

# Andreas Kriegler

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## Summary

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PhD student in Computer Vision at TU Wien. Employed and funded by the Austrian Institute of Technology.

## Education

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- TU Wien** *Ongoing*  
*Dr. in Computer Science*
- University of Applied Sciences Technikum Vienna** *Sep 2018 to Oct 2020*  
*MSc. in Mechatronics/Robotics (with distinction)*
- GPA: 1.58 (1.0-5.0, 1.0 is best)
- University of Applied Sciences Technikum Vienna** *Sep 2015 to Jun 2018*  
*BSc. in Mechatronics/Robotics (with distinction)*
- GPA: 1.73 (1.0-5.0, 1.0 is best)
- University of Natural Resources and Life Sciences Vienna** *Oct 2014 to Jun 2015*  
*Civil Engineering* *(discontinued)*

## Experience

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- PhD Student** *Ongoing*  
*AIT Austrian Institute of Technology*
- Publications on generic 6D object pose estimation for robotic applications
- University Research Assistant** *Ongoing*  
*TU Wien*
- Reviews for international journals and conferences
  - Guest lectures + teaching assistant
- Data Scientist/Diploma Student** *Sep 2018 to Mar 2021*  
*AIT Austrian Institute of Technology*
- Diploma Thesis on aerial automation
  - Developing Machine-Learning based Object Detection frameworks for various applications
- Software Developer (Intern)** *Düsseldorf, Germany*  
*SMS Group* *Aug 2017 to Jan 2018*
- First Bachelor Paper
  - Developing system for slag slopping prediction for LD-converters in MATLAB
- Call Center Agent** *Feb 2016 to Dec 2016*  
*Customer Care Solutions*
- Paramedic** *Dec 2013 to Aug 2014*  
*Vienna Red Cross*

## Publications

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- Review Paper: Body Movement Mirroring and Synchrony in Human-Robot Interaction** *Aug 2024*
- Darja Stoeva, **Andreas Kriegler**, Margrit Gelautz  
[10.1145/3682074](https://doi.org/10.1145/3682074) [🔗](#) (ACM Transactions on Human-Robot Interaction (THRI))

- PrimitivePose: Generic Model and Representation for 3D Bounding Box Prediction of Unseen Objects** Aug 2023  
*Andreas Kriegler*, Csaba Beleznai, Margrit Gelautz, Markus Murschitz, Kai Göbel  
[10.1142/S1793351X23620027](https://doi.org/10.1142/S1793351X23620027) (International Journal of Semantic Computing (IJSC))
- Towards Scene Understanding for Autonomous Operations on Airport Aprons** Dec 2022  
 Daniel Steininger, *Andreas Kriegler*, Wolfgang Pointner, Verena Widhalm, Julia Simon, Oliver Zendel  
[10.1007/978-3-031-27066-6\\_11](https://doi.org/10.1007/978-3-031-27066-6_11) (Asian Conference on Computer Vision (ACCV 2022) Workshops)
- PrimitivePose: 3D Bounding Box Prediction of Unseen Objects via Synthetic Geometric Primitives** Dec 2022  
*Andreas Kriegler*, Csaba Beleznai, Markus Murschitz, Kai Göbel, Margrit Gelautz  
[10.1109/IRC55401.2022.00040](https://doi.org/10.1109/IRC55401.2022.00040) (International Conference on Robotic Computing (IRC 2022))
- Paradigmatic Revolutions in Computer Vision pdf** Dec 2022  
*Andreas Kriegler*  
 Advances in Neural Information Processing Systems 35 (NeurIPS 2022) Workshops
- Visual Semantic Context Encoding for Aerial Data Introspection and Domain Prediction** May 2022  
*Andreas Kriegler*, Daniel Steininger, Wilfried Wöber  
[10.1007/978-3-031-04881-4\\_34](https://doi.org/10.1007/978-3-031-04881-4_34) (Iberian Conference on Pattern Recognition and Image Analysis (IbPRIA 2022))
- Pose-aware object recognition on a mobile platform via learned geometric representations** May 2022  
 Csaba Beleznai, Philipp Ausserlechner, *Andreas Kriegler*, Wolfgang Pointner  
[10.23919/ascc56756.2022.9828370](https://doi.org/10.23919/ascc56756.2022.9828370) (Asian Control Conference (ASCC 2022))
- Evaluation of Monocular and Stereo Depth Data for Geometry Assisted Learning of 3D Pose** Nov 2021  
*Andreas Kriegler*, Csaba Beleznai, Margrit Gelautz  
[10.3217/978-3-85125-869-1-01](https://doi.org/10.3217/978-3-85125-869-1-01) (OAGM Workshop 2021 (OAGM 2021))
- The Aircraft Context Dataset: Understanding and Optimizing Data Variability in Aerial Domains** Nov 2021  
 Daniel Steininger, Verena Widhalm, Julia Simon, *Andreas Kriegler*, Christoph Sulzbacher  
[10.1109/ICCVW54120.2021.00426](https://doi.org/10.1109/ICCVW54120.2021.00426) (International Conference on Computer Vision (ICCV 2021) Workshops)
- Artificial Neural Networks Based Place Categorization** Oct 2020  
*Andreas Kriegler*, Wilfried Wöber, Mohammed Aburaia  
[10.1007/978-3-030-62784-3\\_17](https://doi.org/10.1007/978-3-030-62784-3_17) (International Symposium for Production Research (ISPR 2020))
- Vision-based Docking of a Mobile Robot** Sep 2020  
*Andreas Kriegler*, Wilfried Wöber  
[10.3217/978-3-85125-752-6-03](https://doi.org/10.3217/978-3-85125-752-6-03) (Joint Austrian Computer Vision and Robotics Workshop (ACVRW 2020))
- Visual Semantic Context Encoding for Data Harvesting and Domatin Prediction link** Sep 2020  
*Andreas Kriegler*  
 Diploma Thesis, University of Applied Sciences Technikum Vienna
- FH Technikum Wien: Artificial Neural Networks Based State Transition Modeling and Place Categorization pdf** Nov 2018

*Andreas Kriegler*


Konferenz der Mechatronik Plattform Österreich

## Projects

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### **I Can't Believe It's Not Better** [ICBINB](#)

*Ongoing*

- Crack open the research process
- Organized NeurIPS workshop 'Failure Modes in the Age of Foundation Models' in 2023 [link](#) 



## Languages

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- **German** - native
- **English** - TOEFL 116/120 (C2)
- **Japanese** - A1
- **Latin** - A2

## References

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- **Professor Margrit Gelautz** [link](#)  - TU Wien, Faculty of Informatics, Institute of Visual Computing and Human-Centered Technology
- **Dr. Wilfried Wöber** [link](#)  - University of Applied Sciences Technikum Vienna, Automation & Robotics

## Hobbies

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Film, Photography, Computers, Piano, Gym, Cycling