TOMÁŠ KEREPECKÝ

PH.D. STUDENT, M.A. CANDIDATE, AI FREELANCER, AND NON-PROFIT & CHURCH LEADER.

CONTACT

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EDUCATION

2019 - PRESENT
CTU PRAGUE
- PhD - Computer Science

2018 - PRESENT
TCMI VIENNA
- Master of Arts

2015 - 2017
CTU PRAGUE
- Master of Science

SKILLS

- Leadership
- Communication
- Critical Thinking
- Motivation
- Artificial Intelligence
- Data Analysis
- Research

LANGUAGES

- Czech: Advanced
- English: Advanced (CAE)
- German: Elementary
- Hindi: Beginner

PROFILE

I am pursuing a PhD in Image Processing and AI at the Czech Academy of Sciences and an MA in Practical Theology and Leadership at TCM International Institute, Austria. My academic foundation is in Computational Physics (M.Sc.). As a freelance AI specialist, my focus is on Large Language Models. I was honored with the Fulbright-Masaryk award in 2022 for my research in the US. Beyond academia, I lead a non-profit Christian organization, planted church and have contributed as a missionary leader and educator in India.

WORK EXPERIENCE

Czech Academy of Sciences, CZ 2019 - PRESENT
PhD student
- Researched inverse problems in image processing and computer vision utilizing artificial intelligence; internship in the USA.
- Instructed students and the public in machine learning, AI, image processing, and optimization; formulated a curriculum for workshops.

Atleti v Akci (NPO), CZ 2015 - PRESENT
Executive Director
- Led a team of over 20 volunteers and organized more than 100 events to expand our organization's reach.
- Secured funding through grants and developed strong relationships with donors, partners, and engaged in public relations.

ELI Beamlines, CZ 2015 - 2018
Junior Researcher
- Conducted computer simulations related to x-ray sources.
- Taught courses on numerical methods.

Moreys Piers Waterparks, USA 2013 - 2013
Customer Service

SELECTED PUBLICATIONS

NeRD: Neural field-based Demosaicking
2023 IEEE International Conference on Image Processing

Dual-Cycle: Self-Supervised Dual-View Fluorescence Microscopy Image Reconstruction using CycleGAN
2023 IEEE International Conference on Acoustics, Speech and Signal Processing