

# Frederik Testud

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[Research Interests](#)

[Projects](#)

[Publications](#)

[CV](#)

## Research Interests

- EPI artefacts
- Magnetic Field Estimation
- Magnetic Field Monitoring

[Back to top](#)

## Projects

- Dynamic Distortion Correction
- Dynamic Shim Correction
- Prediction\Optimization of EPI from field map
- Magnetic Field Monitoring System

[Back to top](#)

## Publications

### Diploma Thesis

- Direkte und Schnelle Bestimmung Der Magnetfeldverteilung Aus Rohdaten Der Echo Planar Sequenz

### Papers

- F. Testud, D. Splitthoff, O. Speck, J. Hennig and M. Zaitsev Direct Magnetic Field Estimation Based on Echo Planar Raw Data IEEE Trans Med Imaging, 2010, 29, 1401-1411

### Conference Abstracts

- F. Testud, M. Zaitsev, O. Speck, J. Hennig Magnetfeldberechnung aus EPI Rohdaten Proceedings of the Annual Meeting of the German Chapter of ISMRM 2006, Jena, Germany, #4
- F. Testud, O. Speck, J. Hennig, M. Zaitsev FRED-GMC: Filtering of Raw EPI Data for Gradient Map Calculations Proceedings of the Joint Annual Meeting of the ISMRM-ESMRMB 2007, Berlin, Germany, #1842
- F. Testud, J. Hennig, M. Zaitsev Fast Susceptibility Weighted Imaging: FSWI Proceedings of the 16th Annual Meeting ISMRM 2008, Toronto, Ontario, Canada, #3055
- F. Testud, M. Zaitsev B0 Field Monitoring by Air-Matched Phantoms Proceedings of the 17th Annual Meeting ISMRM 2009, Honolulu, Hawai'i, USA, #2791
- F. Testud, O. Speck, J. Hennig, M. Zaitsev Direkte Bestimmung der Magnetfeldverteilung aus Rohdaten der Echoplanar Sequenz Proceedings of the Annual Meeting of the German Chapter of ISMRM 2009, Basel, Switzerland, V01

- F. Testud, R. Bögle, O. Speck, J. Hennig, M. Zaitsev Analysis on the effect of breathing in GR EPI data based on the image phase and on B0 gradient maps Current Concepts of Motion Correction for MRI & MRS, ISMRM Workshop 2010, Kitzbühel, Austria
- F. Testud, I. Dragonu, D. Splitthoff, O. Speck, J. Hennig and M. Zaitsev Direct and Independent Estimation of B0 gradient maps based on EPI Raw Data Proceedings of the Joint Annual Meeting ISMRM-ESMRMB 2010, Stockholm, Sweden, #3069
- Transmit k-space Calibration using Magnetic Field Probes F. Testud, C. Barmet, M. Haas, D. Kokorin, J. Hennig, K. Pruessmann, and M. Zaitsev Proceedings of the 19th Annual Meeting of the ISMRM 2011, Montréal, Québec, Canada, #1847
- D. Kokorin, M. Haas, F. Testud, J. Hennig, and M. Zaitsev Multi Slice Localized Parallel Excitation for Abdominal and Pelvic EPI Applications in Humans Proceedings of the 19th Annual Meeting of the ISMRM 2011, Montréal, Québec, Canada, #3933

[Back to top](#)

## Personal Inforamtion

Birthplace: Bordeaux, France Birthdate: October the 14th 1983 Nationality: French, German

## Education and training

2007 to present	Ph. D. candidate
2001 to 2007	Studies in Physics at the <a href="#">Institut of Physics</a> , <a href="#">Albert-Ludwigs Universität Freiburg</a> .
1994 to 2001	Deutsch-Französisches Abitur German\French university entrance diploma, passed in spring 2001 at the <a href="#">Deutsch-Französisches Gymnasium</a> , Freiburg.
07/2001 to 12/2005	Research Assistant at the <a href="#">Fraunhofer Institute for Applied Solid-State Physics</a> - IAF in short, dept. of High Frequency Devices and Circuits.

## Stipends

2006	New Entrant Stipend of the ISMRM for 14th Annual Meeting of the ISMRM, Seattle, Washington, USA
2006	Travel Grant of the German Chapter of the ISMRM to the annual meeting of the German Chapter of the ISMRM (Deutsche Sektion ISMRM e.V.)
2007	Hoffman-La Roche Travel Grant to the Joint Annual Meeting of the ISMRM-ESMRMB in Berlin, Germany
2007	Educational Stipends for Students, Postdoctoral and Clinical Trainees to the Joint Annual Meeting ISMRM-ESMRMB 2007 in Berlin, Germany
2008	Educational Stipends for Students, Postdoctoral and Clinical Trainees to the 16th Annual Meeting of the ISMRM 2008 in Toronto, Ontario, Canada
2009	

Travel Grant of the German Chapter of the ISMRM to the annual meeting of the German Chapter of the ISMRM (Deutsche Sektion ISMRM e.V.)

2011

Educational Stipends for Students, Postdoctoral and Clinical Trainees to the 19th Annual Meeting of the ISMRM 2011 in Montréal, Québec, Canada

[Back to top](#)