

Nuri Benbarka

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ABOUT ME

As an aspiring *machine learning* and *mobile robotics* enthusiast, I am passionate about exploring the latest technological advancements, and my love for teaching and nurturing students drives me to share my knowledge and expertise in these fields.

EDUCATION

UNIVERSITY OF TÜBINGEN

PH.D. IN COMPUTER SCIENCE

Mar 2023 | Germany

A grade of 1.0

UDACITY

D.S. & ALGORITHMS N.D.

Nov 2023 | Online

SENSOR FUSION N.D.

Mar 2020 | Online

UNIVERSITY OF LEEDS

M.Sc. IN MECHATRONICS AND ROBOTICS

Sep 2016 | UK

First-class honors

GPA: 3.98 / 4.0

UNIVERSITY OF TRIPOLI

B.Sc. IN ELECTRICAL ENG.

Dec 2012 | Libya

GPA: 84.39%

LINKS

LinkedIn:// [Nuri-Benbarka](#)

GitHub:// [Nuri-Benbarka](#)

Scholar:// [Nuri Benbarka](#)

YouTube:// [@nuribenbarka](#)

Facebook:// [Nuri.Benbarka](#)

SKILLS

Python • Pytorch • ROS • OpenCV

C++ • Matlab • \LaTeX • Assembly

Arduino • Solidworks • LabVIEW

LANGUAGES

Arabic: **Native**

English: **Full Professional**

German: **Limited working**

Japanese: **Elementary**

EXPERIENCE

UNIVERSITY OF TRIPOLI | LECTURER

Oct 2022 – Present | Tripoli, Libya

- Give lectures (**list of recordings**), supervise lab courses and final-year projects.
- One of the main organizers of the **Libyan Collegiate Programming Contest (LCPC)**
- Helped structring the curriculum of the AI section in **International Polytechnic College**, Tripoli.

UNIVERSITY OF TÜBINGEN | PH.D. CANDIDATE

Sep 2018 - Sep 2022 | Tübingen, Germany

Thesis: "*Instance Segmentation and 3D Multi-Object Tracking for Autonomous Driving.*"

Supervised by: Prof. *Andreas Zell*

- Research on the topics of Computer vision and Autonomous driving.
- Give tutorials, Invigilate exams, mark homework assignments, and supervise oral exams and final projects of B.Sc. students.

UNIVERSITY OF TRIPOLI | LECTURER

Jan 2017 – Sep 2018 | Tripoli, Libya

- Give lectures, supervise lab courses and final projects of B.Sc. students.
- Make the timetable of the department's lectures and exams.

UNIVERSITY OF TRIPOLI | TEACHING AND RESEARCH ASSISTANT

Oct 2013 – Oct 2014 | Tripoli, Libya

- Give tutorials, Invigilate exams, mark homework assignments.
- Work in the project "Libyan Vehicle License Plate Recognition System."
- Coach students to participate in Arab ACM programming contest.

TEACHING EXPERIENCE

Introduction to Programming	SS2023 , WS2022 , SS2017 , WS2017 , WS2013
Introduction to Robotics	WS2020 , SS2018
Mobile Robotics	SS2020 , SS2019 WS = Winter semester
Mobile Robotics Practical	SS2021 , WS2019 SS = Summer semester
Introduction to Digital systems	WS2018 , SS2018 , SS2014 as Lecturer

AWARDS

2021	International	Winner of the NuScenes tracking challenge
2019	National	D.A.A.D. scholarship for doctoral programs in Germany
2017	National	Got 2 nd in the Almadar-aljadid technological competition
2015	National	Libyan government scholarship for master programs
2013	3 rd /15	Google startup weekend competition

SELECTED PUBLICATIONS

- [1] N. **Benbarka**, T. Höfer, A. Zell, *et al.*, "Seeing Implicit Neural Representations as Fourier Series," *Winter Conference on Applications of Computer Vision (WACV)*, 2022.
- [2] N. **Benbarka**, J. Schröder, and A. Zell, "Score refinement for confidence-based 3D multi-object tracking," *2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2021.

