

SHRIYA BHATIJA

M.Sc. Mathematics at TU Munich | Software Engineering at Intrinsic (Alphabet Inc.)



Contact

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About me

I am a driven and motivated M.Sc. Mathematics student at TU Munich, specialising in Numerics, Stochastics, and Machine Learning. My studies have strengthened my ability to analytically approach complex problems, while my technical experiences provided me with domain-specific expertise. I work well in independent as well as collaborative work environments, and enjoy developing creative solutions to challenging tasks. I recently completed my Master's thesis during a research stay at the University of Cambridge, focusing on Causal Machine Learning. Currently, I am a Software Engineering Intern at Intrinsic, working on 6D Object Pose Estimation models.

Availability

Available for a full-time role starting in November 2025.

ACADEMICS

M.Sc. Mathematics

Graduate degree at the Technical University of Munich with an exchange semester at KTH in Stockholm and at the University of Cambridge.

10/2021-present	Technical University of Munich 📍 Munich, Germany <ul style="list-style-type: none">Grade: 1.5 (Distinction)Studies are focused on Stochastic Modelling and Numerical MathematicsMinor in Computer Science; specifically interested in Machine Learning
04/2024-12/2024	The University of Cambridge 📍 Cambridge, UK <ul style="list-style-type: none">Grade: 1.0 (Distinction)Master's thesis in the field of Causal Machine Learning, accepted at ICML
08/2022-01/2023	KTH Royal Institute of Technology 📍 Stockholm, Sweden <ul style="list-style-type: none">Grade: 1.5 (Distinction)Completed (project) courses worth 30 ECTS on various data science topics

B.Sc. Mathematics

Undergraduate degree at the University of Bonn, internationally known for its excellence in Mathematics.

10/2017-08/2021	University of Bonn 📍 Bonn, Germany <ul style="list-style-type: none">Grade: 2.3 (Good)Studies focused on Stochastics, Algebra and Representation TheoryMinor in Economics; specialised in Microeconomics
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Secondary Education

German high school degree with a special focus on musical education.

08/2015-07/2017	Stadtymnasium Cologne Porz 📍 Cologne, Germany <ul style="list-style-type: none">Grade: 1.3 (Distinction)Majored in Biology and MathematicsIntensive Music's program: weekly piano lessons, ensembles and concerts
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PROFESSIONAL EXPERIENCE

Intrinsic (Alphabet Inc.)

Software Engineering Intern in the field of computer vision at Intrinsic, a software and AI robotics company. 📍 Munich, Germany

05/2025-present	Software Engineering Intern Working on 6D Object Pose Estimation models
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The University of Tokyo

Research Intern in the field of NLP under Professor Naoki Yoshinaga at the Advanced Data Engineering Lab. 📍 Tokyo, Japan

10/2023-03/2024	Research Intern: NLP <ul style="list-style-type: none">Explored a new language task for indirect language understanding called <i>Inferring the underlying intent of indirect answers</i>Built a tool to efficiently extract, preprocess and annotate (polar question, indirect answer) pairs from X, formerly Twitter, data repositoriesDesigned and implemented language models for our indirect language understanding task using pre-trained models
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Coding expertise

Python - Strong proficiency in machine learning frameworks such as TensorFlow and PyTorch

C/C++ - Elementary proficiency

 [Github.com/ShriyaBhatija](https://github.com/ShriyaBhatija)

Languages


German - Mother tongue


Hindi - Mother tongue


English - Professional proficiency

Spanish - Intermediate proficiency

Personal Interests

 *Piano* - I have been playing the piano since my childhood and I still enjoy it as a creative outlet.

 *Running* - Recently, I have been enjoying running and just completed my first long-distance race.

 *Travelling* - But above all, I love experiencing new cultures and traditions. Currently, I am exploring Munich through a 35mm lens.

German Aerospace Center (DLR)

📍 Berlin, Germany

Intern in the field of computer vision at Germany's national center for aeronautics and space research.

02/2023-
06/2023

Research Intern: Computer Vision

- Explored attention-based neural networks for computer vision tasks (vision transformers such as the pre-trained Segmenter and SegViT) in a maritime context, specifically for semantic segmentation of ships on DLR-MACS data
- Experimented with extensive data fusion, transfer learning and fine-tuning approaches to improve model output and mIoU scores
- Established and implemented a framework of several benchmarks to evaluate the reliability and trustworthiness of these models as compared to traditional convolution-based architectures

PUBLICATION

Multi-Objective Causal Bayesian Optimization. S Bhatija, P D Zuercher, J Thumm, T Bohné. February 2025. Preprint (accepted at ICML 2025).

REFERENCES

Paul-David Zuercher, MSc, PhD (candidate). *Doctoral student at the Department of Engineering, University of Cambridge.*

Mr. Zuercher supervised my Master's thesis and his active mentorship guided me throughout my research. Contact him here: pdz20@cam.ac.uk

Prof. Dr. Peter Jung. *Researcher at TU Berlin and head of the SensorAI group at the OS-EDP department of the DLR.*

Professor Jung co-supervised me at the DLR and on many occasions his vast expertise inspired new directions for my work. Contact him here: Peter.Jung@dlr.de

More professional and academic references as well as certificates are available upon request.

Shriya Bhatija

Munich, May 8th 2025