

## PERSONAL INFORMATION

**Anastasios Natsakis**

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🌐 [www.natsakis.com](http://www.natsakis.com)

Gender Male | Date of birth 30 May 1985 | Nationality Greek

## PROFESSIONAL EXPERIENCE

September 2016 - present

**Teaching assistant/Assistant/Associate Professor**

Technical University of Cluj-Napoca

Responsible for courses:

- Human Robot Interaction (English, Master)
- Robot Control Systems (English, Bachelor)
- CNC programming (Romanian, Bachelor)
- Integrated Fabrication Systems (Romanian, Bachelor)

December 2022 - present

**Researcher**

dotLumen SRL

Researching feedback mechanisms for machine interfaces with persons with vision impairments

October 2010 - May 2016

**Researcher**

Biomechanics Section, KU Leuven, Leuven (Belgium)

- Development of a unique experimental set-up for in-vitro gait analysis;
- Mentoring bachelor and master students
- Author and co-author of seven peer-reviewed scientific articles published in prestigious journals;

May 2010 - October 2010

**Research assistant**

Laboratory of Machine Dynamics, Aristotle University of Thessaloniki, Thessaloniki, (Greece)

Comparing the results of various finite elements solvers on the dynamic behaviour of non-linear mechanical structures. Tested solvers:

- Dynamis, non-linear FE solver developed in the laboratory
- Nastran, standard industrial FE solver

## RESEARCH PROJECTS

November 2023 - present

**SeaGrip**

Technical University of Cluj-Napoca

Research project PI:

- <http://rocon.utcluj.ro/seaclear2-support>
- Awarding Participation to Horizon Europe - Institutes, national funding scheme (UEFISCDI)
- Project budget: 60,500 EUR

**September 2020 - August 2022 TRUE REHAB**

Technical University of Cluj-Napoca

Research project PI:

- <http://rocon.utcluj.ro/true-rehab>
- Young Teams type, national funding scheme (UEFISCDI)
- Project budget: 86,000 EUR

**May 2018 - June 2020 BETER REHAB**

Technical University of Cluj-Napoca

Research project PI:

- <http://rocon.utcluj.ro/beter-rehab>
- Post-doctoral project, national funding scheme (UEFISCDI)
- Project budget: 60,000 EUR

**January 2020 - Present SEACLEAR and SEACLEAR2.0**

Technical University of Cluj-Napoca

Research project member:

- <https://seaclear2.eu>
- Horizon 2020 and Horizon Europe projects
- Combined project budget: 13MEUR (1.1 MEUR for UTCN)
- Dissemination responsible for SEACLEAR
- Heavy-lift grapple design, implementation, and control for SEACLEAR2.0

**EDUCATION****2010-2015 PhD**

KU Leuven, Leuven, Belgium

Thesis title In-vitro analysis of dynamic foot biomechanics using a gait simulator and intra-articular pressure measurements

- Specialization
- Biomechanics
  - Data analysis
  - Experimental design
  - Complex systems control
  - Signal conditioning

**2003-2010 Bachelor-Master**

Aristotle University of Thessaloniki, Thessaloniki (Greece)

Thesis title Stress calculation and sensitivity analysis in changes of parameters in diesel particulate filters during the regeneration phase

- Specialization
- Structure dynamics
  - Automatic control
  - Finite Element Methods

**PROFESSIONAL INVOLVEMENT****2020-present** Member of European Society for Engineering Education ([www.sefi.be](http://www.sefi.be))**2022-present** Member of IEEE ([www.ieee.org](http://www.ieee.org)), Robotics and Automation Society ([www.ieee-ras.org](http://www.ieee-ras.org)), and Engineering and Biomechanics in Medicine Society ([www.embs.org](http://www.embs.org))**2025-present** Member of the Open Source Robotics Alliance ([www.osralliance.org](http://www.osralliance.org))

PERSONAL SKILLS

Mother tongue Greek

| Other languages | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|-----------------|---------------|---------|--------------------|-------------------|---------|
|                 | Listening     | Reading | Spoken interaction | Spoken production |         |
| English         | C2            | C2      | C2                 | C2                | C2      |
| Romanian        | C1            | C1      | C1                 | C1                | C1      |
| Dutch           | B1            | B1      | B1                 | B1                | B1      |
| German          | B1            | B1      | A2                 | A2                | A2      |
| Japanese        | A1            | A1      | A1                 | A1                | A1      |

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills**

- Toastmasters club members for 5 years. Competent communicator and competent leader certificates obtained ([www.toastmasters.com](http://www.toastmasters.com))
- Participation in various training sessions on presentation skills, training development and delivery on soft skills.

**Organisational/Management skills**

- Founder of the 'Research in Cluj' community, for the development and communication among researchers in Cluj-Napoca
- Vice-president of BEST, responsible for coordinating the international external services of the organisation, which consists of more than 2000 members all over Europe ([www.best.eu.org](http://www.best.eu.org))
- Co-funder and co-organiser of ABC, an international annual event on entrepreneurship, dedicated for Alumni members of BEST ([www.alumnibusinescamp.net](http://www.alumnibusinescamp.net))
- Member of the project for the formation of engineers in DR Congo. Coordinating the training activities before and during a visit on two universities of Kinshasa, DR. Congo

**Work related and technical skills**

- Scientific articles writing
- Research projects writing and management
- Student mentoring
- Advanced Linux user
- Advanced experience with scientific programming languages (e.g. Python, R, C++, MATLAB)
- Advanced experience with signal acquisition and control (e.g. LabVIEW)

Driving license B

Military service Completed

SUPPLEMENTARY INFORMATION

**Publications (selection)**

- *Robot Control Systems: A practical guide to robotics and control*, UTPress, (2025)
- *The role of medial ligaments and tibialis posterior in stabilising the medial longitudinal foot arch: a cadaveric gait simulator study*, Foot and Ankle Surgery, (2022)
- *ROS-based Toolbox for Motor Parameter Identification of Robotic Manipulators*, ICONS, 2022
- *Augmented Ligament Reconstruction Partially Restores Hindfoot and Midfoot Kinematics After Lateral Ligament Ruptures*, American Journal of Sports Medicine, (2019)
- *Predicting Intention of Motion During Rehabilitation Tasks of the Upper-Extremity*, EMBC, 2021
- *Extrinsic muscle forces affect ankle loading before and after total ankle arthroplasty*, Clinical Orthopaedics and Related Research, (2015)
- *Inertial control as a novel technique for in vitro gait simulations*, Journal of Biomechanics, (2015)