

## **Curriculum Vitae**

**Oliver Weinheimer** PD Dr. rer. nat. Dipl. Math.  
d.o.b. March 30th, 1973, in Bingen am Rhein, Germany

### **University Education**

2025 Habilitation in Experimental Radiology (PD), Ruprecht-Karls-University Heidelberg (UHD)  
2007 Doctorate in Computer Science (Dr. rer. nat.), Johannes Gutenberg-Universität Mainz (JGU)  
2001 Diploma in Mathematics (Dipl. Math.), JGU  
1993–2001 Studies in Mathematics with an emphasis on Computer Science and subsidiary subject Business Administration, JGU

### **Scientific Career**

Since 2025 Member of Plattform Imaging Steering Committee, Translational Lung Research Center Heidelberg (TLRC)  
Since 2021 Principal Investigator (PI) of TLRC, German Center for Lung Research (DZL)  
Since 2013 Member of TLRC and the German Center for Lung Research (DZL)  
Since 2013 Senior Researcher, Diagnostic and Interventional Radiology, UHD  
2012–2013 Project Leader (PI) of DFG funded research project „Entwicklung und Validierung einer automatischen Methode zur Bestimmung der Bronchiengeometrie aus MDCT-Daten“, JGU  
2008–2011 Postdoctoral Research Fellow, JGU, Member of DFG research group FOR 474 "Bildgestützte zeitliche und regionale Analyse der Ventilations - Perfusionsverhältnisse in der Lunge"  
2001–2007 Research Assistant (PhD Student), JGU, Employee in different research projects, e.g. DFG project „3D-Rekonstruktion aus mehreren 2D-Projektions-Röntgenaufnahmen mit Hilfe der Referenzkugel-Methode (RSM)“

### **Software Development**

Since 2002 Principal developer of the software system YACTA, a tool for the fully automatic lung CT image quantification

### **Awards and Honors**

2024 Best Scientific Poster Award, DZL Annual Meeting 2024, Bad Nauheim, Germany (co-author)  
2022 Best Scientific Poster Award, DZL Annual Meeting 2022, Hannover, Germany (co-author)  
2017 Best Scientific Poster Award, IWPMF 2017, Seoul, South Korea (co-author)  
2011 Runner up of Lobe and Lung Analysis Challenge (LOLA11), Pulmonary Image Analysis Workshop, MICCAI, Toronto, Canada

### **Citation Record**

*Total citations: 2,792; h-index:28; h-index since 2021: 19* (Google Scholar March 9<sup>th</sup>, 2026)

## Top-10 selected Publications

\*equal contribution

[PubMed](#)  [Google Scholar](#) 

Bayfield KJ\*, **Weinheimer O\***, Boyton C, Fitzpatrick R, Middleton A, Kennedy B, Blaxland A, Jayasuriya G, Caplain N, Issa H, Goetti R, Wielpütz MO, Yu L, Galban CJ, Robinson TE, Bartholmai B, Fitzgerald D, Selvadurai H, Robinson PD. Implementation and evaluation of ultra-low dose CT in early cystic fibrosis lung disease. *Eur Respir J.* 2023 Jul 7;62(1):2300286. doi: 10.1183/13993003.00286-2023.

**Weinheimer O**, Konietzke P, Wagner WL, Weber D, Newman B, Galbán CJ, Kauczor HU, Mall MA, Robinson TE, Wielpütz MO. MDCT-based longitudinal automated airway and air trapping analysis in school-age children with mild cystic fibrosis lung disease. *Front Pediatr.* 2023 Feb 2;11:1068103. doi: 10.3389/fped.2023.1068103.

Do TD, Skornitzke S, Merle U, Kittel M, Hofbauer S, Melzig C, Kauczor HU, Wielpütz MO, **Weinheimer O**. COVID-19 pneumonia: Prediction of patient outcome by CT-based quantitative lung parenchyma analysis combined with laboratory parameters. *PLoS One.* 2022 Jul 29;17(7):e0271787. doi: 10.1371/journal.pone.0271787.

Röhrich M, Leitz D, Glatting FM, Wefers AK, **Weinheimer O**, Flechsig P, Kahn N, Mall MA, Giesel FL, Kratochwil C, Huber PE, Deimling AV, Heußel CP, Kauczor HU, Kreuter M, Haberkorn U. Fibroblast Activation Protein-Specific PET/CT Imaging in Fibrotic Interstitial Lung Diseases and Lung Cancer: A Translational Exploratory Study. *J Nucl Med.* 2022 Jan;63(1):127-133. doi: 10.2967/jnumed.121.261925. Epub 2021 Jul 16.

Konietzke P, Wielpütz MO, Wagner WL, Wuennemann F, Kauczor HU, Heussel CP, Eichinger M, Eberhardt R, Gompelmann D, **Weinheimer O**. Quantitative CT detects progression in COPD patients with severe emphysema in a 3-month interval. *Eur Radiol.* 2020 May;30(5):2502-2512. doi: 10.1007/s00330-019-06577-y

Jobst BJ, **Weinheimer O**, Buschulte T, Trauth M, Tremper J, Delorme S, Becker N, Motsch E, Groß ML, Trotter A, Eichinger M, Kauczor HU, Wielpütz MO. Longitudinal airway remodeling in active and past smokers in a lung cancer screening population. *Eur Radiol.* 2019 Jun;29(6):2968-2980. doi: 10.1007/s00330-018-5890-4.

**Weinheimer O**, Hoff BA, Fortuna AB, Fernández-Baldera A, Konietzke P, Wielpütz MO, Robinson TE, Galbán CJ. Influence of Inspiratory/Expiratory CT Registration on Quantitative Air Trapping. *Acad Radiol.* 2019 Sep;26(9):1202-1214. doi: 10.1016/j.acra.2018.11.001.

Jobst BJ\*, **Weinheimer O\***, Trauth M, Becker N, Motsch E, Groß ML, Tremper J, Delorme S, Eigentopf A, Eichinger M, Kauczor HU, Wielpütz MO. Effect of smoking cessation on quantitative computed tomography in smokers at risk in a lung cancer screening population. *Eur Radiol.* 2018 Feb;28(2):807-815. doi: 10.1007/s00330-017-5030-6.

**Weinheimer O**, Achenbach T, Bletz C, Duber C, Kauczor HU, Heussel CP. About objective 3-d analysis of airway geometry in computerized tomography. *IEEE Trans Med Imaging.* 2008 Jan;27(1):64-74. doi: 10.1109/TMI.2007.902798.

Achenbach T, **Weinheimer O**, Biedermann A, Schmitt S, Freudenstein D, Goutham E, Kunz RP, Buhl R, Dueber C, Heussel CP. MDCT assessment of airway wall thickness in COPD patients using a new method: correlations with pulmonary function tests. *Eur Radiol.* 2008 Dec;18(12):2731-8. doi: 10.1007/s00330-008-1089-4.