# Edgar Tretschk

## Education

**Max Planck Institute for Informatics and Saarland University** since Oct. 2018
*PhD Candidate in Computer Science* *Saarbrücken, Germany*

**Graduate School of Computer Science, Saarland University** April 2017 – Oct. 2018
*Doctoral Preparatory Phase* *Saarbrücken, Germany*

**Saarland University** Oct. 2014 – March 2017
*Bachelor of Science in Computer Science* *Saarbrücken, Germany*

- Bachelor Thesis: Variational Pansharpening with Nonlinear Anistropic Diffusion
- Grade: 1.1, Graduated in Top 3

## Experience

**Research Immersion Lab** Oct. 2017 – March 2018
*Mario Fritz' Scalable Learning & Perception group at MPII* *Saarbrücken, Germany*

- Published a work on adversarial attacks on agents trained with reinforcement learning

**Research Immersion Lab** April 2017 – Oct. 2017
*Christian Theobalt's Graphics, Vision & Video group at MPII* *Saarbrücken, Germany*

- Extended a previously developed method to simultaneously reconstruct the object being tracked

**Undergraduate Research Assistant** Oct. 2016 – March 2017
*Christian Theobalt's Graphics, Vision & Video group at MPII* *Saarbrücken, Germany*

- Developed a method that tracks a non-rigid object in real time from depth video

## Awards & Honors

- Bachelor Award (for the three best Bachelor graduates in CS)
- Bachelor Honors Program
- Deutschlandstipendium Scholarship (April 2015 – March 2017)

## Publications


[1] V. Sidhu, **E. Tretschk**, V. Golyanik, A. Agudo, and C. Theobalt. "Neural Dense Non-Rigid Structure from Motion with Latent Space Constraints". In: *European Conference on Computer Vision (ECCV)*. 2020.

[2] **E. Tretschk**, A. Tewari, V. Golyanik, M. Zollhöfer, C. Stoll, and C. Theobalt. "PatchNets: Patch-Based Generalizable Deep Implicit 3D Shape Representations". In: *European Conference on Computer Vision (ECCV)*. 2020.

[3] **E. Tretschk**, A. Tewari, M. Zollhöfer, V. Golyanik, and C. Theobalt. "DEMEA: Deep Mesh Autoencoders for Non-Rigidly Deforming Objects". In: *European Conference on Computer Vision (ECCV)*. 2020.

[4] S. Shimada, V. Golyanik, **E. Tretschk**, D. Stricker, and C. Theobalt. "DispVoxNets: Non-Rigid Point Set Alignment with Supervised Learning Proxies". In: *International Conference on 3D Vision (3DV)*. 2019.

[5] **E. Tretschk**, S. J. Oh, and M. Fritz. "Sequential Attacks on Agents for Long-Term Adversarial Goals". In: *2. ACM Computer Science in Cars Symposium (CSCS)*. 2018.