

Andreas Kriegler

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Summary

PhD student in Computer Vision at TU Wien, set to finish in late 2026.

I am a PhD student in Computer Vision at the [CVL](#) at TU Wien. My supervisor is [Prof. Margrit Gelautz](#). My research is funded by the [AIT Austrian Institute of Technology](#) where I am further advised by [Csaba Beleznai](#).

My research lies in the intersection of classical Computer Vision, Deep Learning and Computer Graphics. The goal is to develop novel methods for highly generic object pose estimation. We are specifically interested in the geometry of objects and exploit rendering engines to generate synthetic data.

Before joining the PhD program, I received my M.Sc. and B.Sc. degrees in Mechatronics/Robotics from the UAS Technikum Wien, both with distinction.

Education

TU Wien

Dr. techn. (PhD) in Computer Science

Vienna, Austria

Mar 2021 – present

- Advisor: Prof. Margrit Gelautz (CVL, Faculty of Informatics, TU Wien)

University of Applied Sciences Technikum Wien

M.Sc. (with distinction) in Mechatronics/Robotics

Vienna, Austria

Sept 2018 – Oct 2020

University of Applied Sciences Technikum Wien

B.Sc. (with distinction) in Mechatronics/Robotics

Vienna, Austria

Sept 2015 – June 2018

University of Natural Resources and Life Sciences Vienna

B.Sc. in Civil Engineering (discontinued)

Vienna, Austria

Oct 2014 – June 2015

Experience

PhD Student

AIT Austrian Institute of Technology

Vienna, Austria

Mar 2021 – present

Besides the dissertation, I am involved in projects on the automation of large-scale machinery.

Univ. Research Assistant (external)

TU WIEN

Vienna, Austria

Mar 2021 – present

We are working on a robotic imitation system and corresponding publications for the [caring robots project](#). I am regularly teaching guest lectures and am reviewing external papers as well as internal diploma theses.

Computer Vision Engineer

AIT Austrian Institute of Technology

Vienna, Austria

Nov 2020 – Mar 2021

Diploma Student

AIT Austrian Institute of Technology

Vienna, Austria

Sept 2018 – Oct 2020

Application and Control Engineering Intern

SMS Group

Düsseldorf, Germany

Aug 2017 – Jan 2018

Call Center Agent

Customer Care Solutions

Vienna, Austria

Feb 2016 – Dec 2016

Paramedic

Vienna Red Cross

Vienna, Austria

Dec 2013 – Apr 2014

Academic Work

I Can't Believe It's Not Better Initiative

*Worldwide
2022 – present*

I joined the ICBINB initiative after the NeurIPS 2022 workshop. Our aim is to foster a community beyond benchmark climbing, specifically to provide a venue for negative results as well as introspective works. I helped organize the [2023 NeurIPS](#) and [2025 ICLR](#) workshops with them. Together with Prof. Neil Lawrence we publish outstanding works in the [Proceedings of Machine Learning Research series](#).

Teaching (TU Wien, guest lectures)

- Stereo Vision (188.513): 2021S, 2024S
- Video Analysis (188.329): 2021W, 2022W, 2023W
- Visual Analysis of Human Motion (188.468): 2022S, 2023S, 2025S

Reviewing

- Journals: [IJCV](#), [IJSR](#), [IJCSS](#)
- Conferences: [ICML](#), [SIGGRAPH](#), [DAGM](#), [CVWW](#), [ISPA](#), [ÖAGM](#)

Editor

- NeurIPS/ICLR ICBINB workshop proceedings: [PMLR](#)

Summer Schools

International Computer Vision Summer School (ICVSS)

*Sicily, Italy
July 2024*

Attended the summer school and passed the examination session (1h)

British Machine Vision Association Computer Vision Summer School

*Lincoln, United Kingdom
July 2019*

Participated in 32 contact hours with exercises at the University of Lincoln

Awards

- Graduated with distinction from the Master's degree (2020) at UAS Technikum Wien
- Graduated with distinction from the Bachelor's degree (2018) at UAS Technikum Wien
- My 2nd Bachelor thesis was nominated as the "Best Bachelor Thesis in Mechatronics in Austria (2018)"

Scholarships

- Received two scholarships from the UAS Technikum Wien for exceptional academic success (17/18, 19/20)
- Received a scholarship from the Karl-Seitz-Stiftung, reserved for students with exceptional academic success and difficult family background (2017)

Certificates

- TOEFL iBT English Language Certificate with grade "C2 (116/120)" (2022)
- Intercultural Skills Certificate from The International Office of the UAS Technikum Wien (2018)
- IAESTE English Language Certificate with grade "1 - excellent" from Berlitz language school (2016)
- Dassault Systemes Mechanical Design (Associate) certification (2016)
- Japanese language courses with certifications of attendance (7.5 ECTS in total, 2015-2017)

Languages

- German (native)
- English (C2)
- Japanese (basic)

- Latin (basic)
- Polish (basic)

References

- Margrit Gelautz, TU Wien, margrit.gelautz@tuwien.ac.at
- Wilfried Wöber, FH Technikum Wien, wilfried.woeber@technikum-wien.at
- Jörg Thomasberger, SMS Group, joerg.thomasberger@sms-group.com

Publications

- Review Paper: Body Movement Mirroring and Synchrony in Human-Robot Interaction** Oct 2024
D. Stoeva, **A. Kriegler**, M. 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
A. Kriegler, C. Beleznai, M. Gelautz, M. Murschitz, K. 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** Mar 2023
D. Steininger, **A. Kriegler**, W. Pointner, V. Widhalm, J. Simon, O. Zendel
[10.1007/978-3-031-27066-6_11](https://doi.org/10.1007/978-3-031-27066-6_11) (16th Asia Conference on Computer Vision (ACCV 2022) - The Fourth International Workshop on Machine Learning and Computing for Visual Semantic Analysis)
- PrimitivePose: 3D Bounding Box Prediction of Unseen Objects via Synthetic Geometric Primitives** Jan 2023
A. Kriegler, C. Beleznai, M. Murschitz, K. Göbel, M. Gelautz
[10.1109/IRC55401.2022.00040](https://doi.org/10.1109/IRC55401.2022.00040) (2022 Sixth IEEE International Conference on Robotic Computing (IRC))
- Paradigmatic Revolutions in Computer Vision** Dec 2022
A. Kriegler
drive.google.com/file/d/1ItDGcljAQOYo-HKHJLcC4gAgapCIQPns/view (Advances in Neural Information Processing Systems 35 (NeurIPS 2022) - I Can't Believe It's Not Better (ICBINB) Workshop)
- Pose-aware object recognition on a mobile platform via learned geometric representations** July 2022
C. Beleznai, P. Ausserlechner, **A. Kriegler**, W. Pointner
[10.23919/ASCC56756.2022.9828370](https://doi.org/10.23919/ASCC56756.2022.9828370) (2022 13th Asian Control Conference (ASCC))
- Visual Semantic Context Encoding for Aerial Data Introspection and Domain Prediction** Apr 2022
A. Kriegler, D. Steininger, W. 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)
- Evaluation of Monocular and Stereo Depth Data for Geometry-Assisted Learning of 3D Pose** Nov 2021
A. Kriegler, C. Beleznai, M. Gelautz
[10.3217/978-3-85125-869-1-01](https://doi.org/10.3217/978-3-85125-869-1-01) (Proceedings of the OAGM Workshop 2021)
- The Aircraft Context Dataset: Understanding and Optimizing Data Variability in Aerial Domains** Nov 2021
D. Steininger, V. Widhalm, J. Simon, **A. Kriegler**, C. Sulzbacher

[10.1109/ICCVW54120.2021.00426](#) (2021 IEEE/CVF International Conference on Computer Vision Workshops (ICCVW))

Artificial Neural Networks Based Place Categorization

Oct 2020

A. Kriegler, W. Wöber, M. Aburaia

[10.1007/978-3-030-62784-3_17](#) (The International Symposium for Production Research (ISPR))

Vision-based Docking of a Mobile Robot

Aug 2020

A. Kriegler, W. Wöber

[10.3217/978-3-85125-752-6-03](#) (Joint Austrian Computer Vision and Robotics Workshop (ACVRW))

FH Technikum Wien: Artificial Neural Networks Based State Transition Modeling and Place Categorization

Nov 2018

A. Kriegler

[mechatronik-plattform.at/wp-content/uploads/2025/04/Tagungsband_2018_FH-Campus02.pdf](#) (Konferenz der Mechatronik Plattform Österreich 2018)

Theses

Visual Semantic Context Encoding for Data Harvesting and Domain Prediction

Sept 2020

A. Kriegler, W. Wöber

[permalink.obvsg.at/ftw/AC16098872](#) (Master's Thesis (UAS Technikum Wien))

Artificial Neural Networks based State Transition Modeling and Place Categorization

June 2018

A. Kriegler, W. Wöber

[www.researchgate.net/publication/352211259_Artificial_Neural_Networks_based_State_Transition_Modeling_and_Place_Categorization](#) (Bachelor's Thesis (2nd, UAS Technikum Wien))

Neuentwicklung der Schlackeauswurferkennung auf der Basis von MATLAB

Jan 2018

A. Kriegler, Olaf Nowitzki

[www.researchgate.net/publication/352211347_Neuentwicklung_der_Schlackeauswurferkennung_auf_der_Basis_von_MATLAB](#) (Bachelor's Thesis (1st, german, UAS Technikum Wien))