

## *Curriculum Vitae*

**Urs Eisenmann** Dr. sc. hum.  
d.o.b. September 04th, 1972, in Pforzheim, Germany

### **University Education**

2017 Doctorate (Dr. sc. hum.), Heidelberg University  
1993–1999 Medical Informatics, Heidelberg University, Heilbronn University of Applied Sciences

### **Scientific Career**

Since 2024 Quality Management Representative (ISO 13485), Institute of Medical Informatics, Heidelberg University Hospital  
Since 2019 Group lead: Image-based Decision Support in Diagnosis and Therapy, Institute of Medical Informatics, Heidelberg University Hospital  
2004–2019 Researcher, Institute of Medical Biometry and Informatics, Heidelberg University Hospital  
2004–2010 Technical Project Manager for Medical Device Software Development at Steinbeis Transfer Centre for Technical Consulting in Heilbronn  
2003–2004 Researcher, Neurosurgery, Heidelberg University Hospital  
2002–2008 Teaching Assistant at Heilbronn University of Applied Sciences  
2001–2002 Freelance software developer at Agents in Action in Heilbronn  
1999–2008 Researcher at the Signal- and Image Processing Lab, Heilbronn University of Applied Sciences

### **Awards and Honors**

2007 Certificate in Medical Informatics from the German Society for Medical Informatics, Biometrics and Epidemiology (GMDS)  
1999–2001 Gustav Berger Scholarship  
1994–1999 Scholarship of the “Studienstiftung des deutschen Volkes”

### **Citation Record**

Total citations: 449 h-index:12; h-index since 2021: 10

## Top-10 selected Publications

Zhao S, Wucherpfennig L, Kou Y, Triphan SMF, Ringwald FG, Mall MA, Stahl M, Sommerburg O, **Eisenmann U**, Knaup-Gregori P, Wielpütz MO. Artificial Intelligence Improves Chest X-ray Interpretation Employing Magnetic Resonance Imaging as Ground Truth in Patients with Cystic Fibrosis. **Am J Respir Crit Care Med**. 2026 May 4:aamag146. doi: 10.1093/ajrccm/aamag146. Epub ahead of print.

Hagen N, Blumenstock B, Kühle RP, Freudlsperger C, Kraut L, Bouffleur F, Knaup P, Hoffmann J, **Eisenmann U**. Electromagnetic Navigation in Mandibular Reconstruction Using Autologous Grafts: A Color-Coded Assistance for Precise Positioning of Bone Segments. **Comput Struct Biotechnol J**. 2026;35:0051.DOI: 10.34133/csbj.0051.

Saifi M, **Eisenmann U**, Ringwald F, Liu R, Kienle P, Schmitz D. Development of a convolutional neural network for the endoscopic classification of pouchitis in patients after restorative proctocolectomy. **Tech Coloproctol**. 2026 Mar 17;30(1):46. doi: 10.1007/s10151-025-03273-6.

Ringwald FG, Wucherpfennig L, Martynova A, Hagen N, Kürschner J, Zhao S, Stahl M, Sommerburg O, Mall MA, Graeber SY, Steinke E, Knaup P, Wielpütz MO, **Eisenmann U**. Automated scoring of airway abnormalities and mucus plugging in chest magnetic resonance imaging of cystic fibrosis using artificial intelligence. **Comput Struct Biotechnol J**. 2025 Oct 15;28:442-453. doi: 10.1016/j.csbj.2025.10.025.

Hagen N, Freudlsperger C, Kühle RP, Bouffleur F, Knaup P, Hoffmann J, **Eisenmann U**. A User-Friendly Software for Automated Knowledge-Based Virtual Surgical Planning in Mandibular Reconstruction. **J Clin Med**. 2025 Jun 25;14(13):4508. doi: 10.3390/jcm14134508.

Ringwald FG, Wucherpfennig L, Hagen N, Mücke J, Kaletta S, Eichinger M, Stahl M, Triphan SMF, Leutz-Schmidt P, Gestewitz S, Graeber SY, Kauczor HU, Alrajab A, Schenk JP, Sommerburg O, Mall MA, Knaup P, Wielpütz MO, **Eisenmann U**. Automated lung segmentation on chest MRI in children with cystic fibrosis. **Front Med (Lausanne)**. 2024 Nov 12;11:1401473. doi: 10.3389/fmed.2024.1401473.

Dugas M, Blumenstock M, Dittrich T, **Eisenmann U**, Feder SC, Fritz-Kebede F, Kessler LJ, Klass M, Knaup P, Lehmann CU, Merzweiler A, Niklas C, Pausch TM, Zental N, Ganzinger M. Next-generation study databases require FAIR, EHR-integrated, and scalable Electronic Data Capture for medical documentation and decision support. **NPJ Digit Med**. 2024 Jan 12;7(1):10. doi: 10.1038/s41746-023-00994-6.

Kuehle R, Ringwald F, Bouffleur F, Hagen N, Schaufelberger M, Nahm W, Hoffmann J, Freudlsperger C, Engel M, **Eisenmann U**. The Use of Artificial Intelligence for the Classification of Craniofacial Deformities. **J Clin Med**. 2023 Nov 14;12(22):7082. doi: 10.3390/jcm12227082.

Hagen N, Weichel F, Kühle R, Knaup P, Freudlsperger C, **Eisenmann U**. Automated calculation of ontology-based planning proposals: An application in reconstructive oral and maxillofacial surgery. **Int J Med Robot**. 2023 Dec;19(6):e2545. doi: 10.1002/rcs.2545. Epub 2023 Jul 3. PMID: 37395309.

Schaufelberger M, Kaiser C, Kuhle R, Wachter A, Weichel F, Hagen N, Ringwald F, **Eisenmann U**, Hoffmann J, Engel M, Freudlsperger C, Nahm W. 3D-2D Distance Maps Conversion Enhances Classification of Craniosynostosis. **IEEE Trans Biomed Eng**. 2023 Nov;70(11):3156-3165. doi: 10.1109/TBME.2023.3278030. Epub 2023 Oct 19.