

Mihai Fieraru | Curriculum Vitae

AI Research Scientist – Bucharest, Romania

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Summary

I am an AI Research Scientist. My Computer Vision expertise spans across both academia and industry, including research, large-scale data acquisition and managing data annotation teams.

Work Experience

Freelance

Research Scientist

Offering Research and Development services in the field of Computer Vision.

Bucharest, Romania

Mar 2024 – present

Google

Research Scientist

Hired via Adecco Romania and HCL Tech as a contractor. Working for the Perception Team in Google Research. Proposing methodology and implementing algorithms for photorealistic human synthesis, 3d scene editing, 3d human reconstruction, motion generation and retargeting. Working closely with the data collection and annotation team.

Bucharest, Romania

Oct 2021 – Dec 2023

Institute of Mathematics of the Romanian Academy

Research Assistant - Computer Vision

Pursuing research on visual perception of humans in images and video scenes. Proposing algorithms for reconstructing people in 3d. The methods were published in top conferences: CVPR'20, CVPR'21, AAAI'21, NeurIPS'21. Managing the annotation team and the data collection required to build these algorithms: I led the capturing of 3 mocap datasets and 2 image datasets and publicly released them at `ci3d.imar.ro`, `fit3d.imar.ro`, `sc3d.imar.ro`, with supporting code for data processing and evaluation.

Bucharest, Romania

Aug 2018 – Oct 2021

Max Planck Institute for Informatics

Student Research Assistant - Computer Vision

During my MSc thesis in the Computer Vision group, I worked on semi-supervised tracking of humans in unconstrained videos. After my thesis, I proposed an algorithm to refine human pose estimation predictions.

Saarbrücken, Germany

Jan 2017 – Apr 2018

Max Planck Institute for Informatics

Student Research Assistant - Machine Learning

As part of the Statistical Learning in Computational Biology group, I worked on the optimization of the dimensionality reduction with multiple kernel learning, with applications in cancer subtype discovery. Advisor: Prof. Dr. Nico Pfeifer

Saarbrücken, Germany

Sept – Nov 2016

DFKI

Student Research Assistant

As part of the Multimedia Analysis and Data Mining Group, I did research on image sentiment analysis with fine-tuning convnets. I also exposed the trained algorithms as web services for demo and production purposes. Supervisor: Dr. Damian Borth

Kaiserslautern, Germany

June 2015 – May 2016

Microsoft

Software Developer Engineer in Test - Intern

Working in the Skype Division, Identity Team. Performance testing RESTful APIs to evaluate their horizontal scalability. Participating in design and test reviews. Developing automated functional tests and improving the frameworks supporting their execution.

Prague, Czech Republic

June – Aug 2014


Education

Institute of Mathematics of the Romanian Academy

PhD Student - Computational Learning and Visual Perception Group

Bucharest, Romania

Nov 2018 - present


26.08.2025

Thesis: Human Sensing in Videos
Advisor: Prof. Dr. Cristian Sminchisescu

Saarland University

M.Sc. Computer Science

Masters student at the International Max Planck Research School for Computer Science

Main Focus: Computer Vision and Machine Learning

Thesis: Learning to Track Humans in Videos

Advisor: Prof. Dr. Bernt Schiele

Carnegie Mellon University

Exchange Student

One of two students at Jacobs Univ. selected to pursue an exchange semester in the School of Computer Science at Carnegie Mellon University. Courses: Machine Learning, Machine Learning for Text Analysis, Cloud Computing, Entrepreneurship for CS

Jacobs University Bremen

B.Sc. Computer Science

Thesis: Using Theory Graphs to Infer Concept Mastery in an Intelligent Tutoring System

Saarbrücken, Germany

Oct 2015 – Dec 2017

Pittsburgh, USA

Aug – Dec 2014

Bremen, Germany

Sept 2012 – June 2015

Summer Schools

PRAIRIE AI Summer School 2018 (Grenoble, FR); Transylvanian ML Summer School 2018 (Cluj, RO)

Publications

Mihai Fieraru, Mihai Zanfir, Elisabeta Oneata, Alin-Ionut Popa, Vlad Olaru, Cristian Sminchisescu. *Reconstructing Three-Dimensional Models of Interacting Humans*. (TPAMI'25).

Nikos Kolotouros, Thimo Alldieck, Andrei Zanfir, Eduard Gabriel Bazavan, **Mihai Fieraru**, Cristian Sminchisescu. *DreamHuman: Animatable 3D Avatars from Text*. (NeurIPS'23).

Mihai Fieraru, Mihai Zanfir, Teodor Alexandru Szente, Eduard Gabriel Bazavan, Vlad Olaru, Cristian Sminchisescu. *REMIPS: Physically Consistent 3D Reconstruction of Multiple Interacting People under Weak Supervision*. (NeurIPS'21).

Mihai Fieraru, Mihai Zanfir, Silviu-Cristian Pirlea, Vlad Olaru, Cristian Sminchisescu. *AlFit: Automatic 3D Human-Interpretable Feedback Models for Fitness Training*. (CVPR'21).

Mihai Fieraru, Mihai Zanfir, Elisabeta Oneata, Alin-Ionut Popa, Vlad Olaru, Cristian Sminchisescu. *Learning Complex 3D Human Self-Contact*. (AAAI'21).

Mihai Fieraru, Mihai Zanfir, Elisabeta Oneata, Alin-Ionut Popa, Vlad Olaru, Cristian Sminchisescu. *Three-Dimensional Reconstruction of Human Interactions*. (CVPR'20).

Mihai Fieraru, Anna Khoreva, Leonid Pischulin, Bernt Schiele. *Learning to Refine Human Pose Estimation*. (CVPRW'18).

Awards

2015-2017: Scholarship and membership at the Intl. Max Planck Research School for Computer Science

2014: Study Abroad Scholarship offered by Jacobs Univ. in order to study at Carnegie Mellon University

2013: President's List distinction for academic excellence, Jacobs University Bremen

2009: Bronze Medal, National Mathematics Olympiad, Romania

Technical skills

Programming Languages

- o Good Level - Python, Matlab
- o Basic Level - C++, PHP

Others

- o Frameworks - TensorFlow, JAX, PyTorch, Open CV, Drupal



26.08.2025

Communication Skills

English (fluent), **Romanian** (Mother Tongue), **French** (Intermediate), **German** (Intermediate)

K. Fin.

26.08.2025