

Curriculum Vitae – Max David Mylo

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Plant Biomechanics Group Freiburg
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Employments

- 02/2019 – present: Scientific employee in the Plant Biomechanics Group Freiburg and Botanic Garden (University of Freiburg). Germany's Excellence Strategy – EXC-2193/1 „*Living, Adaptive and Energy-autonomous Materials Systems (livMatS)*” project C-3-1 – funded by the German Research Foundation (DFG).
- 03/2018 – 01/2019: Scientific employee in the Plant Biomechanics Group Freiburg and Botanic Garden (University of Freiburg). Collaborative Research Center CRC-TRR 141 “Biological Design and Integrative Structures – Analysis, Simulation and Implementation in Architecture” project A06 – funded by the German Research Foundation (DFG).
- 12/2017 – 01/2018: Scientific employee in the Plant Biomechanics Group Freiburg and Botanic Garden (University of Freiburg).
- 03/2017 – 04/2017: Development of a software user interface (Qt (C++)) for the evaluation of trampoline competitions in cooperation with “Eurotramp Trampoline - Kurt Hack GmbH”.
- 12/2015 – 03/2017: Scientific employee at the Justus Liebig University Giessen (Institute for Sports Science) in the project “Development of a measurement and information system for the simultaneous acquisition, processing and preparation of competition data in trampoline gymnastics” in cooperation with Eurotramp Trampoline Kurt Hack GmbH and Wassing Messtechnik GmbH – funded by the Federal Ministry of Economics and Energy (BMWi).

Studies

- 2015 – 2017: Studies in “Biomechanics - Motor Skill - Human Motion Analysis” (Master of Science) at the Justus Liebig University Giessen.
Thesis (externally at the Albert Ludwig University Freiburg): “Establishment of a methodology for 3D plant movement and deformation analyses” [Supervision: Prof. Jörn Munzert, Prof. Thomas Speck, Dr. Simon Poppinga, Dr. Anna Westermeier]
- 2011 – 2015: Studies in Biology (Bachelor of Science) at the Albert Ludwig University Freiburg.
Thesis: “Funktionsmorphologie und Biomechanik von *Monophyllaea horsfieldii*” [Supervision: Prof. Thomas Speck, Dr. Simon Poppinga, Dr. Tim Kampowski]
- 2013 – 2014: Additional study program “Interdisciplinary Track” (IndiTrack) at the University College Freiburg.

Final school career

2010 – 2011:	community service (Kehl)
2010:	High School Graduation (Abitur)
2001 – 2010:	High School (Einstein-Gymnasium Kehl)
1997 – 2001:	Primary School (Grundschule Kehl-Kork)

Teaching

WS 2019/20:	Concept development and supervision of the practical Major Module II of Mara Hofmann: “Establishing methods for anatomical, morphological and mechanical studies on the haustorium of the European mistletoe (<i>Viscum album</i>)” [Supervision: Prof. Thomas Speck & Dr. Olga Speck]
SS 2018:	Practical course for students: “Funktionelle Morphologie, Biomechanik und Bionik für Studierende des höheren Lehramts“. Preparation, supervision and support of course experiments (University of Freiburg).
SS 2018:	Seminar for students: “Applied Biosciences“. Supervision of the seminar, pre-correction of a fictitious research proposal as housework and assessor of the exam (University of Freiburg).
SS 2013 & 2014:	Practical course for students: “Pflanzenphysiologie“. Supervision and support of course experiments (University of Freiburg).

(Co-)Supervision of theses

SS 2020:	Mara Hofmann: “Host-Parasite Interaction of European Mistletoe – An Anatomical, Morphological and Biomechanical Study“. [Master thesis, University of Freiburg; Supervisors: Prof. Thomas Speck & Dr. Olga Speck; in cooperation with Prof. Frank Balle at the INATECH Freiburg]
SS 2019:	Friederike Krüger: “Interrelation of Morphology, Anatomy and Biomechanical Parameters of Cacti Branches under Cyclic Bending: An Analysis of Self-Repair in <i>Opuntia ficus-indica</i> and <i>Cylindropuntia bigelovii</i> “. [Master thesis, University of Freiburg; Supervisors: Prof. Thomas Speck & Dr. Olga Speck]

Further activities

2021:	Virtual Ambassador for the “Open Biomechanics Session” at the SEB Annual Main Meeting (virtual), (29.06.-08.07.2021).
2018:	Concept development, planning and implementation of a bionics project week for students of the international school in Manosque (France).