MAX ARGUS

CONTACT

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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: LMMs, 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 2017

- 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

RADBOUD 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 Darell

MERCEDES-BENZ GROUP

INTERN & SOFTWARE ENGINEER, Visual Perception Group — Summer 2012

- 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