

Dimitrios A. Patikas (Ph.D.)

*Assistant Professor at the Department of Physical Education and Sport Science (Serres),
Aristotle University of Thessaloniki*

Studies

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|------------------|---|------------------------------------|
| 1992-1996 | Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science <ul style="list-style-type: none">▪ Studies for Bachelor's degree.▪ Specialization: Swimming▪ Grade: 6.77 / 8.00▪ Thesis: "The influence of physical activity on the nerve motor conduction velocity" (Grade: 'excellent').▪ Graduated on the 07.24.1996 | <u>Thessaloniki, Greece</u> |
| 1996-1998 | Democritus University of Thrace
Dept. of Physical Education and Sport Science <ul style="list-style-type: none">▪ Postgraduate Studies for the Master's degree.▪ Specialization: Coaching & Exercise Physiology.▪ Grade: 8.83 / 10.00▪ Thesis: "Changes of the level of presynaptic inhibition of the soleus Ia afferents during a maximal isometric contraction" (Grade: 'excellent').▪ Graduated on the 31.06.1998 | <u>Komotini, Greece</u> |
| 1998-2002 | Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science <ul style="list-style-type: none">▪ Postgraduate Studies for the Ph.D. degree.▪ Specialization: Neuromuscular Control.▪ Thesis: "The mechanism of presynaptic inhibition during a sustained submaximal contraction" (Grade: 'excellent'). | <u>Thessaloniki, Greece</u> |

Job Positions

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|-------------------------------|---|--|
| Nov 1998-
Oct 1999 | Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science <ul style="list-style-type: none">▪ Teacher in the field of "Neuromuscular Control and Training" for undergraduate students.▪ Teacher in the field of Statistics using SPSS for post-graduate students.▪ Swimming teacher for undergraduate students. | |
| Apr 2002-
Oct 2006 | Stiftung Orthopädische Universitätsklinik, Heidelberg
Department Orthopädie, Unfallchirurgie und Paraplegiologie <ul style="list-style-type: none">▪ Research assistant in the motion analysis laboratory under the supervision of Dr. med. | |

Döderlein.

- Nov 2006-
Jun 2010** **Prefecture of Thessaloniki
Department of Education-Sports and Tourism-Culture**
- Administrative employee
- Jun 2010-** **Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science at Serres**
- Faculty member in the field of Neuromuscular Adaptations during Training.
- Jan 2013-** **SeegartenKlinik, Heidelberg, Germany
Dept. of maxillo dental surgery**
- Research assistant

Teaching experience

- Nov 1998-
Aug 1999** **Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science**
- Lecturer 6 hours/week for
 - Neuromuscular control (undergraduate)
 - Swimming (undergraduate)
 - Statistics using SPSS (post-graduate)
- Nov 2006-
Jun 2010** **Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science**
- Research assistant
 - Assistant for post-graduate students.
 - Lecturer for undergraduate students: Neuromuscular control and strength evaluation
 - Lecturer for post-graduate students: Special issues for physical activity
- Feb 2009** **Democritus University of Thrace
Dept. of Physical Education and Sport Science**
- Lectures for post-graduate students
- Jun 2010-** **Aristotle University of Thessaloniki
Dept. of Physical Education and Sport Science at Serres**
- Lecturer for undergraduate students
 - Exercise and rehabilitation of neuromuscular disorders (2010-)
 - Balance analysis (2010-)
 - Gait analysis (2010-)
 - Strength and power evaluation and analysis (2011-)
 - Swimming I (2010-)
 - Swimming II (2010-)
 - Exercise in elderly population (2011-2012)
 - Lectures in post-graduate classes
 - Neuromuscular adaptations and control of training (2010-2012)
 - Applied sport biomechanics (2010-2012)
 - Statistics (2011-)
 - Kinesiology and adapted physical activity issues (2011-2012)

Sep 2012-
Mar 2013 **Aristotle University of Thessaloniki**
Dept. of Physical Education and Sport Science at Serres

- Lecturer for post-graduate students
- Neuromuscular adaptations and control of training

Summary of Publications

2 book chapters (2 international publishers)
60 peer-reviewed papers (57 international)
3 publications as single author (3 international)
15 publications as 1st author (13 international)
16 publications as 2nd author (15 international)
12 publications as 3rd author (12 international)
7 publications as last author (7 international)
130 congress abstracts (64 international)
83.5 total impact factor
1.5 mean impact factor per publication

PubMed articles: 42 | average I.F.: 2.418

Scopus publications: 56 | average I.F.=1.837
references: 706 (h=15) | non-self cited references: 612 (h=14)

ResearchGate Score: 31.05 (top 87.5%) | h=16 (non-self cited)

Google Scholar references: 1342 | h=20 | i10=27

Mendeley visits: 26161 | readers: 1746 | references: 698

Languages

- English**
- First Certificate in English. University of Cambridge (June 1990).
 - Test Of English as a Foreign Language (TOEFL) (June 1998).
 - Graduate Record Examinations (GRE) (September 1998).
- German**
- Zeugnis Zentrale Mittelstufenprüfung (M III) from the Goethe Institut (May 1996).
- French**
- High-school level knowledge (June 1992).
- Greek**
- Native Language.

Nominations

- 2nd price award (3.000 € sponsored by Masterfoods™) during the 7th Annual Congress of the European College of Sport Science (Athens, Greece, 2002) for the poster presentation: Investigation of spinal mechanisms during a sustained submaximal muscle contraction, by **Patikas D.** and Kotzamanidis C.
- Nomination of the gaitlab research group in Orthopaedic Clinic of Heidelberg (Wolf S., Patikas D., Simon J., Gerner H.J., Döderlein L.) for the scientific contribution with 5 publications during 2006.

Additional – Special Knowledge

- Reviewer in international scientific journals

- Anatomy Research International
 - Gait & Posture
 - International Journal of Sport Medicine
 - Inquiries in Sport & Physical Education
 - Journal of Sport Science
 - Knee Surgery, Sports Traumatology, Arthroscopy
 - Medicine and Science in Sports and Exercise
 - Muscle and Nerve
 - Pediatric Exercise Science
 - Research in Developmental Disabilities
 - Journal of Athletic Enhancement
 - SAGE Open
- Participation in the scientific committee of the following congresses
 - European Society of Movement Analysis for Adults and Children at the 16th Annual Meeting of ESMAC, Athens Greece 2007
 - 5th Congress of the Hellenic Society of Biomechanics, Thessaloniki, 2012
 - Experienced applying the following methods investigating the central nervous system and the muscle:
 - Electromyography (EMG): fine-wire and surface
 - Electroencephalography (EEG)
 - Somatosensory evoked potentials (SEP)
 - Transcranial magnetic stimulation (TMS)
 - Transcranial electrical stimulation (TES)
 - Electrical nerve stimulation (H-reflex, M-wave, F-wave, V-wave)
 - Electrical muscle stimulation
 - Expert in 3D movement analysis, experienced in modeling and kinematic and podographic capturing.
 - Expert in dynamometry (isokinetic, isometric etc.).
 - Familiar with oxygen consumption measurement.
 - Advisor – instructor for post-graduate students concerning their research projects.
 - Current research projects:
 - Age effect on the EMG during fatigue
 - Post-activation potentiation and reflexes
 - Development of the isokinetic force and EMG at different ages
 - Neuromuscular mechanisms in jumping performance in children
 - Balance and tendon vibration
 - Gait analysis and obstacle clearance
 - Neuromuscular mechanisms of spasticity and the effect of training
 - Fatigability of patients with multiple sclerosis and the effect of training
 - Excellent computer user concerning text processing, database analysis, creating slide / poster presentations and organization charts and trees / flowcharts / diagrams (Word, Excel, Access, Powerpoint, Visio, Micrografx, SmartDraw etc.).
 - Extensive programming experience using Matlab and Mathcad for data processing and visualization.
 - Novice experience in programming with Labview.
 - Experienced in creating Internet related applications using HTML, Flash, Java, etc.
 - Basic knowledge in programming with Visual Basic and C++.

- User of statistical analysis software programs, such as, SPSS, Statistica, Prism, Plot-it, S-plus, R.
- Familiar with Unix and Linux environments.
- Experienced in picture formatting, and graphic creation, using various software programs such as Photoshop, Paintshop Pro, Photopaint, CorelDraw etc.
- Basic knowledge in computer hardware (installing peripherals, making upgrades, building fundamental networks, etc.) and administrative services.

Fields of interest

- Investigation of the central nervous system response during different conditions, such as:
 - static/dynamic contractions – locomotion – balance
 - fatigue – recovery
 - training – detraining
 - sport injuries
 - development – ageing
 - neuromuscular diseases
- Internet and multimedia applications concerning physical education.
- Programming of software applications for sports and clinical usage.

Serres, 22.10.2017