David Adrian

Education

10/14 – 08/15 10/16 – today	**M.Sc. in Electrical Engineering and Information Technology**, *TU München*, Munich, Germany, *Expected Final GPA*: 1.39 (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	**Add-On 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	**Roboticist 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 Mühlfenzl-Stiftung*, Munich
	Awarded to students with excellents 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 'AdvEIsor' Competition**, *TU München*, Munich
	Managed IT sub-team during the final project of building an Autonomous Rubik's-Cube-solving robot. Placed 2nd in the competition.

Voluntary 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 comitee of the master reform.

Computer Literacy and Open-Source Contributions

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

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