

# Philipp Emerich

Contact:

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Research Interests

Publications

Projects

CV

## Research Interests

- Relaxation properties of media with heterogeneous susceptibility distribution

## Publications

### Journal Papers

- P. Gall, P. Emerich, B.F. Kjølby, E. Kellner, I. Mader, V.G. Kiselev, On the design of filters for Fourier and oSVD-based deconvolution in bolus tracking perfusion MRI, MAGMA 2010 Jun;23(3):187-95. Epub 2010 May 29

### Conference abstracts

- P. Emerich, P. Gall, B. F. Kjølby, E. Kellner, I. Mader, and V. Kiselev, Design of a data driven deconvolution filter for DSC perfusion, ISMRM 2010, ISMRM, May 2010
- P. Emerich, J. Weigel, D. Paul, D. Steinmann, H. Runck, C. A. Stahl, J. Guttmann, and D. von Elverfeldt, Evaluation of ex vivo rat lung volume changes using high resolution 19 F MRI, ESMRMB 2008, ESMRMB, October 2008
- D. von Elverfeldt, P. Emerich, J. Weigel, D. Paul, D. Steinmann, M. Schneider, H. Runck, C. Stahl, J. Guttmann, and J. Leupold, SSFP based high resolution 19 F imaging of the rat lung ex vivo with FC84, ISMRM 2008, ISMRM, May 2008

### Diploma Thesis

- "19 F Magnetresonanztomographie: Präklinische Lungenbildgebung mittels Perfluorkohlenstoff", Universität Konstanz, Physics Department, October 2008

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## Projects

- relaxation mechanism and modelling
- some work on perfusion

## CV

02/2009 to present

work on PhD thesis at the  
[University Hospital Freiburg](#)  
,  
[Medical Physics](#)  
on relaxation properties of tissue and blood

10/2007 to 10/2008

Diplomathesis at the  
[University Hospital Freiburg](#)  
,  
[Medical Physics](#)

on high resolution  $^{19}\text{F}$  MRI of perfluorocarbon filled rat lungs

Studies in Physics at the  
Physics Department  
,  
Universität Konstanz  
.

10/2002 to 10/2008

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