Christian-Albrechts-Universität zu Kiel Institut für Informatik Marine Data Science Kiel, Germany				
Academic Appointments Christian-Albrechts-Universität zu Kiel	Kiol (	Jarmany	2024 – Now	
KiTE Research Fellow	Kiel, Germany		2024 – NOW	
Ukrainian Catholic University Assistant Professor	Lviv, Ukraine		2023 - 2024	
Czech Inst. of Informatics, Robotics & Cybernetics $Research\ Fellow$	Prague, Czechia		2022 - 2023	
Chalmers University of Technology Post-Doctoral Research Scientist	Gother	Gothenburg, Sweden 2021		
Facebook Reality Labs, AR/VR Post-Doctoral Research Scientist	Pittsburgh, PA		2019 - 2021	
Education				
Czech Technical University Ph.D., Computer Science	Prague	Prague, Czechia 2020		
Thesis: "Methods for the Rectification of Imaged Coplanar Repea	ted Patt	erns"		
Czech Technical University M.Sc., Computer Science	Prague	Prague, Czechia 20		
The University of North Texas B.Sc., Mathematics	Dentor	Denton, TX 2		

## **Publications**

- E. Dexheimer, P. Peluse, J. Chen, **J. Pritts**, and M. Kaess. Information-theoretic online multi-camera extrinsic calibration. *IEEE Robotics and Automation Letters*, 7(2):4757–4764, 2022
- Y. Lochman, K. Liepieshov, J. Chen, M. Perdoch, C. Zach, and J. Pritts. Babelcalib: a universal approach to calibrating central cameras. In ICCV, 2021
- Y. Lochman, O. Dobosevych, R. Hryniv, and **J. Pritts**. Minimal Solvers for Single-View Auto-Calibration. In WACV, 2021
- **J. Pritts**, Z. Kukelova, V. Larsson, Y. Lochman, and O. Chum. Minimal solvers for rectifying from radially-distorted conjugate translations. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 43(11):3931–3948, 2021
- **J. Pritts**, Z. Kukelova, V. Larsson, Y. Lochman, and O. Chum. Minimal Solvers for Rectifying from Radially-Distorted Scales and Change of Scales. *International Journal of Computer Vision*, 128(4):950–968, 2020
- ${\bf J.~Pritts},$  Z. Kukelova, V. Larsson, and O. Chum. Rectification from Radially-Distorted Scales. In  $ACCV,\,2018$
- ${\bf J.~Pritts},~{\bf Z.~Kukelova},~{\bf V.~Larsson},~{\bf and~O.~Chum.}~{\bf Radially-Distorted~Conjugate~Translations.}~{\bf In}~{\it CVPR},~{\bf 2018}$
- ${\bf J.~Pritts},$  D. Rozumnyi, M. P. Kumar, and O. Chum. Coplanar Repeats by Energy Minimization. In  $BMVC,\,2016$

- $\bf J.$   $\bf Pritts,$  O. Chum, and J. Matas. Detection, Rectification, and Segmentation of Coplanar Repeated Patterns. In  $\it CVPR,\,2014$
- **J. Pritts**, O. Chum, and J. Matas. Approximate Models for Fast and Accurate Epipolar Geometry Estimation. In *IVCNZ*, 2013

European Laboratory for Learning and Intelligent Systems (ELLIS) Scholar for "recognition of outstanding junior scientists."

Asian Conference on Computer Vision (ACCV) Saburo Tsuji Best Paper Award for "Rectification from Radially-Distorted Scales"

Image and Vision Computing New Zealand (IVCVNZ) Best Paper Award
for "Approximate Models for Fast and Accurate Epipolar Geometry Estimation"

## Advising

M.Sc. Students

Igor Babin Ukrainian Catholic University 2024

Thesis: "Image inpainting in latent space"

Dmytro Nadobko Ukrainian Catholic University 2023

Thesis: "Supervised learning of correspondence volumes for coplanar repetitive

patterns"

Andrii Stadnik Ukrainian Catholic University 2023

Thesis: "Corner localization and camera calibration from imaged lattices"

Yaroslava Lochman Ukrainian Catholic University 2018 – 2020

Thesis: "Minimal Solvers for Single-View Auto-Calibration" moved on as Ph.D. student at Chalmers University of Technology

B.Sc. Students

Yarolsav Romanus Ukrainian Catholic University 2024

Thesis: "Applying motion in latent space"

Ostap Viniavskyi Ukrainian Catholic University 2019 – 2021

Thesis: "Learning Discriminative Context-Aware Keypoints Representations for

Resolving Ambiguous Matches"

moved on as Researcher at The ML Lab at Ukrainian Catholic University

Kostiantyn Liepieshov Ukrainian Catholic University 2019 – 2021

Thesis: "Manhattan-Frame Detection in Lens-Distorted Images" moved on as M.Sc. student at Ukrainian Catholic University

Funding

Principal Facebook Sponsored Research Agreement 2020

"Calibration of Head-Mounted Multi-Camera Capture Systems"

Awarded: \$25,000

Contributing Facebook Sponsored Research Agreement 2020 – 2021

"In-the-field Extrinsic Calibration of Multi-camera Systems"

Awarded: \$150,000

## Professional Service Activities

CVPR, ICCV, ECCV, 3DV, WACV, ACCV, ICRA, IJCV, Reviewer

**PAMI** 

Conference Organizer Poster Chair 3DV 2022

Tutorial Organizer "Affine Correspondences and Their Applications" 3DV 2022

Tutorial Organizer "Affine Correspondences and Their Applications" CVPR 2022

**Teaching** 

3D Computer Vision 2023

M.Sc. level, Ukrainian Catholic University

Image Retrieval 2017 - 2018

M.Sc. level, Ukrainian Catholic University

Pattern Recognition and Machine Learning 2013 - 2018

B.Sc. level, Czech Technical University in Prague

**Invited Talks and Lectures** 

3DV Tutorial Talk September 12, 2022 "Just One Image is All It Takes..."

Prague, Czechia

CVPR Tutorial Talk June 19, 2022 "Just One Image is All It Takes..." New Orleans, LA

Facebook Reality Labs June 14, 2018

"Minimal Solvers and Multi-Model Estimators for Image Undistortion and Scene-

Pittsburgh, PA Plane Rectification"

The Aspen Institute's 2018 Young Leader's Program March 17, 2018 "Opportunities and Risks of Artificial Intelligence" Tále, Slovakia

The Eastern European Computer Vision Conference July 14, 2017

"Detection, Rectification, and Segmentation of Coplanar Repeated Patterns" Odesa, Ukraine

The 34th Pattern Recognition and Computer Vision Colloquium April 3, 2014

"Detection, Rectification, and Segmentation of Coplanar Repeated Patterns" Prague, Czechia