

# MARK BOSS

RESEARCH SCIENTIST  
COMPUTER VISION/GRAPHICS

## CONTACT

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## ABOUT ME

I'm a researcher at Stability AI. I worked at Unity Technologies before and completed my PhD at the University of Tübingen in the computer graphics group of Prof. Hendrik Lensch. My research interests lie at the intersection of machine learning and computer graphics, focusing mainly on inferring physical properties (shape, material, illumination) from images.

## EDUCATION

### Doctor of Philosophy (PhD)

Jun. 2018 - Mar. 2023

University of Tübingen, Germany  
Advisor: Prof. Hendrik Lensch  
Grade: Summa Cum Laude

### Master of Science (MSc)

Feb. 2016 - Apr. 2018

University of Tübingen, Germany

### Bachelor of Science (BSc)

Sep. 2012 - Feb. 2016

Osnabrück University of Applied Sciences, Germany

## WORK EXPERIENCE

### Research Scientist - Stability AI - Germany

Jan. 2024 - present

### Senior Research Scientist - Unity Technologies - Germany

Sep. 2022 - Jan. 2024

### Student Researcher - Google - Germany

Jun. 2021 - Apr. 2022

### Research Intern - NVIDIA - Westford, MA

Apr. 2019 - Jul. 2019

### Android Developer - zahlz - Osnabrück, Germany

Jul. 2015 - Jun. 2017

## SELECTED PUBLICATIONS

### SAMURAI: Shape And Material from Unconstrained Real-world Arbitrary Image collections

Dec. 2022 - NeurIPS - Mark Boss, Andreas Engelhardt, Abhishek Kar, Yuanzhen Li, Deqing Sun, Jonathan T. Barron, Hendrik P. A. Lensch, Varun Jampani

### Neural-PIL: Neural Pre-Integrated Lighting for Reflectance Decomposition

Dec. 2021 - NeurIPS - Mark Boss, Varun Jampani, Raphael Braun, Ce Liu, Jonathan T. Barron, Hendrik P. A. Lensch

### NeRD: Neural Reflectance Decomposition from Image Collections

Oct. 2021 - ICCV - Mark Boss, Raphael Braun, Varun Jampani, Jonathan T. Barron, Ce Liu, Hendrik P. A. Lensch

### Two-shot Spatially-varying BRDF and Shape Estimation

Jun. 2020 - CVPR - Mark Boss, Varun Jampani, Kihwan Kim, Hendrik P. A. Lensch, Jan Kautz