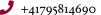
# **Andreas Ziegler**

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in https://www.linkedin.com/in/andreas-ziegler-34087467/

Please click here to find my full CV



#### About Me

I am a broadly trained roboticist with a passion for application-driven robotics, computer vision, and machine learning research.

I now seek 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 stimulate 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: *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**

- Ziegler, A., Vetter, K., Gossard, T., Tebbe, J., Otte, S., & Zell, A. (2025, May). Detection of fast-moving objects with neuromorphic hardware. In 2025 ieee international conference on robotics and automation (icra). 6 doi:10.48550/arXiv.2403.10677
- 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). Odoi:10.48550/arXiv.2404.09870
- 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 6 https://arxiv.org/pdf/2309.12685.pdf
- 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).

  6 doi:10.1109/iros55552.2023.10342178
- 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).

  Odi:10.1109/icra48891.2023.10160654
- Ziegler, A., Gossard, T., Vetter, K., Tebbe, J., & Zell, A. (2023). A multi-modal table tennis robot system. In *Roboletics: Workshop on robot learning in athletics @corl 2023.* 6 doi:10.48550/arXiv.2310.19062
- 7 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. Odi:10.1016/j.bpj.2021.01.020

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	<b>Robotics Engineer,</b> 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	<b>Research Assistant,</b> Laboratory for Orthopaedic Biomechanics, University and ETH Zürich, Switzerland.
2017.03 – 2017.08	Computer Vision & Robotics Research Intern, Pix <sub>4</sub> D 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 Develop-

ment, University Hospital Balgrist, Zürich, Switzerland.

Electronics Engineer Apprentice, Hch. Künding & Cie. AG, Rüti ZH, Switzer-

## Independent Coursework & Training

land.

Leadership Talent Academy, University of Tübingen, Germany. 2024.09 - 2024.11

> **NVC Workshops**, Connectin2Life, Switzerland. 2024.10

2024.05 Search Inside Yourself: Emotional Intelligence for Leadership, Swiss Engineering, Switzerland.

#### **Skills**

2004.08 - 2008.08

German (native, C2), English (excellent, C1), French (good, B1), Korean (basics, A2), Chinese Languages (basics, A1).

Coding C++, Python, Julia, C, Java

OpenCV, ROS1/2, numpy, PyTorch, Eigen, boost, DDS Libraries

## Awards and Media Coverage

#### **Q** Awards

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

#### A Media Coverage

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