

Curriculum Vitae

Personal data

Name: Univ.-Prof. Dr. med. Christiane Kuhl

Postal Address: Department of Diagnostic and Interventional Radiology, University Hospital Aachen (UKA), RWTH Aachen
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52074 Aachen
Germany



Current position:

Chair of Diagnostic and Interventional Radiology, University of Aachen RWTH,
Director of the Department of Diagnostic and Interventional Radiology,
University Hospital Aachen, UKA

Professional Development

2010 – to date Director and Department Chair, Department of Diagnostic and Interventional Radiology, RWTH Aachen

2010 DEGIR certificate stage 4 (DEGIR, German Society of Interventional Radiology): Personal license to teach the entire range of interventional procedures.

2009 Call to the position of Full Professor and Department Chair, Department of Diagnostic and Interventional Radiology, University of Aachen, RWTH

2009 – 2010 Vice president, University of Bonn Rheinische Friedrich-Wilhelms-Universität Bonn (Prorektorin), International Affairs

2004 – 2010 Vice Chairman, Department of Radiology, University of Bonn

2004 Full Professor of Radiology, Endowed Chair for Diagnostic Imaging in Oncology and Interventional Oncology, University of Bonn, Department of Radiology

1999 – 2004 Assistant professor of Radiology, Department of Radiology, University of Bonn

Habilitation

2000 „Venia legendi“ (professorship) for Radiology

Doctoral Thesis

1993 awarded the academic degree of „doctor medicinae“ by the University of Bonn through the thesis „³¹P-MR-Spectroscopy: Systematic Development of the Method and Clinical Evaluation in Patients with Mitochondrial Encephalomyopathies“ („summa cum laude“)

Clinical training

2002 Board certification in Neuroradiology
2001 – 2002 Clinical training in Neuroradiological Interventions at the Department of Neuroradiology, Hospital of Duisburg, Germany
1999 Board certification in Radiology
1996 – 1997 Residency in Neurosurgery, Department of Neurosurgery, University of Bonn
1992 – 1999 Residency in Radiology, Department of Radiology, University of Bonn
01.07.1993 License as physician (Voll-Approbation)
01.01.1992 Temporary license („Arzt im Praktikum“)

University education

1985 – 1991 University degree: State Examination in Medicine, University of Bonn

Awards

2020 Outstanding Teacher Award, Intl Society for Magnetic Resonance in Medicine
2019 Member of Leopoldina (National Academy of Sciences)
2018 Gold Medal, European Society of Breast Imaging
2018 Impact Award of the National Consortium of Breast Centers
2016 Named “RWTH Fellow”
2015 Gold Medal of the International Society of Magnetic Resonance in Medicine
2008 Wachsmann-Preis (Award for Educational Excellence) of the German Radiological Society)
2007 Outstanding Teacher Award, Intl Society for Magnetic Resonance in Medicine
2004, 2006, 2008 “Best of ASCO” Award, American Society of Clinical Oncology
2006 Honorary Fellow, Breast Imaging Section, Royal College of Radiologist, UK
2006 European Magnetic Resonance Award
2004 ACRIN (American College of Radiology Imaging Network) Award
2003 Award of the German Radiological Society (Holthusen-Ring)
2000, 2001, 2002, 2011, 2015, 2018 RADIOLOGY Editor's Recognition Award
2000 Award of the Ministry of Education and Research (BMBF)
2000 Highlight-Award of the German Radiological Society

Published research

Number of published original articles: 329
Sum of the Times Cited: 22,269 (Google Scholar)
Average Citations per Item: 29.07
h-index (Google scholar): 65
i10-index: 196

Membership in Professional Societies

- German Radiological Society (Deutsche Röntgengesellschaft, DRG)
- Radiological Society of North America (RSNA)
- American College of Radiology (ACR)
- International Society of Magnetic Resonance in Medicine (ISMRM)
- Society of Cardiovascular and Interventional Radiology (CIRSE)
- German Society of Interventional Radiology (DEGIR)
- European Society of Breast Imaging (EUSOBI)
- ASCO (American Society of Clinical Oncology)
- Society of Interventional Radiology (SIR)
- President of the Radiological Society of Northrhine-Westphalia 2013-2015

Further memberships

- Working Group on Breast MRI des United States Health Service's Office on Women's Health, American College of Radiology, Commission on Standards and Accreditation
- BI-RADS-Committee des American College of Radiology
- Medizin-Ausschuss der Strahlenschutzkommission des Deutschen Bundestags (2005-2010)
- Board of Trustees der International Society for Magnetic Resonance in Medicine (2000-2004)
- Scientific Advisory Board of the German Mammographic Screening Program (2007-2009)
- Breast Committee des American College of Radiology Imaging Network (ACRIN)
- Working Group on Prostate MRI
- Speaker of the IOP "Imaging and Image Guided Treatment" of the CIO^{ABCD} (Comprehensive Cancer Center of the universities of Aachen, Bonn, Cologne and Düsseldorf)

Peer Reviewer

- RöFo, European Radiology, Journal of Magnetic Resonance Imaging (JMRI), Magnetic Resonance Imaging (MRM)
- Cancer
- Radiology
- Journal of the National Cancer Institute (JNCI)
- Journal of Clinical Oncology (JCO)
- NATURE (New Technology Section)
- The Lancet, Lancet Oncology
- Journal of the American Medical Association (JAMA) and JAMA Oncology

Editorial Board Duties

- Scientific Editorial Board, European Radiology (2000)
- Scientific Editorial Board, RöFo
- Associate Editor, Radiology, 2003-2008
- Consultant to the Editor, Radiology, 2006 - 2008
- Guest Editor, Radiological Clinics of North America: Breast MR Imaging
- Associate Editor, The Breast Journal
- Associate Editor, Diagnostic Imaging International
- Editorial Board, Breast Diseases
- Deputy Editor, Journal of Magnetic Resonance Imaging
- Deputy Editor, Breast Cancer Research

Other Qualifications

- Trainer for Interventional Radiology (German Society for Interventional Radiology)
- GCP-Training

Invited Lectures (Visiting professorship and major meetings)

Visiting professorships:

- University of Hong Kong, Hong Kong, China, 2010
- Harvard University, BIDMC, Boston, MA, USA, 2007
- Catholic University of Chile, Santiago de Chile, Chile, 2005
- University of Montreal, Canada, 2004

Named Lectures:

- Plenary lecturer, ISMRM 2004 and 2013
- 14th Annual Henry M. Selby Lecture, Memorial Sloan Kettering Cancer Center, NY, 2012
- Keynote lecture, Australasian Society of Breast Diseases, 2011
- Keynote lecture, Braslian Congress of Radiology, 2010
- Keynote lecture, European Society of Breast Imaging, 2010
- The European Surgical Oncology Lecture, London, November 2008
- Peter E. Peters Honorary Lecture, ECR Wien, 2008

Principal Investigator of Clinical Trials and Funded Research Projects

- 2020-2026 – PI and Consortium Leader, ABBREMAS (Abbreviated Breast MRI for Risk-Adjusted Screening)
- 2017-2019 – Co-PI of the ECOG/ACRIN sponsored International multicenter Trial “EA1141”
- 2015-2019 – Scientific Coordinator and PI, EU Horizon2020 Project “HYPMED”
- 2015-2017 – Principal Investigator, Photon Counting Breast CT study, BMBF and DFG
- 2003-2007 – Principal Site Investigator of the ACRIN/ACR study "Contralateral Breast Cancer Screening with MRI" (Study 6667)
- 2002-2007 – Principal Investigator of the multicenter trial "EVA" ("Multi-modal Screening of Familial Breast Cancer"), German Cancer Aid (Deutsche Krebshilfe)

- 2000-2003 – Principal Site Investigator of the Multicenter Trial "High-Risk Breast Cancer MR and US Screening Trial" (Study 6884), sponsored by the American College of Radiology Imaging Network
- 2000-2005 – Principal Investigator of the BMBF-sponsored trial of the consortium „Technical Development and Clinical Evaluation of Magnetic Resonance Elastography of Breast Cancer“
- 2000-2004 – Principal Investigator of the multicenter trial „Gadomer17“
- 1998-2002 – Principal Site Investigator of the multicenter trial "International Breast MRI Consortium" (Study 6883), National Institutes of Health/National Cancer Institute

List of 10 most important publications

- 1) Comstock CE, Gatsonis C, Newstead G, Snyder BS, Gareen IF, Bergin F, Rahbar H, Sung JS, Jacobs C, Harvey JA, Nicholson MH, Ward RC, Holt J, Prather A, Miller KD, Schnall MD, and **Kuhl CK**. Comparison of Abbreviated Breast MRI vs Digital Breast Tomosynthesis for Breast Cancer Detection Among Women with Dense Breasts Undergoing Screening. *Journal of the American Medical Association JAMA* 2020 (accepted for publication)
- 2) **Kuhl CK**. Predict, Then Act: Moving Toward Tailored Prevention. *J Clin Oncol*. 2019;37:943-945
- 3) **Kuhl CK**, Schrading S, Strobel K, Schild HH, Hilgers RD, and Bieling HB. Abbreviated breast magnetic resonance imaging (MRI): first postcontrast subtracted images and maximum-intensity projection-a novel approach to breast cancer screening with MRI. *J Clin Oncol*. 2014 Aug 1;32(22):2304-10.
- 4) **Kuhl C**, Weigel S, Schrading S et al. Prospective multicenter cohort study to refine management recommendations for women at elevated familial risk of breast cancer: the EVA trial. *J Clin Oncol*. 2010;28(9):1450-7
- 5) **Kuhl CK**. The “coming of age” of nonmammographic screening for breast cancer. *JAMA*. 2008;299:2203-5.
- 6) **Kuhl CK**, Schrading S, Bieling HB, Wardelmann E, Leutner CC, Koenig R, Kuhn W, Schild HH. MRI for diagnosis of pure ductal carcinoma in situ: a prospective observational study. *Lancet*. 2007;370:485-92.
- 7) Lehman C, Gatsonis K, **Kuhl CK** et al. Breast MRI of the contralateral breast in patients with a recent diagnosis of breast cancer. *N Engl J Med*. 2007;356:1295-303.
- 8) Kuhl C. The current status of breast MR imaging. Part I. Choice of technique, image interpretation, diagnostic accuracy, and transfer to clinical practice. *Radiology*. 2007;244:356-78.
- 9) **Kuhl CK**, Schrading S, Leutner CC et al. Mammography, breast ultrasound, and magnetic resonance imaging for surveillance of women at high familial risk for breast cancer. *J Clin Oncol*. 2005 20;23:8469-76.
- 10) **Kuhl CK**, Mielcareck P, Klaschik S, Leutner C, Wardelmann E, Gieseke J, Schild HH. Dynamic breast MR imaging: are signal intensity time course data useful for differential diagnosis of enhancing lesions? *Radiology*. 1999 Apr;211(1):101-10.

Overview on peer-reviewed grants and funded projects of the past 5 years

Title	sponsor	Date	Funding
ABBREMAS	BMBF	2020 – 2026	16.000.000 €
ECOG/ACRIN EA1141	NCI (USA)	2017 2019	5.000.000 €
EU project 667211 "HYPMED"	EU Horizon 2020	2016 – 2019	5.861.957 €
Development and clinical implementation of photon counting breast CT	BMBF	2016 – 2017	4.849.149 €
Photon Counting Breast CT	BMBF	2017 – 2018	480.000 €
Evaluation of new approaches for diagnosis of breast cancer	DFG	2016 – 2017	315.150 €
Large animal study on selective internal radiotherapy vs. portal vein embolisation	DKH	2015 – 2017	161.203 €
In.NRW - Hybrid Therapy	Land NRW	2010 – 2014	748.125 €
In.NRW multifunctional Image Guided Therapy	Land NRW	2013 – 2015	448.798 €

Biographical sketch

Prof. Dr. med. Christiane Katharina Kuhl was born in Bonn, Germany, in 1966. She studied medicine at the University of Bonn, Germany, and did her Ph.D. thesis on 31P MR spectroscopy in patients with mitochondrial encephalomyopathies with “summa cum laude” in 1992. She completed her residency training at the Department of Radiology, University of Bonn, in 1998. She is a board certified radiologist, neuroradiologist and interventional radiologist. She is certified and licensed to training the entire field of Interventional Radiology. She became associate professor in 1999, and full professor of Radiology and vice chairman of the Department of Radiology of Bonn University in 2004. In 2008, she was elected as member of the presidency of Bonn University (Pro-Rektor). In 2010, she joined the Technical University of Aachen (RWTH) to become Chairman and Director of the Department of Diagnostic and Interventional Radiology at the RWTH University Hospital Aachen. RWTH belongs to one of the few “excellence universities” in Germany. Prof. Kuhl is an internationally recognized expert in the field of breast cancer imaging with a special emphasis in breast MRI. She has a long-standing track record in the diagnosis as well as the interventional treatment of cancer, and authored or co-authored well over 1000 papers and conference abstracts, including several highly-cited landmark papers on the use of MR imaging for breast cancer diagnosis. She served as Principal Investigator of several large single- and multi-institutional clinical trials studies. She has received numerous awards, including e.g. the Mare-Curie-Ring (Holthusen Ring) of the German Roentgen Ray Society, the European Magnetic Resonance Award, the American College of Radiology Imaging Network (ACRIN) award, the Gold Medal of the ISMRM and of the European Society of Breast Imaging. She has been invited to lecture as Visiting Professor in numerous prestigious international institutions, and was invited to hold numerous named lectures at international conferences. She served as member of the working Group on Breast MRI of the United States Health Service's Office on Women's Health, Commission on Standards and Accreditation, and on the BI-RADS-Committee of the ACR. She has been elected as member of Leopoldina, the National Academy of Sciences of Germany. She is Honorary Fellow of the Royal College of Radiologists, and member of a number of international societies such as Radiological Society of North America (RSNA), the American Society of Clinical Oncology (ASCO), the American College of Radiology (ACR), the Society of Breast Imaging (SBI), the European Society of Breast Imaging (EUSOBI), the Society of Cardiovascular and Interventional Radiology (CIRSE).