## Lu Sang, M.Sc.

0	TUM CVG grou	ıp	📫 S	upervisor: Daniel Cremers	🖂 sangluisme@gmail.com
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### Education

Dec. 2019 – present	<b>Ph.D, candidate Computer Science, Technical Univers</b>	ity of Munich
June. 2019 – Sep. 2016	<ul> <li>Main research domain: 32 &amp; 42 reconstruction comp imp.</li> <li>M.Sc. Mathematics, Technical University of Munich Main research domain: Partial differential equations and direction</li> </ul>	ferential geometry
Sep. 2011 – Sep. 2016	<ul> <li>B.Sc. Mathematics, Tongji University</li> <li>Main research domain: Applied mathematics.</li> </ul>	ferential geometry.

### **Main Research Topics**

- **Photometric Stereo**: Classical and learning-based photometric stereo multiview reconstruction. Joint optimization with camera pose estimation with physical-based image model.
- **3D presentation**: classical and neural implicit surface representation and 3D reconstruction.
- **4D reconstruction and interpolation**: time-dependent implicit field with physical-plausible surface interpolation.

#### **Research Publications**

M. Deka\*, L. Sang\*, and D. Cremers, "Erasing the ephemeral: Joint camera refinement and transient object removal for street view synthesis," in *GCPR*, 2024.
 L. Härenstam-Nielsen, L. Sang, A. Saroha, N. Araslanov, and D. Cremers, "Diffcd: A symmetric differentiable chamfer distance for neural implicit surface fitting," in *ECCV*, 2024.
 D. Komorowicz\*, L. Sang\*, F. Maiwald, and D. Cremers, "Coloring the past: Neural historical buildings reconstruction from archival photography," in *GCPR*, 2024.
 L. Sang, A. Saroha, M. Gao, and D. Cremers, "Enhancing surface neural implicits with curvature-guided sampling and uncertainty-augmented representations," in *ECCVW*, 2024.
 L. Sang, B. Haefner, X. Zuo, and D. Cremers, "High-quality rgb-d reconstruction via multi-view uncalibrated photometric stereo and gradient-sdf," in *WACV*, 2023.
 C. Sommer\*, L. Sang\*, D. Schubert, and D. Cremers, "Gradient-SDF: A semi-implicit surface representation for 3d reconstruction," in *CVPR*, 2022.
 L. Sang, B. Haefner, and D. Cremers, "Inferring super-resolution depth from a moving light-source enhanced rgb-d sensor: A variational approach," in *WACV*, 2020.

# CodingPython, Pytorch, Jax, C++LanguagesEnglish (fluent), Chinese (native), German (intermediate)