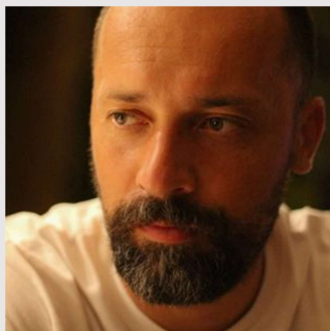


Short Curriculum Vitae



Assoc. prof. dr. sc. Alan Ćatović

Contact

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Languages

Bosnian/Serbian/Croatian (native)
English (advanced)
German (intermediate)
Slovenian (intermediate)

Research

Google Scholar profile:

<https://scholar.google.com/citations?user=UwRuGjEAAA&hl=en>

Summary

Educator, specializing in **Defense technologies** (ammunition design, warhead mechanics, terminal ballistics), numerical simulations, optics, as well as amateur astronomy.

Experience

Education of students: period from 2003 to 2024

Topics (Mechanical Engineering Faculty, University in Sarajevo):

- Physics I & II, Programming & graphics, Ammunition, Ballistic measurements, Armour protection, Integration of ammunition, Fuzes, High-energetic materials, Tactical warheads, Computer modeling in ballistics, Terminal ballistics, Forensic ballistics, HE projectiles, Armour-piercing projectiles, Basics of ballistics, Optical devices.

Education

Dr. Sc.: **Mechanical Engineering Faculty, University in Sarajevo**, Bosnia and Herzegovina. **Scientific topics involved:** aerodynamics, flight dynamics, CFD, CAD, terminal ballistics, programming, ammunition testing.

Mr. Sc.: **Mechanical Engineering Faculty, University in Sarajevo**, Bosnia and Herzegovina. **Scientific topics involved:** high-explosive warhead design, terminal ballistics, numerical methods, CAD, probability theory.

Dipl. Ing. Mech. Eng.: **Mechanical Engineering Faculty, University in Sarajevo**, Bosnia and Herzegovina. **Scientific topic involved:** armour-piercing projectiles, warhead mechanics.

University books

- Kljuno E., Ćatović A.: **Dynamics of irregularly shaped bodies**, University of Sarajevo, Sarajevo, 2020.

Computer skills

MS Office, CAD (Mechanical Desktop/AutoCAD), MatLab, Ansys (Fluent, Autodyn, Explicit Dynamics), Lab View, EXPLO5, Photoshop/Fireworks, Astronomy (spectroscopy, astrometry, photometry) and astrophotography software (Pixinsight, DSS, Registax, Nebulosity, Autostakkert).

Other activities

Journal editor: "Defense and Security Studies", Editor In-Chief, <https://journals.ardascience.com/index.php/dss/index>

Amateur astronomy: written 2 popular-science books ("Our Universe", 2017) and "Alchemists of the Universe", 2018), TDP Publishing, Sarajevo. Public outreach in astronomy; spectroscopy; photometry; astrometry; exoplanet detection; deep space and solar system astrophotography, narrowband and solar (H-alpha) imaging, DIY astro-projects.