

# Magnus B. Landwehr

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## Work Experience

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| 10/2021 – 07/2022 | <b>Internship at Munich Re, Munich</b><br>Support in building and structuring a database of risks and claims for global business units within the area of cyber-insurance;<br>Syntactic and semantic text analysis of corporate data leaks available on the dark web to assess the cyber security posture and resilience of various companies with respect to cyber-attacks;<br>Data screening for wearable health data and electronic health data |
| 10/2020 – 09/2021 | <b>Research Assistant at KSRI, Karlsruhe</b><br>Assisting in the research group “Applied AI” primarily on Computer Vision related development & research;<br>from cleaning and analyzing input-data with confident learning techniques and inter-labeler reliability inspections, over hyperparameter tuning, to building a tool for better model-performance inspection with plotly dash  |
| 06/2020 – 07/2020 | <b>Internship at the municipality Schorndorf, Schorndorf</b><br>Programming a relational database for the IT-hardware-inventory  |
| 06/2018 – 01/2020 | <b>Working Student at Siemens AG, Karlsruhe</b><br>Creation of a functional prototype of an information display and the training of future users of the info display;<br>Development, maintenance and modification of web applications for Global Siemens IT, in the area of Digital Engagement Service  |

## Education

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| 10/2022 – today   | <b>Master of Science</b><br>Karlsruhe Institute of Technology, Karlsruhe<br>Industrial Engineering and Management  |
| 11/2020 – 03/2021 | <b>Bachelor Thesis at WBK, Karlsruhe</b><br>Development of a functional instance segmentation model for metal surface damage detection with a Mask R-CNN architecture from the Tensorflow Object Detection API |
| 10/2017 – 09/2021 | <b>Bachelor of Science</b><br>Karlsruhe Institute of Technology, Karlsruhe<br>Industrial Engineering and Management  |
| 09/2008 – 07/2016 | <b>Higher Education Entrance Qualification</b><br>Max-Planck-Gymnasium, Schorndorf   |

## Publications

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03/2021	<b>Industrial Machine Tool Component Surface Defect Dataset</b> Tobias Schlagenhauf, Magnus Landwehr, Juergen Fleischer <i>Data in Brief, under revision</i>
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## International Experience

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04/2017 – 08/2017	<b>International Experience Canada</b> Participant of the governmental “Working-Holiday” program Working at Fraserway RV Rentals, department Customer Service
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## Extra-Curricular Activities

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03/2020 – 05/2022	<b>linkit</b> Head of human resource at the university group linkit with over 100 active members; participant on several intern (kaggle) challenges in regression, computer vision and natural language processing
01/2018 – 03/2020	<b>Bicycle Workshop</b> Helping students repairing their bicycles

## Languages

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German	Mother tongue
English	Business fluent

## Additional Skills

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Proficient in MS Office 365 Suite  
Knowledge in the following programming languages:

- Java
- JavaScript, HTML5, CSS
- Python (Packages: Tensorflow, Keras, OpenCV, Pillow, nltk, Sklearn)
- R
- VBA
- SQL



Magnus Landwehr

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