), Medicine/Emergency Medicine, Lund, Emergency medicine
2018/07/01 → 2025/12/31

Nature of activity type Interdisciplinary research, Clinical research

SOCGER: Prehospital Oxygen Treatment in ST Elevation Myocardial Infarction: The Supplemental Oxygen in Catheterized Coronary Emergency Reperfusion (SOCGER) Study

Studies suggest that O₂ therapy may be harmful in STEMI patients. The SOCGER project aim to evaluate the effects of O₂ therapy in STEMI patients.

Khoshnood, A. (Researcher), Medicine/Emergency Medicine, Lund
Ekelund, U. (PI), Experimental Vascular Research, Medicine/Emergency Medicine, Lund
Carlsson, M. (Assistant supervisor), Lund Cardiac MR Group, Clinical Physiology (Lund)
Lundager Forberg, J. (Assistant supervisor), Clinical Sciences, Helsingborg
2014/11/04 → 2018/02/13

Free keywords STEMI, ST Elevation Myocardial Infarction, Oxygen, Oxygen Therapy

Sustainable
Development Goals SDG 3 - Good Health and Well-being
(SDG)

Nature of activity type Clinical research