

MAX ARGUS

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FREIBURG IM BREISGAU, GERMANY

EDUCATION

UNIVERSITY OF FREIBURG

2022 PhD Computer Science, *magna cum laude*

Thesis: "Computer Vision for Robot Manipulation"

UNIVERSITY OF HEIDELBERG

2015 M.Sc. Statistical Physics, 1.7/1.0

Thesis: "Image Segmentation with CNNs"

UNIVERSITY OF HEIDELBERG

2013 B.Sc. Physics 1.9/1.0

Thesis: "Electric Field Optimization of a Rydberg Atom Experiment"

COMMUNITY

RV STEGEN BIKE CLUB

Member, 2024 – Present

UNITED WORLD COLLEGE

Garden Volunteer, 2022 – Present

LANGUAGES

Fluency in English and German

SKILLS

Office: PowerPoint, Excel, Word,

CS: Python, C/C++, git, etc.

ML: pytorch, jupyter, OpenGL, CUDA, etc.

Web: Javascript, Web-APIs, HTML, CSS

Data: SQL/Databases, matplotlib, XML

GenAI: LLMs, VLMs, Diffusion

PUBLICATIONS LISTINGS



(web links)

UNIVERSITY OF FREIBURG

POSTDOC, Computer Science

Sept 2022 – Present

- Supervising PhD students, including project planning, writing project proposals for funding, assessing applicants, supervising Masters and Bachelors theses
- Holding lectures, creating presentations and figures, presenting at international conferences
- Coordinating collaboration between departments and research groups, e.g. the university hospital and robotics lab, presentations to stakeholders at different organizational levels
- Organizing team building and social events, including group retreats
- Published 20 papers with 919 citations in total

PHD STUDENT, Computer Science

Nov 2017 – Feb 2022

- Researched and published papers at top conferences in the areas of computer vision, reinforcement learning, and self-supervised learning, etc.
- Supervised seminars, Bachelor and Master theses

SYMBIO ROBOTICS

INTERN, Andreessen Horowitz Internship Program

Summer 2019

- Developed computer vision algorithms for the rapid automation of manual tasks in automotive vehicle assembly
- Company wide final project presentation, publication of results in academic journal

RADBOD UNIVERSITY

RESEARCHER, Diagnostic Image Analysis Group

Oct 2016 – Oct 2017

- Researched computer vision algorithms for the automated assessment of Chronic Obstructive Pulmonary Disease (COPD) from CT scans in the context of medical screening
- Project conception for self-supervised learning of image diagnoses

UNIVERSITY OF CALIFORNIA BERKELEY

INTERN, Berkeley Artificial Intelligence Research Lab (BAIR)

Summer 2016

- Researched self-supervised pre-training for reinforcement learning at BAIR with Professor Trevor Darrell

MERCEDES-BENZ GROUP

INTERN & SOFTWARE ENGINEER, Visual Perception Group

Summer 2013

- Developed computer vision algorithms for 3D map reconstruction, optical flow and evaluated CNNs for vehicle detection at the visual perception group

GERMAN AEROSPACE CENTER

INTERN, Robotics and Mechatronics Center

Summer 2011

- Designed and implemented a grasp planner for the Justin and Hasy robots as well as physics simulation integrating Bullet Physics Engine with the OpenRave project

GOLDMAN SACHS

INTERN, Fixed Income Currency and Commodities (FICC)

Summer 2010

- Immersive internship focused on understanding all operational areas with a focus on smart order routing algorithmic trading systems

PIMCO

INTERN, PIMCO Germany

Summer 2009

- Conceived and implemented a system to parse and format risk report data into an email mailing list for effective distribution using Django and SQL