






# Andreas Ziegler

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 Please click here to find my full CV







## About Me








I consider myself a full-stack roboticist, passionate about an (application-driven) mix of robotics, computer vision, and machine learning research.

In my next role, I aim to grow as an individual contributor while leveraging my leadership experience to foster team collaboration and drive impactful results. By shifting from individual achievements to collective success, I aspire to advance the fields of robotics, computer vision, and machine learning as a Postdoctoral Researcher.

## Education

- 2021.06 –  **PhD., University of Tübingen, Germany** in Robotics & Computer Vision.  
Thesis title: *Event-based Computer Vision for Fast Robot Control*
- 2014.09 – 2018.04  **MSc., ETH Zürich, Switzerland** in Electrical Engineering.  
Specialized in Robotics, Computer Vision, and Machine Learning
- 2011.09 – 2012.08  **BSc., Shanghai Jiao Tong University, China** in Electrical Engineering & Chinese Language (Exchange Year).
- 2009.09 – 2013.09  **BSc., FHO (HSR), Switzerland** in Electrical Engineering.







## Research Publications

- 1 Gossard, T., Krismer, J., Ziegler, A., Tebbe, J., & Zell, A. (2024, June). Table tennis ball spin estimation with an event camera. In *2024 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*.  doi:10.48550/arXiv.2404.09870
- 2 Gossard, T., Ziegler, A., Kolmar, L., Tebbe, J., & Zell, A. (2024). Ewand: A calibration framework for wide baseline frame-based and event-based camera systems. In *2024 International Conference on Robotics and Automation (ICRA)*, IEEE. Retrieved from  <https://arxiv.org/pdf/2309.12685.pdf>
- 3 Gossard, T., Tebbe, J., Ziegler, A., & Zell, A. (2023, October). Spindoe: A ball spin estimation method for table tennis robot. In *2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*.  doi:10.1109/IROS55552.2023.10342178
- 4 Ziegler, A., Teigland, D., Tebbe, J., Gossard, T., & Zell, A. (2023, May). Real-time event simulation with frame-based cameras. In *2023 IEEE International Conference on Robotics and Automation (ICRA)*.  doi:10.1109/icra48891.2023.10160654
- 5 Ziegler, A., Gossard, T., Vetter, K., Tebbe, J., & Zell, A. (2023). A multi-modal table tennis robot system. In *Robotics: Workshop on robot learning in athletics @corl 2023*.  doi:10.48550/arXiv.2310.19062
- 6 Horvath, A., Ziegler, A., Gerhard, S., Holenstein, C., Beyeler, B., Snedeker, J., & Silvan, U. (2021). Focus on time: Dynamic imaging reveals stretch-dependent cell relaxation and nuclear deformation. *Biophysical Journal*.  doi:10.1016/j.bpj.2021.01.020
- 7 Cieslewski, T., Ziegler, A., & Scaramuzza, D. (2019, October). Exploration without global consistency using local volume consolidation. In *Ifrr international symposium on robotics research (isrr), hanoi, 2019, IFRR: IEEE*. Retrieved from  <https://doi.org/10.5167/uzh-197724>




## Employment History

- 2021.06 –  **PhD Candidate**, University of Tübingen, Germany.  
In collaboration with Sony AI
- 2023.11 – 2024.03  **Research Scientist Intern**, Sony AI, Zürich, Switzerland.
- 2022.08 – 2022.10  **Computer Vision & Machine Learning Intern**, Prophesee, Paris, France.
- 2018.09 – 2021.05  **Robotics Engineer**, MT-Robot AG, Zwingen, Switzerland.
- 2018.06 – 2018.09  **Research Assistant**, Robotics and Perception Group, University of Zürich, Switzerland.
- 2018.04 – 2018.06  **Research Associate Intern**, Disney Research Zürich, Zürich, Switzerland.
- 2018.02 – 2018.03  **Research Assistant**, Laboratory for Orthopaedic Biomechanics, University and ETH Zürich, Switzerland.
- 2017.03 – 2017.08  **Computer Vision & Robotics Research Intern**, Pix4D SA, Lausanne, Switzerland.
- 2013.08 – 2015.08  **Research Assistant (partially Civil Service)**, Laboratory for Orthopaedic Biomechanics, University and ETH Zürich, Switzerland.
- 2013.11 – 2014.02  **Research Assistant (Civil Service)**, Computer Assisted Research and Development, University Hospital Balgrist, Zürich, Switzerland.
- 2004.08 – 2008.08  **Electronics Engineer Apprentice**, Hch. Künding & Cie. AG, Rüti ZH, Switzerland.

## Independent Coursework & Training

- 2024.09 – 2024.11  **Leadership Talent Academy**, University of Tübingen, Germany.
- 2024.10  **NVC Workshops**, Connectin2Life, Switzerland.
- 2024.05  **Search Inside Yourself: Emotional Intelligence for Leadership**, Swiss Engineering, Switzerland.
- 2021.08  **DT-01x: Self-Driving Cars with Duckietown**, ETHx on edX.
- 2018.03  **Deep Learning Specialization**, deeplearning.ai on Coursera.
- 2014.04  **Autonomous Mobile Robots**, ETHx on edX.

## Skills

- Languages  German (native, C2), English (excellent, C1), French (good, B1), Korean (basics, A2), Chinese (basics, A1).
- Coding  C++, Python, Julia, C, Java
- Libraries  OpenCV, ROS1/2, numpy, PyTorch, Eigen, boost, DDS

## Awards and Media Coverage

### Awards

- 2024  **Scholarship for the Leadership Talent Academy**, Startup Center Tübingen & University of Tübingen.

### Media Coverage

- 2023  **Forscherteam der Uni Tübingen entwickelt Tischtennis-Roboter**, Schwäbisches Tagblatt.