Benjamin Alt

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Denjaminalt

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RELEVANT EXPERIENCE

AICOR Institute for Artificial Intelligence, University of Bremen

P Bremen, Germany

Technical Director

Apr 2025 - today

- · Develop an ecosystem for open-source cognitive robotics
- · Establish a deep and broad network of research and industry partners
- · Acquire funding for research and technology transfer
- · Coordinate technology transfer activities

ArtiMinds Robotics

♥ Karlsruhe, Germany

Senior Team Lead Research

Oct 2024 - Mar 2025

- Led a team of 7 full-time and student researchers
- Coordinated AI technology transfer in customer projects and commercial product development
- Established and expanding long-term research partnerships with >20 academic institutions and >15 industry partners
- Led 8 publicly funded research projects on cognitive robotics with >2M € of grant volume
- · Acquired >800k € of grant volume for 2 publicly funded research projects on advanced industrial robotics

Senior Research Scientist

Jan 2023 - Sep 2024

- Researched and published on scalable, interpretable artificial intelligence for industrial robots (8 conference papers)
- Acquired and realized 5 publicly funded research projects in excess of 1.4M € of grant volume
- · Conducted in-house consulting on AI methods, applications and technology transfer
- · Mentored and supervised 14 graduate and undergraduate students

Research Scientist Oct 2019 - Dec 2022

- Researched and published on semi-symbolic robot program inference with deep neural networks (5 conference papers, 2 book chapters)
- · Implemented and patented a commercial AI solution for the data-driven optimization of industrial production processes
- Acquired and realized 6 publicly funded research projects in excess of 1.5M € of grant volume
- Mentored and supervised 16 graduate and undergraduate students

EDUCATION

University of Bremen

P Bremen, Germany

Ph.D. Computer Science cum laude

2020 - 2025

- Dissertation: Neurosymbolic Robot Programming A Framework for Al-Enabled Programming of Robot Manipulation Tasks (% PDF)
- · Advisor: Prof. Michael Beetz, AICOR Institute for Artificial Intelligence

Karlsruhe Institute of Technology

♥ Karlsruhe, Germany

M.Sc. Computer Science

with distinction

2017 - 2019

- Thesis: Automatic Parameterization of Robot Programs via Learning of Neural Program Representations
- · Areas of Specialization: Robotics and Automation; Anthropomatics and Cognitive Systems
- · Merit scholarship of the German Acad. Scholarship Foundation (Studienstiftung des deutschen Volkes)

B.Sc. Computer Science

2015 - 2017

• Thesis: Machine Learning for Pose Optimization: An Integrated Framework for the Development and Monitoring of Adaptive Robot Programs

Institut d'Études Politiques de Paris (SciencesPo)

Reims, France

B.A. Political Science

summa cum laude

2012 - 2015

Reims, France

- · Areas of Specialization: Law, History, Economics
- · 2014-2015 at Princeton University with a focus on Mathematics & Computer Science

SELECTED PUBLICATIONS

2 book chapters, 1 journal article (peer reviewed), 15 conference papers (all peer reviewed), 2 workshop publications. Full list of publications: % benjaminalt.github.io/publications

SKILLS

Robotics Task and motion planning, force control, 3D visual perception, robot programming,

human-robot interaction, model predictive control, manipulation of deformable ob-

jects

Machine learning Deep learning, imitation learning, learning from demonstration, differentiable pro-

gramming, model-based optimization, interpretability, informed machine learning

Research management Grant acquisition, science communication, stakeholder management, technology

transfer, strategic planning

Leadership Team leadership, mentoring, talent acquisition

Programming languages Python (8 years of professional experience), C++ (3 years), Prolog (1 year), Java

Development tools Git, DVC, Jira, CMake, Jenkins CI

Frameworks PyTorch, NumPy, Keras, ROS, Qt

Karlsruhe, June 8, 2025

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