

Education

- 10/14 – 08/15 **M.Sc. in Electrical Engineering and Information Technology**,
10/16 – today *TU München*, Munich, Germany,
Expected Final GPA: 1.3 (on a scale from 1 to 5, with 1 being the highest score)
- Master's Thesis** Topic: Development and evaluation of a new asymmetric bilinear model for representation learning of knowledge graphs.
- 02/15 – 07/17 **Honor Degree in Technology Management**,
Center for Digital Technology and Management, Munich, Germany,
GPA: 1.3 (on a scale from 1 to 5, with 1 being the highest score)
Trend research and ideation of business ideas, new product development and prototyping, consulting on a strategic endeavors. 25 students selected per semester (<8% acceptance rate).
- 10/10 – 11/13 **B.Sc. in Electrical Engineering and Information Technology**,
TU München, Munich, Germany,
GPA: 1.9 (on a scale from 1 to 5, with 1 being the highest score)
- Bachelor's Thesis** Topic: Development of a combined event and RGBD image camera, calibration method, and data acquisition framework. Evaluation in a 3D SLAM application against ground-truth and state-of-the-art visual SLAM algorithms. Contribution to 2014 ICRA paper.

Work and Research Experience (selection)

- 11/17 – today **Master's Thesis Student**, *Mercateo GmbH*, Munich, Germany
Research on representation learning of knowledge graphs.
- 03/17 – 08/17 **Robotist Freelancer**, *Robotise*, Munich, Germany
Consulting, perception algorithm development, managing code integration and continuous testing, managing ROS package release process.
- 01/16 – 08/16 **Research Intern**, *NTT Communication Science Laboratories*, Atsugi, Japan
Research on human-curated cross-modal feature learning. Contribution to 2018 AAAI paper.
- 10/14 – 07/15 **Research Assistant**, *NavVis*, Munich, Germany
Development of algorithms for the removal of artifacts in point clouds.
- 01/14 – 06/14 **Research Intern**, *Siemens AG, Siemens Corporate Research*, Princeton, USA
Implementation of 3D reconstruction workflow (feature-based); Implementation and evaluation of depth camera calibration techniques; Porting and refactoring of C code to C++.
- 10/13 – 12/13 **Research Assistant**, *TU München, Neuroscientific System Theory*, Munich, Germany
Extension of an event-based SLAM framework to work in real-time on embedded, low-power ARM hardware (e.g., Rockchip devices), streaming of data via UDP, and visualization on a client device.
- 10/12 – 03/13, 04/15 – 07/15 **Teaching Assistant for the C Programming Course**, *TU München*, Munich, Germany
Tutoring of around 30-50 students in the programming language C.
- 09/11 – 11/11 **Intern**, *Siemens AG, I DT MC MF-M COC LMS LP*, Munich
Design and implementation of a test series evaluation tool in MATLAB (>20x speed improvement over existing solution); Implementation of a wrapper library for Siemens Starter in C# and integration with LabVIEW.
- 07/09 – 03/10 **Private First Class (OR-3)**, *3. FüUstgBtl 293*, Murnau am Staffelsee, Germany
Mandatory military service. Trained for SATCOM and TETRAPOL.

Publications

- 02/18 **Paper**, *NTT*
Mukura, Y.; Kimura, A.; Adrian, D.; Gharamani, Z., Weakly supervised collective feature learning from curated media, Conference on Artificial Intelligence (AAAI), 2018.
- 10/15 **Book**, *Center for Digital Technology and Management*, CDTM
The Future of Education, ISBN: 978-3-9815538-7-1, 2015.

- 06/14 **Paper**, *Institute of Automatic Control Engineering*, TU München
Weikersdorfer, D.; Adrian, D.; Cremers, D.; Conradt, J., Event-based 3D SLAM with a depth-augmented dynamic vision sensor, IEEE International Conference on Robotics and Automation (ICRA), 2014.
- 12/13 **Poster**, *Institute of Automatic Control Engineering*, TU München
Weikersdorfer, D.; Adrian, D.; Conradt, J., Event-based 3D SLAM. Bernstein Sparks Workshop on NeuroEngineering, Tutzing, 2013.

Competitions, Awards, and Scholarships

- 09/17 – 10/17 **1st Place in VW Data:Lab Deep Learning and Robotics Challenge**, *Volkswagen AG*, Munich
Team challenge entailed building a fully autonomous Lego brick sorting robot from scratch.
- 06/16 **Abroad Scholarship**, *Heinrich und Lotte Mühlfehl-Stiftung*, Munich
Awarded to students with excellent grades and social engagement at/outside of university.
- 08/15 – 09/16 **Vulcanus in Japan**, *EU-Japan Centre for Industrial Cooperation*, Japan
Accepted as 2015-16 fellow (4% acceptance rate, >1000 applicants EU-wide).
- 11/12 – 11/13 **Siemens-Mentoring-Program**, *Siemens AG / TU München*, Munich
The one-year program offers a Senior Manager as mentor, fireside chats, and a variety of events (~15 students per year).
- 10/10 – 07/11 **2nd Place in 'AdvElsor' Competition**, *TU München*, Munich
Managed IT sub-team during the final project of building an Autonomous Rubik's-Cube-solving robot.

Leadership activities

- 10/12 – 07/15 **Member**, *Federal Agency for Technical Relief (THW)*, Munich
Technical relief in Germany as part of national civil protection measures.
- 03/12 – 11/13 **Mentor**, *Mentoring for International eXchange Students*, TU München
Mentor and contact person for incoming foreign students of the faculty.
- 01/12 – 01/13 **Member of the board**, *Student association of the Department of Electrical Engineering and Information Technology*, TU München
Management of the registered association. Organized a new soft-skill program available to all students as part of the regular degree curriculum. Conducted reform of the by-laws including the organizational structure of the board.
- 03/11 – 07/15 **Student representative**, *Department of Electrical Engineering and Information Technology*, TU München
Regular member of the *Studienkommission* (commission on study affairs) and member of the working committee of the master reform.

Computer Literacy and Open-Source Contributions

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| Operating Systems | Linux (x86_64/ARM), Windows | Office | LaTeX, MS Office, OpenOffice |
| Programming Languages | C/C++, Python, MATLAB | Libraries | Tensorflow, Eigen, PCL, OpenCV, ROS |
| GitHub | github.com/dbadrian | | |

Languages

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|----------|----------------------------|---------|-----------------|
| German | Native | English | Proficient (C2) |
| Japanese | Lower Intermediate (A2-B1) | | |