

PERSONAL INFORMATION



Anastasios Natsakis

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

CANDIDATE POSITION

Conferențiar, poziția 29

PROFESSIONAL EXPERIENCE

September 2016 - present

Teaching assistant/Assistant 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)

2021-present Member of IEEE (www.ieee.org), Robotics and Automation Society (www.ieee-ras.org), and Engineering and Biomechanics in Medicine Society (www.embs.org)

2025-present Member of the Open Source Robotics Alliance (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)
- 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)
- Co-funder and co-organiser of ABC, an international annual event on entrepreneurship, dedicated for Alumni members of BEST (www.alumnibusinesscamp.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
- Administration
- 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)