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## Univ.-Prof. Dr. med. Felix Nensa

Auf'm Stöcken 7  
45257 Essen, Germany

+49 171 9585140  
[felix.nensa@uk-essen.de](mailto:felix.nensa@uk-essen.de)

Birthday / place of birth: 09.08.1980 / Herne, Germany  
Nationality: German  
Marital status: Married, two children

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## Work Experience

### University Hospital Essen, Institute for Artificial Intelligence in Medicine / Full Professor

March 2022 - present, Essen, Germany

Radiology with focus on AI

### University Hospital Essen, Department of Diagnostic and Interventional Radiology and Neuroradiology / Senior consultant

March 2022 - present, Essen, Germany

Thoracic imaging and digitalization

### University Hospital Essen, Department of Diagnostic and Interventional Radiology and Neuroradiology / Groupleader Artificial Intelligence and Smart Hospital Information Platform

January 2019 - present, Essen, Germany

Heading the working group for artificial intelligence in radiology and the development of the smart hospital information platform (SHIP).

### University Hospital Essen, Department of Diagnostic and Interventional Radiology and Neuroradiology / Senior radiologist

January 2016 - December 2018, Essen, Germany

Responsible for the specialized lung clinic "Ruhrlandklinik" with special focus on interstitial lung diseases.

### University Hospital Essen, Department of Diagnostic and Interventional Radiology and Neuroradiology / Attending radiologist

May 2016 - December 2016, Essen, Germany

Focus on chest imaging.

### University Hospital Essen, Department of Diagnostic and Interventional Radiology and Neuroradiology / Resident

April 2011 - April 2016, Essen, Germany

Residency in radiology including a 4 month job rotation in the Clinic for

Nuclear Medicine. Focus on cardiac imaging, oncologic imaging and hybrid imaging.

### **zeec GmbH / Founder & CTO**

March 2007 - March 2011, Cologne, Germany

zeec GmbH company had developed a white-label social media and multi-media sharing platform (J2EE, XSLT, HTML/CSS/JS) for B2B customers. Major clients included: Deutsche Telekom Group and the German Soccer Association (DFB).

### **Institute of Neurophysiology, Ruhr-University / Student Research Assistant**

May 2005 - July 2006, Bochum, Germany

Analysis of the influence of stochastic resonance on signal transmission in the CNS with simulated neural networks of Hodgkin-Huxley models (Matlab/Simulink, C).

### **Institute of Physiology, Ruhr-University / Student Research Assistant**

September 2003 - April 2005, Bochum, Germany

Analysis of the electrical properties of gap junctions in the locus coeruleus of the rat by modelling transfer functions (VC++, LabVIEW).

### **Freelance Software Developer**

October 2000 - February 2007, Bochum, Germany

Full stack web development (J2EE, PHP, HTML/CSS/JS, Flash). Clients include Aral AG, Daimler AG, Telefónica AG, EMI Group (now Universal Music Group) and many more.

### **RIDTELC, Augusta Hospital / Student Research Assistant**

January 2000 - October 2010, Bochum, Germany

Research institute for diagnosis and treatment of early lung cancer: System administration, statistic analyses, designing PowerPoint presentations, lab work, continued development and debugging of a research database (VBA). Main tasks was the from scratch development and maintenance of a GUI application for the assessment of automated sputum cytometry data (Oncometrics Imaging Corporation) including reverse engineering of file formats and simple machine learning tasks like decision trees and LDA (written in Java SE).

This included my year of civilian service (June 2000 - July 2001).

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## Education

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### **University Hospital Essen, Supervisor: Prof. Peter Horn /**

Certified medical qualification: Medical Informatics

April 2020 - Sep 2021, Essen, Germany

Project work: AutoPiLoT

### **University Hospital Essen, Faculty of medicine / Habilitation in radiology ("Priv. Doz.")**

May 2012 - July 2017, Essen, Germany

Title of the postdoctoral thesis: "PET/MR imaging of the heart."

### **German Society of Radiology / Scientists for the future**

October 2012 - March 2013, Heidelberg/Aachen/Lübeck, Germany

Participant in the second round of the program "Scientist for the future"  
("Forscher für die Zukunft") of the German Society of Radiology (DRG).

### **University Hospital Essen, Department of Diagnostic and Interventional Radiology and Neuroradiology / Board certified Radiologist**

April 2011 - May 2016, Essen, Germany

Residency in radiology.

### **Ruhr-University Bochum, Institute for Prevention and Occupational Medicine / Doctor of medicine ("Dr. med.")**

Jan 2009 - July 2013, Bochum, Germany

Title of the doctoral thesis: "Comparison of Spirometry and  
Bodyplethysmography as Detection Methods of Bronchoconstriction in  
the Non-Specific Provocation Test with Methacholine."

### **Université Louis-Pasteur, Faculty of medicine**

September 2005 - July 2006, Strasbourg, France

Two semesters abroad with a scholarship from the Université  
franco-allemande (UFA).

### **Ruhr-University Bochum, Faculty of medicine / State examination**

October 2001 - November 2007, Bochum, Germany

### **FernUniversität, Faculty of computer science**

April 2001 - July 2004, Hagen, Germany

Distance education university. Passed all exams until but not including  
the intermediate diploma. Aborted due to lack of time.

### **Haranni Gymnasium / High school graduation**

September 1991 - May 2000, Herne, Germany

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## Awards

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Best paper award 2020, The EANM Springer Prize for *Rischpler C, Nekolla SG, Heusch G, Umutlu L, Rassaf T, Heusch P, Herrmann K, Nensa F. Cardiac PET/MRI-an update. Eur J Hybrid Imaging. 2019.*

RöFo Reviewer Award 2020, Reviewer of the Year 2020. For high-quality and timely review of manuscripts for the journal RöFo.

Thieme Management Award 2018 in the category „Senkrechtstarter“ of the cdgw (Club der Gesundheitswirtschaft)

Alavi-Mandell Award 2016 for publication: Integrated 18F-FDG PET/MR Imaging in the Assessment of Cardiac Masses: A Pilot Study. *J Nucl Med. 2015;56:255–260.*

RSNA Travel Award for paper: Hybrid Cardiac 18F-FDG PET/MRI in Patients with Suspected Myocarditis. Paper presented at: RSNA 101st Scientific Assembly and Annual Meeting, 2015 Nov 29 - Dec 4, Chicago, Illinois, USA

Summa Cum Laude Merit Award for paper: Hybrid PET/MRI Imaging of the Heart: Feasibility and Initial Results. Paper presented at ISMRM 21th Annual Meeting & Exhibition, 2013 Apr 20-26, Salt Lake City, Utah, USA

Research award 2013 from the foundation of the university medicine Essen for the research project: “Acute Myocardial Infarction: Delineation of the area at risk using PET/MR imaging.”

Winner of the global Sony Ericsson contest "Turn your code into cash" in the year 2002 with a location-based mobile dating service optimized for the Sony Ericsson P800.

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## Patents

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EU Patent EP18160372.1A: "Healthcare Network", Mar 07, 2018. Status: Published.

EU Patent US16/691,008: “Integrated medical image visualization and exploration”, Sep 23, 2019. Status: Published

10 2021 203 234.6: “PINA - Patient Information Notification Assistant”, Filing date: 30 Mar 2021, Status: Pending

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## Other

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Editorial board member and Section Editor for "Artificial Intelligence and Machine Learning", European Journal of Radiology

Co-speaker and Principal Investigator of the DFG funded international research training group entitled "(Graduiertenkolleg) Wissens- und datenbasierte Personalisierung von Medizin am Point of Care" (<https://wispermed.org>).

Board member Working Group on Information Technology of the German Radiological Society

Appointment to the "30 under 40" expert network on "digital health" of the Bertelsmann-Stiftung

Board member Health-i Think-Tank (<http://health-i.de/de/board/>)

Co-founder of the Emerging Technologies in Medicine (<https://etim.uk-essen.de>) congress.

Mentor at European Union Contest for Young Scientists 2019 (Category Mathematics/Informatics)

Advisory Board member, EMEA Edison Accelerator Programme, GE Healthcare

Invited talk: "From Bits to Bedside: Machine Learning at the Point-of-Care", NVIDIA GTC, April 13th, 2021



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Felix Nensa