

Olivier R. Seynnes

Date of birth: 05/05/1975, nationality: French
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PROFILE

Neuromuscular and tendinous function and adaptations to exercise, disuse and ageing.

EDUCATION

- **Doctorat (PhD)** in Human movement sciences, Ecole Doctorale des Sciences de la Vie et de la Santé, Université d'Aix-Marseille II, France, 2003 with honours.
- **Diplôme Universitaire (post-graduate diploma)** in Gerontology, Faculté de Médecine de L'Université de Nice-Sophia-Antipolis, France, 2003, with honours.
- **D.E.A. (MSc by research)** in Human movement sciences, Ecole Doctorale des Sciences de la Vie et de la Santé, Université d'Aix-Marseille II, France, 2000 with honours.
- **Maîtrise (MSc by teaching)** in Sciences and Techniques of Physical Activities and Sports, Université de Nice-Sophia-Antipolis, 1999 with honours.
- **Licence (BSc)** in Sciences and Techniques of Physical Activities and Sports, Université de Nice-Sophia-Antipolis, 1998 with honours.

TEACHING AND ADMINISTRATION EXPERIENCE

CURRENT ACADEMIC APPOINTMENT: Professor, Norwegian School of Sport Sciences. (2013-)

1. PREVIOUS ACADEMIC APPOINTMENTS:

- **Associate professor** (1. Amanuensis), Norwegian School of Sport Sciences. (2011-2013)
- **Research Fellow**, Institute for Biomedical Research into Human Movement and Health, Manchester Metropolitan University. (2009-2011)
- **Research Associate**, Institute for Biomedical Research into Human Movement and Health, Manchester Metropolitan University. (2004-2009)
- **Research and Teaching Associate**, Laboratoire Physiologie des Adaptations, Performance Motrice et Santé at the Faculty of Sport Sciences, University of Nice-Sophia-Antipolis. (2003-2004)

2. TEACHING

- **Postgraduate students supervision** (List available on demand):
 - 8 students at PhD level in main- or co-supervision to completion
 - Over 30 MSc student supervisions
- **Academic teaching** (List available on demand):
 - **Teaching at all levels from undergraduate to PhD**, for over 20 years
 - **Teaching topics** include tissue biomechanics, research methods, exercise physiology, introduction to neurophysiology, physiology of ageing, and anatomy.

3. EXPERIENCE IN A CLINICAL SETTING:

Technical consultant, Geriatric Rehabilitation Department, Hôpital Cimiez (Nice, France). (2003)

4. MAIN RESPONSIBILITIES AND ADMINISTRATIVE ACTIVITIES

1. **Coordinator of the master programme** at the institute for physical performance (2022-present)
2. **Responsible for the muscle function laboratory** (2018-present)

3. **Coordinator** of the courses “Exercise Biology and Sport Performance Analysis II” (MSc, 2022-present), “Specialisation in Biomechanics” (MSc, 2012-2022), “Experimental projects” (BSc, 2017-2023) and “Neurophysiological basis of movement” (BSc, 2013-2017).
4. **Academic examinations** (List available on demand)
 - 15 Ph.D. theses (Liverpool John Moores University, Nantes Université, Ruhr University Bochum, German Sport University Cologne, University of Copenhagen, French National Institute of Sport, University of Paris Descartes, University of Queensland, University College Dublin, Norwegian School of Sport Sciences, University of Loughborough, University of Rouen, Manchester Metropolitan University).
 - PhD projects, from 2016 to present, at the Norwegian School of Sport Sciences.
 - Professional academic competence and promotions (List available on demand).
5. **Conference organisation**
Member of the organisation committee for the 8th International Conference on Strength Training (ICST 2012) in Oslo, Norway.
6. **Member** of the Scientific Committee of the European College of Sport Sciences. (2016-present)
7. **Fellow of the European College of Sport Science (FECSS)**
8. **Member** of the Scientific Committee of the International Society of Biomechanics. (2023)

5. RESEARCH METHODS AND TECHNIQUES:

1. In vivo study of muscle architecture and tendon mechanical properties, with the use of B mode and shear wave ultrasound, magnetic resonance imaging and dynamometry.
2. Study of spinal plasticity with neural electrical stimulation, with the use of surface EMG (bipolar and array), measurements of M wave, Hoffman reflex and Volitional wave.
3. Study of physiological and functional deficits with ageing and immobilisation (clinical/functional testing)
4. Expertise in scientific image processing and analysis (Alumnus from Centre for Molecular and Cellular Imaging, European Molecular Biology Laboratory, Heidelberg, Germany, 2011)
5. Programming languages: Python and ImageJ macro programming
6. Qualified phlebotomist

PUBLICATIONS & COMMUNICATIONS (CURRENT GOOGLE SCHOLAR H-INDEX: 41)

1. OVER 90 PUBLICATIONS IN PEER-REVIEWED JOURNALS:

https://pubmed.ncbi.nlm.nih.gov/?term=seynnes&show_snippets=off&sort=date

2. BOOK (EDITOR AND WRITER):

1. Jeandel C, Bernard PL, Seynnes O. *Aptitude Physique, Santé et Vieillesse*. Sauramps Médical, 2004, p.306 [French]

4. EDITORIAL ACTIVITIES

- **Section Editor** for the Scandinavian Journal of Applied Physiology. (2024-present).
- **Handling Editor** for the European Journal of Applied Physiology. (2013-present)
- Advisory Editor for the European Journal of Applied Physiology. (2010-2013)
- Guest Associate Editor in Exercise Physiology for Frontiers Physiology. (2018-2020)
- Invited reviewer for over 20 peer-reviewed journals (list available on demand)

5. INVITED COMMUNICATIONS IN SCIENTIFIC SYMPOSIA AND CONGRESSES (25 invitations+, list available on demand)

6. OVER 60 COMMUNICATIONS IN SCIENTIFIC CONGRESSES (LIST AVAILABLE ON DEMAND)