

# CURRICULUM VITAE

---

## PERSONAL DATA

Name Markus Schöberl (Dipl.-Ing. Dr.techn)  
Date of birth: 15.10.1978 in Salzburg  
Citizenship: Austria  
Marital status married to Tereza, Children: Nikolas and Tobias



---

## ACADEMIC CAREER

10/2014 **Habilitation** in Control Systems Technology and Control Theory at the Johannes Kepler University Linz, defense: October 10th, 2014  
05/2007 **Dissertation** (Ph.D) in Control theory (Dr.techn.) at the Johannes Kepler University Linz defense: May 16th, 2007  
04/2004 **Diploma** (Dipl.-Ing.) in Mechatronics at the Johannes Kepler University Linz

---

## EMPLOYMENT

since 10/2014 **Associate Professor** at the Institute of Automatic Control and Control Systems Technology, Johannes Kepler University Linz (JKU)  
05/2014-09/2014 **University assistant** at the Institute of Automatic Control and Control Systems Technology, Johannes Kepler University Linz (JKU)  
04/2011-04/2014 **Lecturer** at the Institute of Automatic Control and Control Systems Technology, Johannes Kepler University Linz (JKU) and **APART fellowship holder** of the Austrian Academy of Sciences  
10/2007-03/2011 **University assistant** at the Institute of Automatic Control and Control Systems Technology, Johannes Kepler University Linz (JKU)  
01/2007-09/2007 **Scientific research assistant** at the Institute of Automatic Control and Control Systems Technology, Johannes Kepler University Linz (JKU)

---

## AWARDS, GRANTS AND FUNDED PROJECTS

2004 **DOC Scholarship** of Austrian Academy of Sciences (12/2004 - 11/2006)  
2007 **Fred Margulies Award** for dissertation  
2011 **APART fellowship** of Austrian Academy of Sciences (04/2011 - 03/2014)  
2017 **FWF Project P - 29964: System-theoretic Analysis and Controller Design for PDEs** (05/2017 - 10/2021)  
2019 **FWF Project P - 32151: Flatness based system decompositions** (07/2019 - 06/2023)

---

## FURTHER SCIENTIFIC POSITIONS

- since 01/2018     **Area Coordinator** of the Area MECON in the LCM (Linz Center of Mechatronics)  
Competence Center of Symbiotic Mechatronics
- 07/2016-12/2017   **Area Coordinator** of the Area Mechanics and Model Based Control in LCM (Linz  
Center of Mechatronics)
- 

## SELECTED PUBLICATIONS

- J. Diwold, B. Kolar, **M. Schöberl**: A Trajectory-Based Approach to Discrete-Time Flatness, *IEEE Control Systems Letters*, vol 6, pp. 289-294, 2022.
- B. Kolar, **M. Schöberl**, J. Diwold: Differential-Geometric Decomposition of Flat Nonlinear Discrete-Time Systems, *Automatica*, 132, pp. 109828, 2021.
- T. Malzer, H. Rams, B. Kolar, **M. Schöberl**: Stability Analysis of the Observer Error of an In-Domain Actuated Vibrating String, *IEEE Control Systems Letters* 5(4), pp. 1237 - 1242, 2021.
- C. Gstöttner, B. Kolar, **M. Schöberl**: A Structurally Flat Triangular Form Based on the Extended Chained Form, *International Journal of Control*, 2020.
- **M. Schöberl**, K. Schlacher: On the extraction of the boundary conditions and the boundary ports in second-order field theories, *Journal of Mathematical Physics*. 59(10) pp. 102902 1-13 2018.
- H. Rams, **M. Schöberl**, K. Schlacher, Optimal Motion Planning and Energy-based Control of a Single Mast Stacker Crane, *Transactions on Control Systems Technology*, 26(4), pp. 1449-1457, 2018.
- **M. Schöberl**, K. Schlacher: Lagrangian and hamiltonian formulation for infinite-dimensional systems - a variational point of view. *Mathematical and Computer Modelling of Dynamical Systems*, 23(1), pp. 89-103, 2017.
- **M. Schöberl**, K. Schlacher, On an implicit triangular decomposition of nonlinear control systems that are 1-flat - a constructive approach, *Automatica*, 50(6), pp. 1649-1655, 2014.
- **M. Schöberl**, A. Siuka, Jet bundle formulation of infinite-dimensional port-Hamiltonian systems using differential operators, *Automatica*, 50(2), pp. 607-613, 2014.
- **M. Schöberl**, A. Siuka, On Casimir Functionals for infinite-dimensional Port-Hamiltonian Control Systems, *IEEE Transactions on Automatic Control*, 58(7), pp. 1823-1828, 2013.
- **M. Schöberl**, K. Schlacher, On an intrinsic formulation of time-variant Port Hamiltonian systems, *Automatica*, 48(9), pp. 2194-2200, 2012.
- **M. Schöberl**, K. Schlacher, Covariant formulation of the governing equations of continuum mechanics in an Eulerian description, *Journal of Mathematical Physics*, 48(5), pp. 052902 1-15, 2007.