

# Andreas Kriegler

## Computer Vision Researcher



📍 **Paulinengasse 18-20/2/2, Vienna, Vienna, AT**

✉️ **krieglerandreas@gmail.com**

📞 **+43 670 5563965**

🌐 **<https://andreaskriegler.eu>**

Andreas Kriegler      0000-0002-5653-5181      Andreas Kriegler  
Andreas Kriegler      akriegler

## 👤 ABOUT

PhD student in Computer Vision at TU Wien. Funded by the AIT Austrian Institute of Technology. Current research lies in the intersection of classical Computer Vision (geometry), Deep Learning, and Computer Graphics. (updated: 2024-08)

## 💼 WORK EXPERIENCE

**PhD Student, AIT Austrian Institute of Technology**  
**2021-Mar - 2099-Jan**

Publications on generic 6D object pose estimation for robotic applications.

**University Research Assistant, TU Wien**  
**2021-Mar - 2099-Jan**

Reviews, lectures.

**Data Scientist + Diploma Student, AIT Austrian Institute of Technology**  
**2018-Sep - 2021-Mar**

Developing Machine-Learning based Object Detection frameworks for various applications. Diploma Thesis on aerial automation.

**Software Developer (Intern), SMS Group**  
**2017-Aug - 2018-Jan**

Developing system for slag slopping prediction for LD-converters in MATLAB for Bachelor Paper.

**Call Center Agent, Customer Care Solutions**  
**2016-Feb - 2016-Dec**

Handling bus services.

## Paramedic, Vienna Red Cross

2013-Dec - 2014-Apr

Paramedic as part of the community service.

# EDUCATION

## Doctoral Degree, Computer Science (Computer Vision) - TU Wien

2021-Mar - 2099-Jan

### COURSES

- Geometry & Mathematics
- Research Ethics
- Philosophy of Science

## Master of Science (with distinction), Mechatronics & Robotics - University of Applied Sciences Technikum Vienna

2018-Sep - 2020-Oct

GPA: 1.58 (1.0-5.0, 1.0 is best)

### COURSES

- Robotics
- Computer Science
- Mechanical Engineering
- Electrical Engineering
- Management

## Bachelor of Science (with distinction), Mechatronics & Robotics - University of Applied Sciences Technikum Vienna

2015-Sep - 2018-Jun

GPA: 1.73 (1.0-5.0, 1.0 is best)

### COURSES

- Robotics
- Computer Science
- Mechanical Engineering
- Electrical Engineering
- Management

## Bachelor of Science (discontinued), Civil Engineering - University of Natural Resources and Life Sciences Vienna

2014-Oct - 2015-Jun

# PUBLICATIONS

## Review Paper: Body Movement Mirroring and Synchrony in Human-Robot Interaction

2024-08-01

<https://doi.org/10.1145/3682074>

## PrimitivePose: Generic Model and Representation for 3D Bounding Box Prediction of Unseen Objects

2023-08-09

<https://www.worldscientific.com/doi/10.1142/S1793351X23620027>

## Towards Scene Understanding for Autonomous Operations on Airport Aprons

2022-12

**PrimitivePose: 3D Bounding Box Prediction of Unseen Objects via Synthetic Geometric Primitives**  
2022-12

<https://doi.ieeecomputersociety.org/10.1109/IRC55401.2022.00040>

**Paradigmatic Revolutions in Computer Vision**  
2022-12

<https://drive.google.com/file/d/1ItDGcljAQOYo-HKHJLcC4gAgapCIQPns/view>

**Visual Semantic Context Encoding for Aerial Data Introspection and Domain Prediction**  
2022-04

**Pose-aware object recognition on a mobile platform via learned geometric representations**  
2022-07

<https://doi.org/10.23919/ascc56756.2022.9828370>

**Evaluation of Monocular and Stereo Depth Data for Geometry-Assisted Learning of 3D Pose**  
2021-11

<https://openlib.tugraz.at/download.php?id=621f290ecef8&location=browse>

**The Aircraft Context Dataset: Understanding and Optimizing Data Variability in Aerial Domains**  
2021-11

**Artificial Neural Networks Based Place Categorization**  
2020-10

[https://link.springer.com/chapter/10.1007/978-3-030-62784-3\\_17](https://link.springer.com/chapter/10.1007/978-3-030-62784-3_17)

**Vision-based Docking of a Mobile Robot**  
2020-04

<https://openlib.tugraz.at/download.php?id=5f6af343ccab6&location=browse>

**Artifical Neural Networks Based State Transition Modeling and Place Categorization**  
2018-11

[http://www.mechatronik-plattform.at/home/wp-content/uploads/2019/06/Tagungsband\\_Konferenz\\_MP\\_Oesterreich\\_2018.pdf](http://www.mechatronik-plattform.at/home/wp-content/uploads/2019/06/Tagungsband_Konferenz_MP_Oesterreich_2018.pdf)

# VOLUNTEER WORK

**Member, workshop organizer, ICBINB**  
2023-Mar - 2099-Jan

Crack open the research process. Organized NeurIPS workshop in 2023.  
<https://icbinb.cc/>

**German**

Fluency: Native speaker

**English**

Fluency: C2 (TOEFL)

**Japanese**

Fluency: A1

**Latin**

Fluency: A1

## ★ INTERESTS

**Film**

Tarkovsky | Lynch | Bergman

## thumb-up REFERENCES

Andreas has shown consistently high performance and strong commitment to research, which resulted already in five first-authored peer-reviewed publications at international conferences or journals.

- **Margrit Gelautz**

Andreas has shown to not only be a deeply motivated student but also an intelligent and communicative person.

- **Thomas Pock**

Mr. Kriegler has attracted attention due to his outstanding abilities in mathematics at master level, quick comprehension and critical observation of different models in the field of machine vision. In both, theory and practical implementation, Mr.Kriegler demonstrated a high level of understanding for complex interrelationships and a high level of implementation ability. Andreas Kriegler was an outstanding student and is

an outstanding young researcher. We wish him all the best for his scientific career.

- **Wilfried Wöber**